TABLES

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Table D.1. Comparison between Undetected Analyte's Maximum SQLs and Site-Specific Soil Screening Levels[a]

Analyte	Frequency of Detection[b]	Maximum SQL	No Action Screening Value[c]	Screening Value Exceeded?	Units
Inorganic Compounds					
Antimony	320/342	2.6	0.552	No	mg/kg
Arsenic	1620/3614	11	0.238	Yes	mg/kg
Cadmium	330/341	0.32	0.811	No	mg/kg
Chromium	1676/3614	85	15.6	No	mg/kg
Copper	885/3614	35	184	No	mg/kg
Lead	3331/3614	13	400	Yes	mg/kg
Manganese	3562/3614	85	419	No	mg/kg
Mercury	403/3614	10	0.213	Yes	mg/kg
Molybdenum	364/3614	15	23	No	mg/kg
Nickel	1195/3614	65	10.4	Yes	mg/kg
Selenium	368/3614	20	23	No	mg/kg
Silver	540/3614	10	2.61	Yes	mg/kg
Sodium	340/341	130	n/a	n/a	mg/kg
Thallium	293/341	1.3	0.368	No	mg/kg
Uranium	1352/3930	20	13.8	Yes	mg/kg
Zinc	3603/3614	69.7	1380	No	mg/kg
PCBs					
PCB, Total	102/3035	67	0.0648	Yes	mg/kg
Organics					
1,2,4-Trichlorobenzene	0/272	0.49	n/a	n/a	mg/kg
1,2-Dichlorobenzene	0/272	0.49	n/a	n/a	mg/kg
1,3-Dichlorobenzene	0/272	0.49	n/a	n/a	mg/kg
1,4-Dichlorobenzene	0/272	0.49	n/a	n/a	mg/kg
2,4,5-Trichlorophenol	0/272	0.49	n/a	n/a	mg/kg
2,4,6-Trichlorophenol	0/272	0.49	n/a	n/a	mg/kg
2,4-Dichlorophenol	0/272	0.49	n/a	n/a	mg/kg
2,4-Dimethylphenol	0/272	0.49	n/a	n/a	mg/kg
2,4-Dinitrophenol	0/272	2.4	n/a	n/a	mg/kg
2,4-Dinitrotoluene	0/272	0.49	n/a	n/a	mg/kg
2,6-Dinitrotoluene	0/272	0.49	n/a	n/a	mg/kg
2-Chloronaphthalene	0/272	0.49	n/a	n/a	mg/kg
2-Chlorophenol	0/272	0.49	n/a	n/a	mg/kg
2-Methyl-4,6-dinitrophenol	0/272	2.4	n/a	n/a	mg/kg
2-Methylnaphthalene	5/272	0.49	n/a	n/a	mg/kg
2-Methylphenol	0/272	0.49	n/a	n/a	mg/kg
2-Nitrobenzenamine	0/272	2.4	0.296	Yes	mg/kg
2-Nitrophenol	0/272	0.49	n/a	n/a	mg/kg
3,3'-Dichlorobenzidine	0/272	2.4	n/a	n/a	mg/kg
3-Nitrobenzenamine	0/272	2.4	n/a	n/a	mg/kg
4-Bromophenyl phenyl ether	0/272	0.49	n/a	n/a	mg/kg
4-Chloro-3-methylphenol	0/272	0.49	n/a	n/a	mg/kg
4-Chlorobenzenamine	0/272	0.49	n/a	n/a	mg/kg
4-Chlorophenyl phenyl ether	0/272	0.49	n/a	n/a	mg/kg
4-Nitrophenol	0/272	2.4	n/a	n/a	mg/kg
Acenaphthene	21/272	0.49	117	No	mg/kg
Acenaphthylene	5/272	0.49	n/a	n/a	mg/kg
Anthracene	32/272	0.49	747	No	mg/kg

Table D.1. Comparison between Undetected Analyte's Maximum SQLs and Site-Specific Soil Screening Levels (Continued)

Analyte	Frequency of Detection[b]	Maximum SQL	No Action Screening Value[c]	Screening Value Exceeded?	Units
Benzenemethanol	3/272	0.49	n/a	n/a	mg/kg
Benzo(ghi)perylene	60/272	0.49	n/a	n/a	mg/kg
Benzoic acid	9/272	2.4	n/a	n/a	mg/kg
Bis(2-chloroethoxy)methane	0/272	0.49	n/a	n/a	mg/kg
Bis(2-chloroethyl) ether	0/272	0.0097	n/a	n/a	mg/kg
Bis(2-chloroisopropyl) ether	0/272	0.49	n/a	n/a	mg/kg
Bis(2-ethylhexyl)phthalate	50/273	2.1	n/a	n/a	mg/kg
Butyl benzyl phthalate	3/272	0.49	n/a	n/a	mg/kg
Dibenzofuran	11/272	0.49	n/a	n/a	mg/kg
Diethyl phthalate	0/272	0.49	n/a	n/a	mg/kg
Dimethyl phthalate	0/272	0.49	n/a	n/a	mg/kg
Di-n-butyl phthalate	5/272	0.49	n/a	n/a	mg/kg
Di-n-octylphthalate	1/272	0.49	n/a	n/a	mg/kg
Fluoranthene	95/272	0.49	109	No	mg/kg
Fluorine	18/272	0.49	91.5	No	mg/kg
Hexachlorobenzene	0/272	0.49	0.0492	Yes	mg/kg
Hexachlorobutadiene	0/272	0.49	n/a	n/a	mg/kg
Hexachlorocyclopentadiene	0/272	2.4	n/a	n/a	mg/kg
Hexachloroethane	0/272	0.49	n/a	n/a	mg/kg
Isophorone	0/272	0.49	n/a	n/a	mg/kg
m,p-Cresol	0/272	0.97	n/a	n/a	mg/kg
Naphthalene	7/272	0.49	1.15	No	mg/kg
Nitrobenzene	0/272	2.4	n/a	n/a	mg/kg
N-Nitroso-di-n-propylamine	0/272	0.0097	0.0189	No	mg/kg
N-Nitrosodiphenylamine	0/272	0.49	n/a	n/a	mg/kg
Pentachlorophenol	0/272	2.4	n/a	n/a	mg/kg
Phenanthrene	64/272	0.49	n/a	n/a	mg/kg
Phenol	1/272	0.49	n/a	n/a	mg/kg
p-Nitroaniline	0/272	2.4	n/a	n/a	mg/kg
Pyrene	88/272	0.49	81.2	No	mg/kg
Pyridine	0/272	0.97	n/a	n/a	mg/kg
Total PAH	167/274	0.49	0.0197	Yes	mg/kg
1,1,1,2-Tetrachloroethane	0/14	0.49	n/a	n/a	mg/kg
1,1,1-Trichloroethane	0/14	0.49	n/a	n/a	mg/kg
1,1,2,2-Tetrachloroethane	0/14	0.49	n/a	n/a	mg/kg
1,1,2-Trichloroethane	0/14	0.49	n/a	n/a	mg/kg
1,1-Dichloroethane	0/14	0.49	n/a	n/a	mg/kg
1,1-Dichloroethene	0/14	0.49	0.0237	Yes	mg/kg
1,2,3-Trichloropropane	0/14	0.49	n/a	n/a	mg/kg
1,2-Dibromoethane	0/14	2.4	n/a	n/a	mg/kg
1,2-Dichloroethane	0/14	0.49	n/a	n/a	mg/kg
1,2-Dichloropropane	0/14	0.49	n/a	n/a	mg/kg
1,2-Dimethylbenzene	0/14	0.49	53.5	No	mg/kg
2-Butanone	1/8	0.49	n/a	n/a	mg/kg
2-Chloroethyl vinyl ether	0/8	2.4	n/a	n/a	mg/kg
2-Hexanone	0/14	0.49	n/a	n/a	mg/kg
4-Methyl-2-pentanone	0/14	0.49	n/a	n/a	mg/kg
Acetone	5/12	2.4	n/a	n/a	mg/kg

Table D.1. Comparison between Undetected Analyte's Maximum SQLs and Site-Specific Soil Screening Levels (Continued)

Analyte	Frequency of Detection[b]	Maximum SQL	No Action Screening Value[c]	Screening Value Exceeded?	Units
Acrolein	0/8	0.49	n/a	n/a	mg/kg
Acrylonitrile	0/8	2.4	0.0743	Yes	mg/kg
Benzene	0/14	2.4	0.333	Yes	mg/kg
Bromodichloromethane	0/14	0.49	n/a	n/a	mg/kg
Bromoform	0/14	0.49	n/a	n/a	mg/kg
Bromomethane	1/14	0.49	n/a	n/a	mg/kg
Carbon disulfide	0/14	0.49	n/a	n/a	mg/kg
Carbon tetrachloride	0/14	2.4	0.239	Yes	mg/kg
Chlorobenzene	0/14	0.49	n/a	n/a	mg/kg
Chloroethane	0/14	0.49	n/a	n/a	mg/kg
Chloroform	1/14	0.49	0.122	Yes	mg/kg
Chloromethane	0/14	0.49	n/a	n/a	mg/kg
cis-1,2-Dichloroethene	1/14	0.49	1.05	No	mg/kg
cis-1,3-Dichloropropene	0/14	2.4	n/a	n/a	mg/kg
Dibromochloromethane	0/14	0.49	n/a	n/a	mg/kg
Dibromomethane	0/14	0.0097	n/a	n/a	mg/kg
Dichlorodifluoromethane	0/14	0.49	n/a	n/a	mg/kg
Ethyl methacrylate	0/14	2.1	n/a	n/a	mg/kg
Ethylbenzene	0/14	0.49	1.58	No	mg/kg
Iodomethane	0/14	0.49	n/a	n/a	mg/kg
m,p-Xylene	0/14	0.49	7.96	No	mg/kg
Methylene chloride	13/14	0.49	n/a	n/a	mg/kg
Styrene	0/14	0.49	n/a	n/a	mg/kg
Tetrachloroethene	0/14	0.49	0.113	Yes	mg/kg
Toluene	3/14	0.49	n/a	n/a	mg/kg
trans-1,2-Dichloroethene	0/14	0.49	2.43	No	mg/kg
trans-1,3-Dichloropropene	0/14	0.49	n/a	n/a	mg/kg
trans-1,4-Dichloro-2-butene	0/14	0.49	n/a	n/a	mg/kg
Trichloroethene	0/14	2.4	0.0234	Yes	mg/kg
Trichlorofluoromethane	0/14	0.49	n/a	n/a	mg/kg
Vinyl acetate	0/14	0.49	n/a	n/a	mg/kg
Vinyl chloride	0/14	0.97	0.0824	Yes	mg/kg

SQL = sample quantitation limit
PCBs = polychlorinated biphenyls
[a] Results shown are over all soil samples collected within SWMUs/AOCs investigated for the Soils OU RI in summer 2010. Comparison for historical data is shown in Appendix B.
[b] Number of detected results over total number of samples collected within SWMUs/AOCs investigated for the Soils OU RI in summer 2010.
[c] Risk-based screening values are taken from Appendix A of the Risk Methods Document (DOE 2011). The screening values are the lesser of the HI and ELCR no action levels used for the child resident of 0.1 and 1×10^{-6}, respectively.
n/a = no screening level available

Table D.2. Definitions of Qualifiers and Codes Present in the OREIS Data Set Used for the BHHRA of the Soils Operable Unit Remedial Investigation

Qualifier	Definition	Data Used?
Field = VALIDATION (Validation Qualifier)		
=	Validated result that is detected and unqualified.	Yes
D	Detected above the reported detection limit, the reported detection limit is approximated due to quality deficiency	Yes
E	E = ?	Yes
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.	Yes
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."	Yes
R	Result rejected due to quality deficiency.	No
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.	Yes
X	Not validated; refer to RSLTQUAL field for more information.	Yes
XV	Not validated; refer to RSLTQUAL field for more information.	Yes
?	Not validated; refer to RSLTQUAL field for more information.	Yes
Field = RSLTQUAL (Result Qualifier)		
Blank	Result not qualified.	Yes
*	Duplicate analysis is not within control limits.	Yes
+	METAL: Correlation coefficient for MSA (Method of Standard Additions) < 0.995	Yes
<	Numerical value reported was less than the requested reporting limit (e.g., MDL, MDA, RRL, IDL).	Yes
>	Actual value was greater than the reported result.	Yes
A	SVOA/VOA: TIC (Tentatively Identified Compound) was suspected aldol condensation product; PPCB/SVOA/VOA: Suspected aldol-condensation product (pre-05/30/03 definition); RADS: Analyzed but not detected at the analyte quantitation limit.	Yes
B	Inorganic: The result is less than the project contract required detection limit, but greater than the instrument detection limit.	Yes
C	PPCB: Pesticide confirmed by GC/MS(Gas Chromatography/Mass Spectrometry); METAL: Possible contamination	Yes
D	Identified at secondary dilution.	Yes
E	Inorganic: Estimated value; matrix interference.	Yes
	Organic: Concentration exceeds calibration range of gas chromatograph/mass spectrometer.	Yes
G	BIOTOX: Male	Yes
J	Estimated value, tentatively identified compound, or less than specified detection limit.	Yes
K	RADS: Missing one or more lines in spectrum	Yes
M	METAL: Duplicate injection precision not met; RADS: Matrix Spike recovery is < 80% or > 120% (pre-05/30/03 definition).	Yes
N	Inorganic: Spike recovery not within control limits.	Yes
	Organic: Applied to TIC results, except generic characteristics.	Yes
P	HERB/PPCB: > 25% difference between two columns for Pesticides/Aroclors	Yes
S	METAL/TCLPMET: Determined by Method of Standard Additions; DI FURA: Signal-to-noise ratio of the confirmation ion does not meet 2.5 S/N requirement but peak was determined to be positive in the judgment of the GC/MS analyst	Yes
T	Tracer recovery is less than 20% or greater than 105%.	Yes
U	ALL ANALYSIS TYPES EXCEPT RADS: Not detected; RADS: Value reported is < MDA and/or TPU.	Yes
V	Incomplete sample (e.g., sample is a partial filet)	Yes
W	METAL: Post-digestion spike for atomic absorption out of control limit.	Yes
X	Flag one; defined in COMMENTS field.	Yes
Y	Chemical yield exceeds acceptance limits; Organic: matrix spike, matrix spike duplicate recovery, and/or relative percent difference failed acceptance criteria.	Yes

Table D.3. Provisional Background Concentrations for Surface and Subsurface Soil at PGDP

Analyte	Background Value[b]	
	Surface	Subsurface
Inorganic Chemicals (mg/kg)[a]		
Aluminum	13,000	12,000
Antimony	0.21	0.21
Arsenic	12	7.9
Barium	200	170
Beryllium	0.67	0.69
Cadmium	0.21	0.21
Calcium	200,000	6,100
Chromium (III)	16	43
Chromium (VI)	---	---
Cobalt	14	13
Copper	19	25
Cyanide (CN^-)[c]	---	---
Iron	28,000	28,000
Lead	36	23
Magnesium	7,700	2,100
Manganese	1,500	820
Mercury	0.2	0.13
Nickel	21	22
Potassium	1,300	950
Selenium	0.8	0.7
Silver	2.3	2.7
Sodium	320	340
Sulfide[d]	---	---
Thallium	0.21	0.34
Tin[d]	---	---
Uranium	4.9	4.6
Vanadium	38	37
Zinc	65	60
Radionuclide (pCi/g)		
Cesium-137	0.49	0.28
Neptunium-237[e]	0.1	---
Plutonium-238[e]	0.073	---
Plutonium-239[e]	0.025	---
Potassium-40	16	16
Radium-226	1.5	1.5
Strontium-90[e]	4.7	---
Technetium-99	2.5	2.8
Thorium-228	1.6	1.6
Thorium-230	1.5	1.4
Thorium-232	1.5	1.5
Uranium-234	1.2[f]	1.2[f]
Uranium-235	0.06[f]	0.06[f]
Uranium-238	1.2	1.2

Notes: Cells with "---" indicated data are not available or not applicable.
Values contained in this table have not been approved for all uses by the PGDP Risk Assessment Working Group. Therefore, the values presented here are provisional values and subject to change.

[a] Includes inorganic chemicals found on Target Analyte List as defined by EPA in 1988 CLP Statement of Work and RCRA Appendix IX list of constituents.

[b] Risk Methods Document (DOE 2011)

[c] Cyanide is not expected to be naturally occurring in soil at PGDP; background values were not derived.

[d] Data are not adequate to calculate a background concentration in soil for this analyte.

[e] Concentrations for these radionuclides in subsurface soil were not derived.

[f] The values listed for uranium-234 and uranium-235 are not from the 1996 background study, but are derived from the natural isotopic abundance ratio and the uranium-238 values. The values for these radionuclides that appeared in the 2001 version of the Risk Methods Document (DOE 2001) were the UTLs of measured values for the individual isotopes as reported in the PGDP background study (DOE 1997).

Table D.4. Surface Soil COPCs

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
1	1	Aluminum	9380	7	7	13000	4410	NoB
1	1	Arsenic	6.56	7	6	12	0.238	NoB
1	1	Barium	110	7	7	200	140	NoAB
1	1	Beryllium	7.8	7	6	0.67	0.00567	Yes
1	1	Bis(2-ethylhexyl)phthalate	0.16	4	2			NoC
1	1	Cadmium	1.1	7	1	0.21	0.811	Yes
1	1	Calcium	5190	7	7	200000		NoB
1	1	Carbon disulfide	0.001	3	1			NoC
1	1	Chloroform	0.004	3	1		0.122	NoA
1	1	Chromium	16.8	7	7	16	15.6	Yes
1	1	Cobalt	13.7	7	7	14	1.37	NoB
1	1	Copper	9.7	7	7	19	184	NoAB
1	1	Di-n-butyl phthalate	0.067	4	2			NoC
1	1	Iron	15800	7	7	28000	3220	NoB
1	1	Lead	22.2	7	5	36	400	NoAB
1	1	Magnesium	1400	7	7	7700		NoB
1	1	Manganese	1060	7	7	1500	419	NoB
1	1	Mercury	0.0282	7	1	0.2	0.213	NoAB
1	1	Nickel	14.9	7	7	21	10.4	NoB
1	1	PCB, Total	0.199	37	1		0.0648	Yes
1	1	Selenium	0.3	7	2	0.8	23	NoAB
1	1	Sodium	71.7	7	4	320		NoB
1	1	Toluene	0.004	3	1			NoC
1	1	Trichloroethene	0.001	6	1		0.0234	NoA
1	1	Uranium	9.86	3	3	4.9	13.8	NoA
1	1	Vanadium	27.1	7	7	38	0.0365	NoB
1	1	Zinc	39	7	7	65	1380	NoAB
1	1	Americium-241	0.998	3	3		1.5	NoA
1	1	Cesium-137	0.753	3	3	0.49	0.0267	Yes
1	1	Cobalt-60	0.00537	3	3		0.00547	NoA
1	1	Neptunium-237	0.663	3	3	0.1	0.0839	Yes
1	1	Plutonium-238	0.111	3	3	0.073	3.21	NoA
1	1	Plutonium-239/240	9.05	3	3	0.025	3.15	Yes
1	1	Technetium-99	8.29	3	3	2.5	101	NoA
1	1	Thorium-228	0.764	3	3	1.6		NoB
1	1	Thorium-230	65	3	3	1.5	4.1	Yes
1	1	Thorium-232	0.794	3	3	1.5		NoB
1	1	Uranium-234	3.44	3	3	1.2	5.47	NoA
1	1	Uranium-235	0.193	3	3	0.06	0.122	Yes
1	1	Uranium-238	3.31	3	3	1.2	0.517	Yes
1	2	Aluminum	12400	2	2	13000	4410	NoB
1	2	Arsenic	9	2	2	12	0.238	NoB
1	2	Barium	159	2	2	200	140	NoB
1	2	Beryllium	10.5	2	2	0.67	0.00567	Yes
1	2	Bis(2-ethylhexyl)phthalate	0.4	2	1			NoC
1	2	Cadmium	6.5	2	2	0.21	0.811	Yes
1	2	Calcium	7410	2	2	200000		NoB
1	2	Chromium	258	2	2	16	15.6	Yes
1	2	Cobalt	8.6	2	2	14	1.37	NoB
1	2	Copper	231	2	2	19	184	Yes
1	2	Iron	18300	2	2	28000	3220	NoB
1	2	Lead	323	2	2	36	400	NoA
1	2	Magnesium	1610	2	2	7700		NoB
1	2	Manganese	748	2	2	1500	419	NoB
1	2	Mercury	7.7	2	1	0.2	0.213	Yes
1	2	Nickel	85.4	2	2	21	10.4	Yes

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concernt
NAL = no action limit
A = <Child Resident NAL C = no NAL available
B = <Background E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
1	2	PCB, Total	35	39	19		0.0648	Yes
1	2	Selenium	0.98	2	1	0.8	23	NoA
1	2	Silver	42.5	2	1	2.3	2.61	Yes
1	2	Sodium	80.3	2	1	320		NoB
1	2	Thallium	0.37	2	1	0.21	0.368	Yes
1	2	Vanadium	42.1	2	2	38	0.0365	Yes
1	2	Zinc	390	2	2	65	1380	NoA
1	3	Aluminum	10500	2	2	13000	4410	NoB
1	3	Arsenic	6.28	5	2	12	0.238	NoB
1	3	Barium	99.6	5	5	200	140	NoAB
1	3	Beryllium	0.484	2	1	0.67	0.00567	NoB
1	3	Calcium	7650	2	2	200000		NoB
1	3	Chromium	17.1	5	5	16	15.6	Yes
1	3	Cobalt	4.72	2	2	14	1.37	NoB
1	3	Copper	17.3	2	2	19	184	NoAB
1	3	Iron	11900	2	2	28000	3220	NoB
1	3	Lead	19.7	5	2	36	400	NoAB
1	3	Magnesium	1040	2	2	7700		NoB
1	3	Manganese	670	2	2	1500	419	NoB
1	3	Mercury	0.176	5	1	0.2	0.213	NoAB
1	3	Nickel	13.1	5	1	21	10.4	NoB
1	3	PCB, Total	0.365	19	5		0.0648	Yes
1	3	Selenium	0.227	5	1	0.8	23	NoAB
1	3	Sodium	181	2	2	320		NoB
1	3	Trichloroethene	0.015	4	2		0.0234	NoA
1	3	Uranium	5.15	1	1	4.9	13.8	NoA
1	3	Vanadium	24	2	2	38	0.0365	NoB
1	3	Zinc	59.2	2	2	65	1380	NoAB
1	3	Americium-241	-0.0194	1	1		1.5	NoA
1	3	Cesium-137	0.112	1	1	0.49	0.0267	NoB
1	3	Cobalt-60	-0.0226	1	1		0.00547	NoA
1	3	Neptunium-237	-0.00333	1	1	0.1	0.0839	NoAB
1	3	Plutonium-238	-0.00159	1	1	0.073	3.21	NoAB
1	3	Plutonium-239/240	0.00959	1	1	0.025	3.15	NoAB
1	3	Technetium-99	0.343	1	1	2.5	101	NoAB
1	3	Thorium-228	0.35	1	1	1.6		NoB
1	3	Thorium-230	0.46	1	1	1.5	4.1	NoAB
1	3	Thorium-232	0.418	1	1	1.5		NoB
1	3	Uranium-234	1.27	1	1	1.2	5.47	NoA
1	3	Uranium-235	0.0793	1	1	0.06	0.122	NoA
1	3	Uranium-238	1.73	1	1	1.2	0.517	Yes
1	4	Aluminum	11100	3	3	13000	4410	NoB
1	4	Arsenic	5.81	3	2	12	0.238	NoB
1	4	Barium	124	3	3	200	140	NoAB
1	4	Beryllium	0.95	3	2	0.67	0.00567	Yes
1	4	Cadmium	0.79	3	1	0.21	0.811	NoA
1	4	Calcium	8840	3	3	200000		NoB
1	4	Chromium	137	3	3	16	15.6	Yes
1	4	Cobalt	6.29	3	3	14	1.37	NoB
1	4	Copper	46.6	3	3	19	184	NoA
1	4	Fluoranthene	0.62	3	1		109	NoA
1	4	Iron	17300	3	3	28000	3220	NoB
1	4	Lead	18	3	2	36	400	NoAB
1	4	Magnesium	1720	3	3	7700		NoB
1	4	Manganese	359	3	3	1500	419	NoAB
1	4	Mercury	0.18	3	2	0.2	0.213	NoAB
1	4	Nickel	63.8	3	3	21	10.4	Yes
1	4	PCB, Total	0.13	15	1		0.0648	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
1	4	Phenanthrene	0.6	3	1			NoC
1	4	Phenol	1.8	2	1			NoC
1	4	Pyrene	0.68	3	1		81.2	NoA
1	4	Selenium	0.171	3	1	0.8	23	NoAB
1	4	Sodium	122	3	2	320		NoB
1	4	Uranium	3.04	1	1	4.9	13.8	NoAB
1	4	Vanadium	23.9	3	3	38	0.0365	NoB
1	4	Zinc	55.1	3	3	65	1380	NoAB
1	4	Americium-241	0.0992	1	1		1.5	NoA
1	4	Cesium-137	0.337	1	1	0.49	0.0267	NoB
1	4	Cobalt-60	0.022	1	1		0.00547	Yes
1	4	Neptunium-237	0.000571	1	1	0.1	0.0839	NoAB
1	4	Plutonium-238	-0.00225	1	1	0.073	3.21	NoAB
1	4	Plutonium-239/240	0.919	1	1	0.025	3.15	NoA
1	4	Technetium-99	4.86	1	1	2.5	101	NoA
1	4	Thorium-228	0.435	1	1	1.6		NoB
1	4	Thorium-230	5.03	1	1	1.5	4.1	Yes
1	4	Thorium-232	0.504	1	1	1.5		NoB
1	4	Uranium-234	0.47	1	1	1.2	5.47	NoAB
1	4	Uranium-235	0.0226	1	1	0.06	0.122	NoAB
1	4	Uranium-238	0.597	1	1	1.2	0.517	NoB
1	5	2-Methylnaphthalene	0.09	5	1			NoC
1	5	Aluminum	9150	6	6	13000	4410	NoB
1	5	Arsenic	8.3	6	6	12	0.238	NoB
1	5	Barium	117	6	6	200	140	NoAB
1	5	Beryllium	8.3	6	5	0.67	0.00567	Yes
1	5	Bis(2-ethylhexyl)phthalate	0.09	5	2			NoC
1	5	Cadmium	1.2	6	1	0.21	0.811	Yes
1	5	Calcium	31000	6	6	200000		NoB
1	5	Chromium	13.8	6	6	16	15.6	NoAB
1	5	Cobalt	10.1	6	6	14	1.37	NoB
1	5	Copper	15.2	6	6	19	184	NoAB
1	5	Fluoranthene	0.62	6	3		109	NoA
1	5	Iron	16300	6	6	28000	3220	NoB
1	5	Lead	18.9	6	5	36	400	NoAB
1	5	Magnesium	11200	6	6	7700		NoE
1	5	Manganese	763	6	6	1500	419	NoB
1	5	Mercury	0.0461	6	2	0.2	0.213	NoAB
1	5	Methylene chloride	0.006	3	1			NoC
1	5	Molybdenum	14.2	1	1		23	NoA
1	5	Naphthalene	0.063	6	1		1.15	NoA
1	5	Nickel	40.7	6	6	21	10.4	Yes
1	5	PCB, Total	0.27	19	2		0.0648	Yes
1	5	Phenanthrene	0.055	6	2			NoC
1	5	Pyrene	0.49	6	3		81.2	NoA
1	5	Selenium	0.5	6	3	0.8	23	NoAB
1	5	Sodium	142	6	4	320		NoB
1	5	Total PAH	0.098307	6	3		0.0197	Yes
1	5	Uranium	2.86	1	1	4.9	13.8	NoAB
1	5	Vanadium	25.5	6	6	38	0.0365	NoB
1	5	Zinc	87.2	6	6	65	1380	NoA
1	5	Americium-241	0.000857	1	1		1.5	NoA
1	5	Cesium-137	0.0878	1	1	0.49	0.0267	NoB
1	5	Cobalt-60	-0.00558	1	1		0.00547	NoA
1	5	Neptunium-237	-0.00169	1	1	0.1	0.0839	NoAB
1	5	Plutonium-238	-0.00863	1	1	0.073	3.21	NoAB
1	5	Plutonium-239/240	0.00221	1	1	0.025	3.15	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
1	5	Technetium-99	3.33	1	1	2.5	101	NoA
1	5	Thorium-228	0.252	1	1	1.6		NoB
1	5	Thorium-230	0.337	1	1	1.5	4.1	NoAB
1	5	Thorium-232	0.159	1	1	1.5		NoB
1	5	Uranium-234	0.947	1	1	1.2	5.47	NoAB
1	5	Uranium-235	0.0621	1	1	0.06	0.122	NoA
1	5	Uranium-238	0.65	1	1	1.2	0.517	NoB
12	1	Acenaphthylene	0.019	10	1			NoC
12	1	Aluminum	14800	13	13	13000	4410	Yes
12	1	Anthracene	0.021	10	1		747	NoA
12	1	Antimony	0.9	13	10	0.21	0.552	Yes
12	1	Arsenic	85.9	57	39	12	0.238	Yes
12	1	Barium	308	13	13	200	140	Yes
12	1	Benzo(ghi)perylene	0.21	10	2			NoC
12	1	Benzoic acid	0.044	10	1			NoC
12	1	Beryllium	24.4	13	12	0.67	0.00567	Yes
12	1	Bis(2-ethylhexyl)phthalate	0.28	10	1			NoC
12	1	Cadmium	3.3	13	10	0.21	0.811	Yes
12	1	Calcium	289000	13	13	200000		NoE
12	1	Chloroform	0.007	3	1		0.122	NoA
12	1	Chromium	63.3	57	30	16	15.6	Yes
12	1	Cobalt	17.5	13	13	14	1.37	Yes
12	1	Copper	38.64	57	15	19	184	NoA
12	1	Fluoranthene	0.2	10	6		109	NoA
12	1	Iron	107000	57	57	28000	3220	Yes
12	1	Lead	40.63	57	44	36	400	NoA
12	1	Magnesium	10300	13	13	7700		NoE
12	1	Manganese	4380	57	57	1500	419	Yes
12	1	Mercury	8.8	57	10	0.2	0.213	Yes
12	1	Molybdenum	34.19	54	7		23	Yes
12	1	Nickel	159.98	57	22	21	10.4	Yes
12	1	PCB, Total	0.39	47	6		0.0648	Yes
12	1	Phenanthrene	0.11	10	4			NoC
12	1	Pyrene	0.43	10	6		81.2	NoA
12	1	Selenium	4.65	57	6	0.8	23	NoA
12	1	Silver	17	57	11	2.3	2.61	Yes
12	1	Sodium	172	13	8	320		NoB
12	1	Thallium	2	13	11	0.21	0.368	Yes
12	1	Total PAH	0.33958	10	6		0.0197	Yes
12	1	Uranium	1379.58	55	42	4.9	13.8	Yes
12	1	Vanadium	52	13	13	38	0.0365	Yes
12	1	Zinc	126.49	57	57	65	1380	NoA
12	1	Alpha activity	359	2	2			NoC
12	1	Americium-241	0.016	2	2		1.5	NoA
12	1	Beta activity	510	2	2			NoC
12	1	Cesium-137	0.053	2	2	0.49	0.0267	NoB
12	1	Neptunium-237	0.05	2	2	0.1	0.0839	NoAB
12	1	Plutonium-238	0.021	2	2	0.073	3.21	NoAB
12	1	Plutonium-239/240	0.064	2	2	0.025	3.15	NoA
12	1	Technetium-99	5.79	2	2	2.5	101	NoA
12	1	Thorium-228	0.48	2	2	1.6		NoB
12	1	Thorium-230	1.04	2	2	1.5	4.1	NoAB
12	1	Thorium-232	0.471	2	2	1.5		NoB
12	1	Uranium-234	25.1	2	2	1.2	5.47	Yes
12	1	Uranium-235	2.66	2	2	0.06	0.122	Yes
12	1	Uranium-238	117	2	2	1.2	0.517	Yes
13	1	Aluminum	4720	1	1	13000	4410	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
13	1	Barium	77.9	1	1	200	140	NoAB
13	1	Calcium	1540	1	1	200000		NoB
13	1	Chromium	9.58	1	1	16	15.6	NoAB
13	1	Cobalt	5.26	1	1	14	1.37	NoB
13	1	Copper	15.8	1	1	19	184	NoAB
13	1	Iron	9670	1	1	28000	3220	NoB
13	1	Magnesium	492	1	1	7700		NoB
13	1	Manganese	601	1	1	1500	419	NoB
13	1	Nickel	8.26	1	1	21	10.4	NoAB
13	1	PCB, Total	0.7	1	1		0.0648	Yes
13	1	Vanadium	17.8	1	1	38	0.0365	NoB
13	1	Zinc	48.3	1	1	65	1380	NoAB
13	1	Americium-241	0.00856	1	1		1.5	NoA
13	1	Cesium-137	-0.00517	1	1	0.49	0.0267	NoAB
13	1	Cobalt-60	0.0042	1	1		0.00547	NoA
13	1	Neptunium-237	-0.00446	1	1	0.1	0.0839	NoAB
13	1	Plutonium-238	-0.00876	1	1	0.073	3.21	NoAB
13	1	Plutonium-239/240	-0.00105	1	1	0.025	3.15	NoAB
13	1	Thorium-228	0.447	1	1	1.6		NoB
13	1	Thorium-230	0.406	1	1	1.5	4.1	NoAB
13	1	Thorium-232	0.425	1	1	1.5		NoB
13	1	Uranium-234	0.752	1	1	1.2	5.47	NoAB
13	1	Uranium-235	0.0391	1	1	0.06	0.122	NoAB
13	1	Uranium-238	0.944	1	1	1.2	0.517	NoB
13	11	Aluminum	5680	1	1	13000	4410	NoB
13	11	Barium	67.3	1	1	200	140	NoAB
13	11	Calcium	1070	1	1	200000		NoB
13	11	Chromium	8.55	1	1	16	15.6	NoAB
13	11	Cobalt	3.68	1	1	14	1.37	NoB
13	11	Copper	18.8	1	1	19	184	NoAB
13	11	Iron	12100	1	1	28000	3220	NoB
13	11	Magnesium	529	1	1	7700		NoB
13	11	Manganese	750	1	1	1500	419	NoB
13	11	Vanadium	19.2	1	1	38	0.0365	NoB
13	11	Zinc	52.2	1	1	65	1380	NoAB
13	11	Americium-241	0.0438	1	1		1.5	NoA
13	11	Cesium-137	-0.00184	1	1	0.49	0.0267	NoAB
13	11	Cobalt-60	0.013	1	1		0.00547	Yes
13	11	Neptunium-237	-0.0109	1	1	0.1	0.0839	NoAB
13	11	Plutonium-238	0.00435	1	1	0.073	3.21	NoAB
13	11	Plutonium-239/240	0.00348	1	1	0.025	3.15	NoAB
13	11	Thorium-228	0.325	1	1	1.6		NoB
13	11	Thorium-230	0.346	1	1	1.5	4.1	NoAB
13	11	Thorium-232	0.373	1	1	1.5		NoB
13	11	Uranium-235	0.016	1	1	0.06	0.122	NoAB
13	12	Aluminum	5730	1	1	13000	4410	NoB
13	12	Barium	62.5	1	1	200	140	NoAB
13	12	Calcium	781	1	1	200000		NoB
13	12	Chromium	7.89	1	1	16	15.6	NoAB
13	12	Cobalt	3.95	1	1	14	1.37	NoB
13	12	Copper	7.1	1	1	19	184	NoAB
13	12	Iron	6540	1	1	28000	3220	NoB
13	12	Magnesium	544	1	1	7700		NoB
13	12	Manganese	214	1	1	1500	419	NoAB
13	12	Nickel	5.33	1	1	21	10.4	NoAB
13	12	Vanadium	17.8	1	1	38	0.0365	NoB
13	12	Zinc	17.1	1	1	65	1380	NoAB
13	12	Americium-241	0.0288	1	1		1.5	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
13	12	Cesium-137	-0.00607	1	1	0.49	0.0267	NoAB
13	12	Cobalt-60	0.000474	1	1		0.00547	NoA
13	12	Neptunium-237	-0.00296	1	1	0.1	0.0839	NoAB
13	12	Plutonium-238	-0.0141	1	1	0.073	3.21	NoAB
13	12	Plutonium-239/240	-0.0109	1	1	0.025	3.15	NoAB
13	12	Thorium-228	0.479	1	1	1.6		NoB
13	12	Thorium-230	0.405	1	1	1.5	4.1	NoAB
13	12	Thorium-232	0.424	1	1	1.5		NoB
13	12	Uranium-234	0.695	1	1	1.2	5.47	NoAB
13	12	Uranium-235	0.0381	1	1	0.06	0.122	NoAB
13	12	Uranium-238	1.07	1	1	1.2	0.517	NoB
13	4	Aluminum	7660	1	1	13000	4410	NoB
13	4	Barium	85.3	1	1	200	140	NoAB
13	4	Calcium	1400	1	1	200000		NoB
13	4	Chromium	11.9	1	1	16	15.6	NoAB
13	4	Cobalt	5.48	1	1	14	1.37	NoB
13	4	Copper	9.6	1	1	19	184	NoAB
13	4	Iron	11700	1	1	28000	3220	NoB
13	4	Magnesium	741	1	1	7700		NoB
13	4	Manganese	480	1	1	1500	419	NoB
13	4	Nickel	9.01	1	1	21	10.4	NoAB
13	4	Vanadium	25.9	1	1	38	0.0365	NoB
13	4	Zinc	24.2	1	1	65	1380	NoAB
13	4	Americium-241	0.0179	1	1		1.5	NoA
13	4	Cesium-137	-0.000413	1	1	0.49	0.0267	NoAB
13	4	Cobalt-60	0.00331	1	1		0.00547	NoA
13	4	Neptunium-237	-0.00215	1	1	0.1	0.0839	NoAB
13	4	Plutonium-238	-0.0302	1	1	0.073	3.21	NoAB
13	4	Plutonium-239/240	-0.000294	1	1	0.025	3.15	NoAB
13	4	Technetium-99	0.129	1	1	2.5	101	NoAB
13	4	Thorium-228	0.548	1	1	1.6		NoB
13	4	Thorium-230	0.499	1	1	1.5	4.1	NoAB
13	4	Thorium-232	0.499	1	1	1.5		NoB
13	4	Uranium-234	0.79	1	1	1.2	5.47	NoAB
13	4	Uranium-235	0.0443	1	1	0.06	0.122	NoAB
13	4	Uranium-238	1.32	1	1	1.2	0.517	Yes
13	5	Aluminum	14000	2	2	13000	4410	Yes
13	5	Anthracene	0.015	2	1		747	NoA
13	5	Antimony	0.82	2	1	0.21	0.552	Yes
13	5	Arsenic	4.2	2	1	12	0.238	NoB
13	5	Barium	120	2	2	200	140	NoAB
13	5	Beryllium	0.55	2	1	0.67	0.00567	NoB
13	5	Bis(2-ethylhexyl)phthalate	0.23	2	1			NoC
13	5	Cadmium	1.2	2	1	0.21	0.811	Yes
13	5	Calcium	3000	2	2	200000		NoB
13	5	Chromium	19	2	2	16	15.6	Yes
13	5	Cobalt	3.25	2	2	14	1.37	NoB
13	5	Copper	46	2	2	19	184	NoA
13	5	Fluoranthene	0.14	1	1		109	NoA
13	5	Iron	14000	2	2	28000	3220	NoB
13	5	Lead	31	2	1	36	400	NoAB
13	5	Magnesium	1600	2	2	7700		NoB
13	5	Manganese	238	2	2	1500	419	NoAB
13	5	Nickel	140	2	2	21	10.4	Yes
13	5	PCB, Total	1.251	2	1		0.0648	Yes
13	5	Phenanthrene	0.084	2	1			NoC
13	5	Pyrene	0.11	2	1		81.2	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
13	5	Total PAH	0.06647	2	1		0.0197	Yes
13	5	Uranium	130	2	1	4.9	13.8	Yes
13	5	Vanadium	27	2	2	38	0.0365	NoB
13	5	Zinc	240	2	2	65	1380	NoA
13	5	Americium-241	-0.00238	1	1		1.5	NoA
13	5	Cesium-137	-0.00515	1	1	0.49	0.0267	NoAB
13	5	Cobalt-60	0.00236	1	1		0.00547	NoA
13	5	Neptunium-237	0.00377	1	1	0.1	0.0839	NoAB
13	5	Plutonium-238	0.0164	1	1	0.073	3.21	NoAB
13	5	Plutonium-239/240	-0.000588	1	1	0.025	3.15	NoAB
13	5	Thorium-228	0.474	1	1	1.6		NoB
13	5	Thorium-230	0.367	1	1	1.5	4.1	NoAB
13	5	Thorium-232	0.392	1	1	1.5		NoB
13	5	Uranium-234	1.16	1	1	1.2	5.47	NoAB
13	5	Uranium-235	0.0572	1	1	0.06	0.122	NoAB
13	5	Uranium-238	1.17	1	1	1.2	0.517	NoB
13	6	Aluminum	11500	3	3	13000	4410	NoB
13	6	Barium	104	3	3	200	140	NoAB
13	6	Calcium	2500	3	3	200000		NoB
13	6	Chromium	13.7	3	3	16	15.6	NoAB
13	6	Cobalt	8.75	3	3	14	1.37	NoB
13	6	Copper	9.04	3	3	19	184	NoAB
13	6	Iron	11900	3	3	28000	3220	NoB
13	6	Magnesium	1240	3	3	7700		NoB
13	6	Manganese	1120	3	3	1500	419	NoB
13	6	Nickel	11.8	3	3	21	10.4	NoB
13	6	Vanadium	24.8	3	3	38	0.0365	NoB
13	6	Zinc	34.4	3	3	65	1380	NoAB
13	6	Americium-241	0.0441	3	3		1.5	NoA
13	6	Cesium-137	-0.00737	3	3	0.49	0.0267	NoAB
13	6	Cobalt-60	0.00268	3	3		0.00547	NoA
13	6	Neptunium-237	0.0175	3	3	0.1	0.0839	NoAB
13	6	Plutonium-238	0.00352	3	3	0.073	3.21	NoAB
13	6	Plutonium-239/240	0.0104	3	3	0.025	3.15	NoAB
13	6	Thorium-228	0.421	3	3	1.6		NoB
13	6	Thorium-230	0.492	3	3	1.5	4.1	NoAB
13	6	Thorium-232	0.511	3	3	1.5		NoB
13	6	Uranium-234	0.687	3	3	1.2	5.47	NoAB
13	6	Uranium-235	0.0402	3	3	0.06	0.122	NoAB
13	6	Uranium-238	1.32	3	3	1.2	0.517	Yes
13	9	Uranium	18.2	1	1	4.9	13.8	Yes
13	9	Alpha activity	47	1	1			NoC
13	9	Americium-241	0.025	1	1		1.5	NoA
13	9	Beta activity	55.8	1	1			NoC
13	9	Cesium-137	0.393	1	1	0.49	0.0267	NoB
13	9	Neptunium-237	0.89	1	1	0.1	0.0839	Yes
13	9	Plutonium-238	0.017	1	1	0.073	3.21	NoAB
13	9	Plutonium-239/240	0.128	1	1	0.025	3.15	NoA
13	9	Technetium-99	6.81	1	1	2.5	101	NoA
13	9	Thorium-228	0.524	1	1	1.6		NoB
13	9	Thorium-230	1.03	1	1	1.5	4.1	NoAB
13	9	Thorium-232	0.495	1	1	1.5		NoB
13	9	Uranium-234	4.35	1	1	1.2	5.47	NoA
13	9	Uranium-235	0.311	1	1	0.06	0.122	Yes
13	9	Uranium-238	6.08	1	1	1.2	0.517	Yes
138	1	Aluminum	9030	2	2	13000	4410	NoB
138	1	Antimony	7.34	15	3	0.21	0.552	Yes
138	1	Arsenic	15.45	38	21	12	0.238	Yes

SWMU = solid waste management unit
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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
138	1	Barium	174	14	14	200	140	NoB
138	1	Beryllium	0.54	2	2	0.67	0.00567	NoB
138	1	Cadmium	7.3	15	5	0.21	0.811	Yes
138	1	Calcium	207000	2	2	200000		NoE
138	1	Chromium	53.85	41	18	16	15.6	Yes
138	1	Cobalt	9.4	2	2	14	1.37	NoB
138	1	Copper	41.31	28	10	19	184	NoA
138	1	Fluoranthene	0.1	1	1		109	NoA
138	1	Iron	23500	28	28	28000	3220	NoB
138	1	Lead	280.5	41	41	36	400	NoA
138	1	Magnesium	3790	2	2	7700		NoB
138	1	Manganese	671.67	28	28	1500	419	NoB
138	1	Mercury	21.3	41	15	0.2	0.213	Yes
138	1	Molybdenum	0.64	28	2		23	NoA
138	1	Nickel	101.69	41	12	21	10.4	Yes
138	1	PCB, Total	0.5	26	5		0.0648	Yes
138	1	Phenanthrene	0.059	1	1			NoC
138	1	Pyrene	0.096	1	1		81.2	NoA
138	1	Selenium	1.66	41	13	0.8	23	NoA
138	1	Silver	10.09	41	3	2.3	2.61	Yes
138	1	Sodium	93.9	2	2	320		NoB
138	1	Thallium	0.23	15	2	0.21	0.368	NoA
138	1	Total PAH	0.097432	1	1		0.0197	Yes
138	1	Uranium	9.09	28	3	4.9	13.8	NoA
138	1	Vanadium	29.3	2	2	38	0.0365	NoB
138	1	Zinc	91.83	28	28	65	1380	NoA
138	1	Alpha activity	15	1	1			NoC
138	1	Americium-241	0.0021	1	1		1.5	NoA
138	1	Beta activity	20.2	1	1			NoC
138	1	Cesium-137	0.196	1	1	0.49	0.0267	NoB
138	1	Neptunium-237	-0.002	1	1	0.1	0.0839	NoAB
138	1	Plutonium-238	0.0085	1	1	0.073	3.21	NoAB
138	1	Plutonium-239/240	0.0055	1	1	0.025	3.15	NoAB
138	1	Technetium-99	0.07	1	1	2.5	101	NoAB
138	1	Thorium-228	0.496	1	1	1.6		NoB
138	1	Thorium-230	0.77	1	1	1.5	4.1	NoAB
138	1	Thorium-232	0.412	1	1	1.5		NoB
138	1	Uranium-234	0.589	1	1	1.2	5.47	NoAB
138	1	Uranium-235	0.039	1	1	0.06	0.122	NoAB
138	1	Uranium-238	0.645	1	1	1.2	0.517	NoB
138	2	Aluminum	5670	1	1	13000	4410	NoB
138	2	Antimony	0.36	1	1	0.21	0.552	NoA
138	2	Arsenic	11.82	20	4	12	0.238	NoB
138	2	Barium	145	1	1	200	140	NoB
138	2	Beryllium	0.37	1	1	0.67	0.00567	NoB
138	2	Bis(2-ethylhexyl)phthalate	0.093	1	1			NoC
138	2	Cadmium	0.42	1	1	0.21	0.811	NoA
138	2	Calcium	161000	1	1	200000		NoB
138	2	Chromium	12.5	20	1	16	15.6	NoAB
138	2	Cobalt	8	1	1	14	1.37	NoB
138	2	Copper	39.32	20	7	19	184	NoA
138	2	Iron	20300	20	20	28000	3220	NoB
138	2	Lead	56.8	20	20	36	400	NoA
138	2	Magnesium	2930	1	1	7700		NoB
138	2	Manganese	738.42	20	20	1500	419	NoB
138	2	Mercury	0.108	20	1	0.2	0.213	NoAB
138	2	Molybdenum	0.61	20	1		23	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
138	2	Nickel	113.2	20	6	21	10.4	Yes
138	2	PCB, Total	0.092	15	1		0.0648	Yes
138	2	Selenium	1.2	20	1	0.8	23	NoA
138	2	Silver	12.67	20	3	2.3	2.61	Yes
138	2	Sodium	80	1	1	320		NoB
138	2	Thallium	0.23	1	1	0.21	0.368	NoA
138	2	Total PAH	0.0384	3	1		0.0197	Yes
138	2	Uranium	3.12	21	2	4.9	13.8	NoAB
138	2	Vanadium	17.1	1	1	38	0.0365	NoB
138	2	Zinc	90.15	20	20	65	1380	NoA
138	2	Alpha activity	25.6	2	2			NoC
138	2	Americium-241	0.015	2	2		1.5	NoA
138	2	Beta activity	19.4	2	2			NoC
138	2	Cesium-137	0.105	2	2	0.49	0.0267	NoB
138	2	Neptunium-237	0.0016	2	2	0.1	0.0839	NoAB
138	2	Plutonium-238	0.005	2	2	0.073	3.21	NoAB
138	2	Plutonium-239/240	0.0085	2	2	0.025	3.15	NoAB
138	2	Technetium-99	0.29	2	2	2.5	101	NoAB
138	2	Thorium-228	0.86	2	2	1.6		NoB
138	2	Thorium-230	0.87	2	2	1.5	4.1	NoAB
138	2	Thorium-232	0.87	2	2	1.5		NoB
138	2	Uranium-234	0.87	2	2	1.2	5.47	NoAB
138	2	Uranium-235	0.051	2	2	0.06	0.122	NoAB
138	2	Uranium-238	1.04	2	2	1.2	0.517	NoB
14	1	Aluminum	4700	1	1	13000	4410	NoB
14	1	Arsenic	12.07	12	5	12	0.238	Yes
14	1	Barium	26.9	1	1	200	140	NoAB
14	1	Beryllium	0.35	1	1	0.67	0.00567	NoB
14	1	Cadmium	0.023	1	1	0.21	0.811	NoAB
14	1	Calcium	4980	1	1	200000		NoB
14	1	Chromium	63.58	12	6	16	15.6	Yes
14	1	Cobalt	10.9	1	1	14	1.37	NoB
14	1	Copper	95.55	12	5	19	184	NoA
14	1	Iron	29680.63	12	12	28000	3220	Yes
14	1	Lead	37.89	12	11	36	400	NoA
14	1	Magnesium	710	1	1	7700		NoB
14	1	Manganese	1080.04	12	12	1500	419	NoB
14	1	Mercury	0.0183	12	1	0.2	0.213	NoAB
14	1	Molybdenum	0.44	12	1		23	NoA
14	1	Nickel	303.96	12	8	21	10.4	Yes
14	1	PCB, Total	0.5	13	1		0.0648	Yes
14	1	Selenium	0.54	12	1	0.8	23	NoAB
14	1	Silver	16.69	12	2	2.3	2.61	Yes
14	1	Sodium	61.8	1	1	320		NoB
14	1	Thallium	0.066	1	1	0.21	0.368	NoAB
14	1	Uranium	174.93	12	8	4.9	13.8	Yes
14	1	Vanadium	20.6	1	1	38	0.0365	NoB
14	1	Zinc	187.29	12	12	65	1380	NoA
14	1	Alpha activity	19.7	1	1			NoC
14	1	Americium-241	1.65	2	2		1.5	Yes
14	1	Beta activity	19.8	1	1			NoC
14	1	Cesium-137	0.097	2	2	0.49	0.0267	NoB
14	1	Neptunium-237	0.273	2	2	0.1	0.0839	Yes
14	1	Plutonium-238	0.0078	1	1	0.073	3.21	NoAB
14	1	Plutonium-239/240	0.283	2	2	0.025	3.15	NoA
14	1	Technetium-99	406	2	2	2.5	101	Yes
14	1	Thorium-228	0.377	1	1	1.6		NoB
14	1	Thorium-230	3.17	2	2	1.5	4.1	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
14	1	Thorium-232	0.356	1	1	1.5		NoB
14	1	Uranium-234	1.01	1	1	1.2	5.47	NoAB
14	1	Uranium-235	0.061	1	1	0.06	0.122	NoA
14	1	Uranium-238	1.69	1	1	1.2	0.517	Yes
14	10	Aluminum	6430	1	1	13000	4410	NoB
14	10	Antimony	0.94	1	1	0.21	0.552	Yes
14	10	Arsenic	13.37	11	7	12	0.238	Yes
14	10	Barium	117	1	1	200	140	NoAB
14	10	Benzo(ghi)perylene	0.11	1	1			NoC
14	10	Beryllium	0.41	1	1	0.67	0.00567	NoB
14	10	Cadmium	0.57	1	1	0.21	0.811	NoA
14	10	Calcium	76000	1	1	200000		NoB
14	10	Chromium	41.85	11	6	16	15.6	Yes
14	10	Cobalt	6.3	1	1	14	1.37	NoB
14	10	Copper	275.71	11	8	19	184	Yes
14	10	Fluoranthene	0.21	1	1		109	NoA
14	10	Iron	39014.89	11	11	28000	3220	Yes
14	10	Lead	49.39	11	11	36	400	NoA
14	10	Magnesium	3120	1	1	7700		NoB
14	10	Manganese	1062.78	11	11	1500	419	NoB
14	10	Mercury	43.71	11	3	0.2	0.213	Yes
14	10	Molybdenum	0.89	11	1		23	NoA
14	10	Nickel	950.81	11	10	21	10.4	Yes
14	10	PCB, Total	10	11	5		0.0648	Yes
14	10	Phenanthrene	0.045	1	1			NoC
14	10	Pyrene	0.24	1	1		81.2	NoA
14	10	Selenium	1.2	11	1	0.8	23	NoA
14	10	Silver	0.15	11	1	2.3	2.61	NoAB
14	10	Sodium	65.1	1	1	320		NoB
14	10	Thallium	0.11	1	1	0.21	0.368	NoAB
14	10	Total PAH	0.27151	1	1		0.0197	Yes
14	10	Uranium	541.96	11	11	4.9	13.8	Yes
14	10	Vanadium	20.9	1	1	38	0.0365	NoB
14	10	Zinc	278.18	11	11	65	1380	NoA
14	10	Alpha activity	130	1	1			NoC
14	10	Americium-241	0.064	1	1		1.5	NoA
14	10	Beta activity	197	1	1			NoC
14	10	Cesium-137	0.055	1	1	0.49	0.0267	NoB
14	10	Neptunium-237	2.64	1	1	0.1	0.0839	Yes
14	10	Plutonium-238	0.032	1	1	0.073	3.21	NoAB
14	10	Plutonium-239/240	0.24	1	1	0.025	3.15	NoA
14	10	Technetium-99	56.3	1	1	2.5	101	NoA
14	10	Thorium-228	0.66	1	1	1.6		NoB
14	10	Thorium-230	1.16	1	1	1.5	4.1	NoAB
14	10	Thorium-232	0.7	1	1	1.5		NoB
14	10	Uranium-234	24.2	1	1	1.2	5.47	Yes
14	10	Uranium-235	1.76	1	1	0.06	0.122	Yes
14	10	Uranium-238	40.9	1	1	1.2	0.517	Yes
14	2	Acenaphthene	0.039	1	1		117	NoA
14	2	Aluminum	5190	1	1	13000	4410	NoB
14	2	Anthracene	0.078	1	1		747	NoA
14	2	Antimony	3.7	1	1	0.21	0.552	Yes
14	2	Arsenic	25.82	12	6	12	0.238	Yes
14	2	Barium	43.4	1	1	200	140	NoAB
14	2	Benzo(ghi)perylene	0.12	1	1			NoC
14	2	Beryllium	0.71	1	1	0.67	0.00567	Yes
14	2	Bis(2-ethylhexyl)phthalate	0.22	1	1			NoC

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
14	2	Cadmium	0.73	1	1	0.21	0.811	NoA
14	2	Calcium	59000	1	1	200000		NoB
14	2	Chromium	66.54	12	9	16	15.6	Yes
14	2	Cobalt	9.5	1	1	14	1.37	NoB
14	2	Copper	258.32	12	10	19	184	Yes
14	2	Di-n-butyl phthalate	0.054	1	1			NoC
14	2	Fluoranthene	0.46	1	1		109	NoA
14	2	Iron	52657.51	12	12	28000	3220	Yes
14	2	Lead	148.86	12	11	36	400	NoA
14	2	Magnesium	4730	1	1	7700		NoB
14	2	Manganese	2667.77	12	12	1500	419	Yes
14	2	Mercury	0.267	12	1	0.2	0.213	Yes
14	2	Molybdenum	1.4	12	1		23	NoA
14	2	Nickel	1380.97	12	11	21	10.4	Yes
14	2	PCB, Total	0.39	12	1		0.0648	Yes
14	2	Phenanthrene	0.31	1	1			NoC
14	2	Pyrene	0.43	1	1		81.2	NoA
14	2	Selenium	0.9	12	1	0.8	23	NoA
14	2	Silver	0.72	12	1	2.3	2.61	NoAB
14	2	Sodium	65.3	1	1	320		NoB
14	2	Thallium	0.082	1	1	0.21	0.368	NoAB
14	2	Total PAH	0.33814	1	1		0.0197	Yes
14	2	Uranium	524.16	12	12	4.9	13.8	Yes
14	2	Vanadium	32.8	1	1	38	0.0365	NoB
14	2	Zinc	737.29	12	12	65	1380	NoA
14	2	Alpha activity	117	1	1			NoC
14	2	Americium-241	0.159	1	1		1.5	NoA
14	2	Beta activity	239	1	1			NoC
14	2	Cesium-137	0.062	1	1	0.49	0.0267	NoB
14	2	Neptunium-237	0.77	1	1	0.1	0.0839	Yes
14	2	Plutonium-238	0.044	1	1	0.073	3.21	NoAB
14	2	Plutonium-239/240	0.698	1	1	0.025	3.15	NoA
14	2	Technetium-99	48.8	1	1	2.5	101	NoA
14	2	Thorium-228	0.574	1	1	1.6		NoB
14	2	Thorium-230	5.98	1	1	1.5	4.1	Yes
14	2	Thorium-232	0.582	1	1	1.5		NoB
14	2	Uranium-234	32.4	1	1	1.2	5.47	Yes
14	2	Uranium-235	2	1	1	0.06	0.122	Yes
14	2	Uranium-238	56.1	1	1	1.2	0.517	Yes
14	3	Aluminum	3880	1	1	13000	4410	NoAB
14	3	Antimony	0.18	1	1	0.21	0.552	NoAB
14	3	Arsenic	16.84	12	5	12	0.238	Yes
14	3	Barium	40.9	1	1	200	140	NoAB
14	3	Beryllium	0.62	1	1	0.67	0.00567	NoB
14	3	Cadmium	0.18	1	1	0.21	0.811	NoAB
14	3	Calcium	21400	1	1	200000		NoB
14	3	Chromium	70.13	12	6	16	15.6	Yes
14	3	Cobalt	11.5	1	1	14	1.37	NoB
14	3	Copper	195.57	12	11	19	184	Yes
14	3	Iron	54899.16	12	12	28000	3220	Yes
14	3	Lead	141.5	12	11	36	400	NoA
14	3	Magnesium	1120	1	1	7700		NoB
14	3	Manganese	1547.92	12	12	1500	419	Yes
14	3	Mercury	7.48	12	1	0.2	0.213	Yes
14	3	Molybdenum	28.67	12	2		23	Yes
14	3	Nickel	1198.49	12	12	21	10.4	Yes
14	3	PCB, Total	10	12	3		0.0648	Yes
14	3	Selenium	0.58	12	1	0.8	23	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
14	3	Silver	0.028	12	1	2.3	2.61	NoAB
14	3	Sodium	32.7	1	1	320		NoB
14	3	Thallium	0.073	1	1	0.21	0.368	NoAB
14	3	Uranium	349.16	12	12	4.9	13.8	Yes
14	3	Vanadium	23.9	1	1	38	0.0365	NoB
14	3	Zinc	641.9	12	12	65	1380	NoA
14	3	Alpha activity	15.8	1	1			NoC
14	3	Americium-241	0.015	1	1		1.5	NoA
14	3	Beta activity	23.7	1	1			NoC
14	3	Cesium-137	0.018	1	1	0.49	0.0267	NoAB
14	3	Neptunium-237	0.013	1	1	0.1	0.0839	NoAB
14	3	Plutonium-238	0.013	1	1	0.073	3.21	NoAB
14	3	Plutonium-239/240	0.047	1	1	0.025	3.15	NoA
14	3	Technetium-99	1.25	1	1	2.5	101	NoAB
14	3	Thorium-228	0.259	1	1	1.6		NoB
14	3	Thorium-230	0.544	1	1	1.5	4.1	NoAB
14	3	Thorium-232	0.307	1	1	1.5		NoB
14	3	Uranium-234	1	1	1	1.2	5.47	NoAB
14	3	Uranium-235	0.052	1	1	0.06	0.122	NoAB
14	3	Uranium-238	1.5	1	1	1.2	0.517	Yes
14	4	Aluminum	11300	1	1	13000	4410	NoB
14	4	Antimony	4.3	1	1	0.21	0.552	Yes
14	4	Arsenic	20.75	15	5	12	0.238	Yes
14	4	Barium	125	1	1	200	140	NoAB
14	4	Benzo(ghi)perylene	0.084	1	1			NoC
14	4	Beryllium	0.64	1	1	0.67	0.00567	NoB
14	4	Bis(2-ethylhexyl)phthalate	0.35	1	1			NoC
14	4	Cadmium	0.45	1	1	0.21	0.811	NoA
14	4	Calcium	3420	1	1	200000		NoB
14	4	Chromium	77.28	15	10	16	15.6	Yes
14	4	Cobalt	13.9	1	1	14	1.37	NoB
14	4	Copper	1098.8	15	15	19	184	Yes
14	4	Di-n-butyl phthalate	0.043	1	1			NoC
14	4	Fluoranthene	0.18	1	1		109	NoA
14	4	Iron	62967.76	15	15	28000	3220	Yes
14	4	Lead	115.82	15	15	36	400	NoA
14	4	Magnesium	1950	1	1	7700		NoB
14	4	Manganese	1231.77	15	15	1500	419	NoB
14	4	Mercury	0.487	15	1	0.2	0.213	Yes
14	4	Molybdenum	14.87	15	3		23	NoA
14	4	Nickel	1590.5	15	15	21	10.4	Yes
14	4	PCB, Total	10	15	5		0.0648	Yes
14	4	Phenanthrene	0.053	1	1			NoC
14	4	Pyrene	0.18	1	1		81.2	NoA
14	4	Selenium	1.7	15	1	0.8	23	NoA
14	4	Silver	11.7	15	2	2.3	2.61	Yes
14	4	Sodium	129	1	1	320		NoB
14	4	Thallium	0.074	1	1	0.21	0.368	NoAB
14	4	Total PAH	0.25077	1	1		0.0197	Yes
14	4	Uranium	663.16	15	15	4.9	13.8	Yes
14	4	Vanadium	34.6	1	1	38	0.0365	NoB
14	4	Zinc	722.91	15	15	65	1380	NoA
14	4	Alpha activity	323	1	1			NoC
14	4	Americium-241	0.128	1	1		1.5	NoA
14	4	Beta activity	469	1	1			NoC
14	4	Cesium-137	0.076	1	1	0.49	0.0267	NoB
14	4	Neptunium-237	2.68	1	1	0.1	0.0839	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
14	4	Plutonium-238	0.059	1	1	0.073	3.21	NoAB
14	4	Plutonium-239/240	0.69	1	1	0.025	3.15	NoA
14	4	Technetium-99	13	1	1	2.5	101	NoA
14	4	Thorium-228	0.93	1	1	1.6		NoB
14	4	Thorium-230	8.33	1	1	1.5	4.1	Yes
14	4	Thorium-232	0.93	1	1	1.5		NoB
14	4	Uranium-234	113	1	1	1.2	5.47	Yes
14	4	Uranium-235	8	1	1	0.06	0.122	Yes
14	4	Uranium-238	169	1	1	1.2	0.517	Yes
14	5	2-Methylnaphthalene	0.18	1	1			NoC
14	5	Aluminum	10100	1	1	13000	4410	NoB
14	5	Antimony	2.3	1	1	0.21	0.552	Yes
14	5	Arsenic	16.35	12	5	12	0.238	Yes
14	5	Barium	103	1	1	200	140	NoAB
14	5	Benzo(ghi)perylene	0.048	1	1			NoC
14	5	Beryllium	0.54	1	1	0.67	0.00567	NoB
14	5	Bis(2-ethylhexyl)phthalate	0.17	1	1			NoC
14	5	Cadmium	3.9	1	1	0.21	0.811	Yes
14	5	Calcium	37100	1	1	200000		NoB
14	5	Chromium	46.97	12	4	16	15.6	Yes
14	5	Cobalt	14	1	1	14	1.37	Yes
14	5	Copper	218.15	12	10	19	184	Yes
14	5	Fluoranthene	0.099	1	1		109	NoA
14	5	Iron	66572.84	12	12	28000	3220	Yes
14	5	Lead	146	12	11	36	400	NoA
14	5	Magnesium	2250	1	1	7700		NoB
14	5	Manganese	1545.17	12	11	1500	419	Yes
14	5	Mercury	10.94	12	2	0.2	0.213	Yes
14	5	Molybdenum	4.3	12	1		23	NoA
14	5	Nickel	697.12	12	10	21	10.4	Yes
14	5	PCB, Total	1	12	1		0.0648	Yes
14	5	Pyrene	0.1	1	1		81.2	NoA
14	5	Selenium	1.2	12	1	0.8	23	NoA
14	5	Silver	12.87	12	3	2.3	2.61	Yes
14	5	Sodium	99.6	1	1	320		NoB
14	5	Thallium	0.41	1	1	0.21	0.368	Yes
14	5	Total PAH	0.120962	1	1		0.0197	Yes
14	5	Uranium	445	12	10	4.9	13.8	Yes
14	5	Vanadium	28.4	1	1	38	0.0365	NoB
14	5	Zinc	364	12	11	65	1380	NoA
14	5	Alpha activity	224	1	1			NoC
14	5	Americium-241	0.195	1	1		1.5	NoA
14	5	Beta activity	393	1	1			NoC
14	5	Cesium-137	0.172	1	1	0.49	0.0267	NoB
14	5	Neptunium-237	1.74	1	1	0.1	0.0839	Yes
14	5	Plutonium-238	0.01	1	1	0.073	3.21	NoAB
14	5	Plutonium-239/240	1.12	1	1	0.025	3.15	NoA
14	5	Technetium-99	101	1	1	2.5	101	Yes
14	5	Thorium-228	0.88	1	1	1.6		NoB
14	5	Thorium-230	13.9	1	1	1.5	4.1	Yes
14	5	Thorium-232	0.97	1	1	1.5		NoB
14	5	Uranium-234	52.2	1	1	1.2	5.47	Yes
14	5	Uranium-235	3.33	1	1	0.06	0.122	Yes
14	5	Uranium-238	94.2	1	1	1.2	0.517	Yes
14	6	Aluminum	6020	1	1	13000	4410	NoB
14	6	Antimony	2.7	1	1	0.21	0.552	Yes
14	6	Arsenic	10.74	12	2	12	0.238	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
14	6	Barium	76.4	1	1	200	140	NoAB
14	6	Beryllium	0.32	1	1	0.67	0.00567	NoB
14	6	Cadmium	0.84	1	1	0.21	0.811	Yes
14	6	Calcium	89300	1	1	200000		NoB
14	6	Chromium	897.61	12	2	16	15.6	Yes
14	6	Cobalt	5.9	1	1	14	1.37	NoB
14	6	Copper	207.36	12	11	19	184	Yes
14	6	Iron	24663.22	12	12	28000	3220	NoB
14	6	Lead	39.53	12	12	36	400	NoA
14	6	Magnesium	6190	1	1	7700		NoB
14	6	Manganese	933.29	12	12	1500	419	NoB
14	6	Mercury	0.347	12	1	0.2	0.213	Yes
14	6	Molybdenum	16.41	12	4		23	NoA
14	6	Nickel	1622.96	12	12	21	10.4	Yes
14	6	PCB, Total	5	12	2		0.0648	Yes
14	6	Selenium	1.1	12	1	0.8	23	NoA
14	6	Silver	16.63	12	2	2.3	2.61	Yes
14	6	Sodium	94.6	1	1	320		NoB
14	6	Thallium	0.12	1	1	0.21	0.368	NoAB
14	6	Total PAH	0.015	1	1		0.0197	NoA
14	6	Uranium	864.68	12	12	4.9	13.8	Yes
14	6	Vanadium	17.6	1	1	38	0.0365	NoB
14	6	Zinc	240.58	12	12	65	1380	NoA
14	6	Alpha activity	138	1	1			NoC
14	6	Americium-241	0.022	1	1		1.5	NoA
14	6	Beta activity	250	1	1			NoC
14	6	Cesium-137	0.017	1	1	0.49	0.0267	NoAB
14	6	Neptunium-237	2.65	1	1	0.1	0.0839	Yes
14	6	Plutonium-238	0.016	1	1	0.073	3.21	NoAB
14	6	Plutonium-239/240	0.117	1	1	0.025	3.15	NoA
14	6	Technetium-99	76	1	1	2.5	101	NoA
14	6	Thorium-228	0.9	1	1	1.6		NoB
14	6	Thorium-230	1.67	1	1	1.5	4.1	NoA
14	6	Thorium-232	0.87	1	1	1.5		NoB
14	6	Uranium-234	34.1	1	1	1.2	5.47	Yes
14	6	Uranium-235	2.27	1	1	0.06	0.122	Yes
14	6	Uranium-238	50.8	1	1	1.2	0.517	Yes
14	7	Aluminum	5630	1	1	13000	4410	NoB
14	7	Anthracene	0.081	1	1		747	NoA
14	7	Antimony	0.75	1	1	0.21	0.552	Yes
14	7	Arsenic	12.99	12	4	12	0.238	Yes
14	7	Barium	117	1	1	200	140	NoAB
14	7	Beryllium	0.41	1	1	0.67	0.00567	NoB
14	7	Cadmium	2.7	1	1	0.21	0.811	Yes
14	7	Calcium	182000	1	1	200000		NoB
14	7	Chromium	64.56	12	6	16	15.6	Yes
14	7	Cobalt	7.2	1	1	14	1.37	NoB
14	7	Copper	176.65	12	9	19	184	NoA
14	7	Fluoranthene	0.072	1	1		109	NoA
14	7	Iron	25208.37	12	12	28000	3220	NoB
14	7	Lead	62.69	12	12	36	400	NoA
14	7	Magnesium	18200	1	1	7700		NoE
14	7	Manganese	909.25	12	12	1500	419	NoB
14	7	Mercury	7.82	12	2	0.2	0.213	Yes
14	7	Molybdenum	1.5	12	1		23	NoA
14	7	Nickel	2668.41	12	12	21	10.4	Yes
14	7	PCB, Total	10	12	2		0.0648	Yes
14	7	Pyrene	0.073	1	1		81.2	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
14	7	Selenium	1.3	12	1	0.8	23	NoA
14	7	Silver	0.15	12	1	2.3	2.61	NoAB
14	7	Sodium	176	1	1	320		NoB
14	7	Thallium	0.27	1	1	0.21	0.368	NoA
14	7	Total PAH	0.06314	1	1		0.0197	Yes
14	7	Uranium	762.94	12	12	4.9	13.8	Yes
14	7	Vanadium	18.8	1	1	38	0.0365	NoB
14	7	Zinc	337.01	12	12	65	1380	NoA
14	7	Alpha activity	68	1	1			NoC
14	7	Americium-241	0.022	1	1		1.5	NoA
14	7	Beta activity	130	1	1			NoC
14	7	Cesium-137	0.103	1	1	0.49	0.0267	NoB
14	7	Neptunium-237	1.49	1	1	0.1	0.0839	Yes
14	7	Plutonium-238	0.012	1	1	0.073	3.21	NoAB
14	7	Plutonium-239/240	0.037	1	1	0.025	3.15	NoA
14	7	Technetium-99	25.1	1	1	2.5	101	NoA
14	7	Thorium-228	0.525	1	1	1.6		NoB
14	7	Thorium-230	0.95	1	1	1.5	4.1	NoAB
14	7	Thorium-232	0.476	1	1	1.5		NoB
14	7	Uranium-234	12.8	1	1	1.2	5.47	Yes
14	7	Uranium-235	0.96	1	1	0.06	0.122	Yes
14	7	Uranium-238	21.3	1	1	1.2	0.517	Yes
14	8	Aluminum	4770	1	1	13000	4410	NoB
14	8	Antimony	0.61	1	1	0.21	0.552	Yes
14	8	Arsenic	14.02	13	5	12	0.238	Yes
14	8	Barium	102	1	1	200	140	NoAB
14	8	Beryllium	0.37	1	1	0.67	0.00567	NoB
14	8	Bis(2-ethylhexyl)phthalate	0.3	1	1			NoC
14	8	Cadmium	0.33	1	1	0.21	0.811	NoA
14	8	Calcium	162000	1	1	200000		NoB
14	8	Chromium	46.03	13	4	16	15.6	Yes
14	8	Cobalt	6.6	1	1	14	1.37	NoB
14	8	Copper	129.47	13	10	19	184	NoA
14	8	Fluoranthene	0.068	1	1		109	NoA
14	8	Iron	23685.78	13	13	28000	3220	NoB
14	8	Lead	44.95	13	13	36	400	NoA
14	8	Magnesium	6640	1	1	7700		NoB
14	8	Manganese	815.36	13	13	1500	419	NoB
14	8	Mercury	7.9	13	2	0.2	0.213	Yes
14	8	Molybdenum	0.78	13	1		23	NoA
14	8	Nickel	1299.73	13	13	21	10.4	Yes
14	8	PCB, Total	5	13	2		0.0648	Yes
14	8	Pyrene	0.069	1	1		81.2	NoA
14	8	Selenium	1.1	13	1	0.8	23	NoA
14	8	Silver	9.63	13	2	2.3	2.61	Yes
14	8	Sodium	93.4	1	1	320		NoB
14	8	Thallium	0.12	1	1	0.21	0.368	NoAB
14	8	Total PAH	0.062758	1	1		0.0197	Yes
14	8	Uranium	638.11	13	13	4.9	13.8	Yes
14	8	Vanadium	17.8	1	1	38	0.0365	NoB
14	8	Zinc	163.71	13	13	65	1380	NoA
14	8	Alpha activity	33.9	1	1			NoC
14	8	Americium-241	0.012	1	1		1.5	NoA
14	8	Beta activity	69.8	1	1			NoC
14	8	Cesium-137	0.207	1	1	0.49	0.0267	NoB
14	8	Neptunium-237	0.88	1	1	0.1	0.0839	Yes
14	8	Plutonium-238	0.0002	1	1	0.073	3.21	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
14	8	Plutonium-239/240	0.088	1	1	0.025	3.15	NoA
14	8	Technetium-99	30.9	1	1	2.5	101	NoA
14	8	Thorium-228	0.72	1	1	1.6		NoB
14	8	Thorium-230	0.96	1	1	1.5	4.1	NoAB
14	8	Thorium-232	0.73	1	1	1.5		NoB
14	8	Uranium-234	3.81	1	1	1.2	5.47	NoA
14	8	Uranium-235	0.238	1	1	0.06	0.122	Yes
14	8	Uranium-238	5.92	1	1	1.2	0.517	Yes
14	9	Acenaphthylene	0.042	1	1			NoC
14	9	Aluminum	7050	1	1	13000	4410	NoB
14	9	Anthracene	0.04	1	1		747	NoA
14	9	Antimony	2	1	1	0.21	0.552	Yes
14	9	Arsenic	23.57	13	7	12	0.238	Yes
14	9	Barium	126	1	1	200	140	NoAB
14	9	Benzo(ghi)perylene	0.23	1	1			NoC
14	9	Beryllium	0.41	1	1	0.67	0.00567	NoB
14	9	Cadmium	0.94	1	1	0.21	0.811	Yes
14	9	Calcium	88500	1	1	200000		NoB
14	9	Chromium	46.44	13	6	16	15.6	Yes
14	9	Cobalt	6.8	1	1	14	1.37	NoB
14	9	Copper	180.26	13	10	19	184	NoA
14	9	Fluoranthene	0.45	1	1		109	NoA
14	9	Iron	27773.15	13	13	28000	3220	NoB
14	9	Lead	70.88	13	13	36	400	NoA
14	9	Magnesium	4100	1	1	7700		NoB
14	9	Manganese	800	13	13	1500	419	NoB
14	9	Mercury	1.13	13	1	0.2	0.213	Yes
14	9	Molybdenum	10.04	13	2		23	NoA
14	9	Nickel	1724.92	13	12	21	10.4	Yes
14	9	PCB, Total	10	13	4		0.0648	Yes
14	9	Phenanthrene	0.12	1	1			NoC
14	9	Pyrene	0.48	1	1		81.2	NoA
14	9	Selenium	4.75	13	3	0.8	23	NoA
14	9	Silver	0.39	13	1	2.3	2.61	NoAB
14	9	Sodium	85.6	1	1	320		NoB
14	9	Thallium	0.29	1	1	0.21	0.368	NoA
14	9	Total PAH	0.48746	1	1		0.0197	Yes
14	9	Uranium	4600	14	14	4.9	13.8	Yes
14	9	Vanadium	21.8	1	1	38	0.0365	NoB
14	9	Zinc	195.15	13	13	65	1380	NoA
14	9	Alpha activity	4640	2	2			NoC
14	9	Americium-241	0.079	2	2		1.5	NoA
14	9	Beta activity	4200	2	2			NoC
14	9	Cesium-137	0.62	2	2	0.49	0.0267	Yes
14	9	Neptunium-237	16	2	2	0.1	0.0839	Yes
14	9	Plutonium-238	0.021	2	2	0.073	3.21	NoAB
14	9	Plutonium-239/240	0.393	2	2	0.025	3.15	NoA
14	9	Technetium-99	215	2	2	2.5	101	Yes
14	9	Thorium-228	0.79	2	2	1.6		NoB
14	9	Thorium-230	3.45	2	2	1.5	4.1	NoA
14	9	Thorium-232	0.75	2	2	1.5		NoB
14	9	Uranium-234	1070	2	2	1.2	5.47	Yes
14	9	Uranium-235	70	2	2	0.06	0.122	Yes
14	9	Uranium-238	1540	2	2	1.2	0.517	Yes
15	1	Acenaphthene	0.16	1	1		117	NoA
15	1	Aluminum	7770	1	1	13000	4410	NoB
15	1	Anthracene	0.28	1	1		747	NoA
15	1	Antimony	0.64	1	1	0.21	0.552	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
15	1	Arsenic	20.04	12	10	12	0.238	Yes
15	1	Barium	58.1	1	1	200	140	NoAB
15	1	Benzo(ghi)perylene	0.44	1	1			NoC
15	1	Beryllium	0.44	1	1	0.67	0.00567	NoB
15	1	Bis(2-ethylhexyl)phthalate	0.38	1	1			NoC
15	1	Cadmium	0.16	1	1	0.21	0.811	NoAB
15	1	Calcium	28100	1	1	200000		NoB
15	1	Chromium	56.1	12	4	16	15.6	Yes
15	1	Cobalt	8	1	1	14	1.37	NoB
15	1	Copper	303.4	12	9	19	184	Yes
15	1	Dibenzofuran	0.056	1	1			NoC
15	1	Fluoranthene	2.1	1	1		109	NoA
15	1	Fluorene	0.13	1	1		91.5	NoA
15	1	Iron	37400	12	12	28000	3220	Yes
15	1	Lead	55.35	12	11	36	400	NoA
15	1	Magnesium	6730	1	1	7700		NoB
15	1	Manganese	832.66	12	12	1500	419	NoB
15	1	Mercury	0.0328	12	1	0.2	0.213	NoAB
15	1	Molybdenum	4.2	12	1		23	NoA
15	1	Nickel	260.5	12	8	21	10.4	Yes
15	1	PCB, Total	0.078	12	1		0.0648	Yes
15	1	Phenanthrene	1.3	1	1			NoC
15	1	Pyrene	1.4	1	1		81.2	NoA
15	1	Selenium	0.74	12	1	0.8	23	NoAB
15	1	Silver	12.29	12	3	2.3	2.61	Yes
15	1	Sodium	63	1	1	320		NoB
15	1	Thallium	0.24	1	1	0.21	0.368	NoA
15	1	Total PAH	1.71437	1	1		0.0197	Yes
15	1	Uranium	45.33	12	8	4.9	13.8	Yes
15	1	Vanadium	29.6	1	1	38	0.0365	NoB
15	1	Zinc	197.59	12	12	65	1380	NoA
15	1	Alpha activity	31	1	1			NoC
15	1	Americium-241	0.0041	1	1		1.5	NoA
15	1	Beta activity	30	1	1			NoC
15	1	Cesium-137	0.093	1	1	0.49	0.0267	NoB
15	1	Neptunium-237	0.018	1	1	0.1	0.0839	NoAB
15	1	Plutonium-238	0.106	1	1	0.073	3.21	NoA
15	1	Plutonium-239/240	0.027	1	1	0.025	3.15	NoA
15	1	Technetium-99	1.72	1	1	2.5	101	NoAB
15	1	Thorium-228	0.566	1	1	1.6		NoB
15	1	Thorium-230	0.685	1	1	1.5	4.1	NoAB
15	1	Thorium-232	0.571	1	1	1.5		NoB
15	1	Uranium-234	1.52	1	1	1.2	5.47	NoA
15	1	Uranium-235	0.08	1	1	0.06	0.122	NoA
15	1	Uranium-238	1.85	1	1	1.2	0.517	Yes
15	10	Aluminum	4160	1	1	13000	4410	NoAB
15	10	Antimony	0.24	1	1	0.21	0.552	NoA
15	10	Arsenic	9.42	11	8	12	0.238	NoB
15	10	Barium	35.7	1	1	200	140	NoAB
15	10	Benzo(ghi)perylene	0.057	1	1			NoC
15	10	Beryllium	0.42	1	1	0.67	0.00567	NoB
15	10	Cadmium	0.07	1	1	0.21	0.811	NoAB
15	10	Calcium	2800	1	1	200000		NoB
15	10	Chromium	35.5	11	1	16	15.6	Yes
15	10	Cobalt	8.8	1	1	14	1.37	NoB
15	10	Copper	25.06	11	1	19	184	NoA
15	10	Fluoranthene	0.08	1	1		109	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
15	10	Iron	21267.96	11	11	28000	3220	NoB
15	10	Lead	15.05	11	7	36	400	NoAB
15	10	Magnesium	431	1	1	7700		NoB
15	10	Manganese	350.05	11	11	1500	419	NoAB
15	10	Mercury	7.84	11	1	0.2	0.213	Yes
15	10	Molybdenum	1.3	11	1		23	NoA
15	10	Nickel	226.39	11	8	21	10.4	Yes
15	10	Pyrene	0.089	1	1		81.2	NoA
15	10	Selenium	0.61	11	1	0.8	23	NoAB
15	10	Silver	10.81	11	3	2.3	2.61	Yes
15	10	Sodium	38.6	1	1	320		NoB
15	10	Total PAH	0.128447	1	1		0.0197	Yes
15	10	Uranium	90.15	11	4	4.9	13.8	Yes
15	10	Vanadium	21.5	1	1	38	0.0365	NoB
15	10	Zinc	239.58	11	11	65	1380	NoA
15	10	Alpha activity	23.7	1	1			NoC
15	10	Americium-241	0.004	1	1		1.5	NoA
15	10	Beta activity	29.4	1	1			NoC
15	10	Cesium-137	0.014	1	1	0.49	0.0267	NoAB
15	10	Neptunium-237	0.0039	1	1	0.1	0.0839	NoAB
15	10	Plutonium-238	0.027	1	1	0.073	3.21	NoAB
15	10	Plutonium-239/240	0.02	1	1	0.025	3.15	NoAB
15	10	Technetium-99	4.13	1	1	2.5	101	NoA
15	10	Thorium-228	0.429	1	1	1.6		NoB
15	10	Thorium-230	0.539	1	1	1.5	4.1	NoAB
15	10	Thorium-232	0.426	1	1	1.5		NoB
15	10	Uranium-234	0.7	1	1	1.2	5.47	NoAB
15	10	Uranium-235	0.048	1	1	0.06	0.122	NoAB
15	10	Uranium-238	0.91	1	1	1.2	0.517	NoB
15	2	2-Methylnaphthalene	0.052	1	1			NoC
15	2	Acenaphthene	0.46	1	1		117	NoA
15	2	Aluminum	8310	1	1	13000	4410	NoB
15	2	Anthracene	0.77	1	1		747	NoA
15	2	Antimony	0.66	1	1	0.21	0.552	Yes
15	2	Arsenic	16.26	10	6	12	0.238	Yes
15	2	Barium	64.1	1	1	200	140	NoAB
15	2	Benzo(ghi)perylene	0.89	1	1			NoC
15	2	Beryllium	0.51	1	1	0.67	0.00567	NoB
15	2	Bis(2-ethylhexyl)phthalate	0.048	1	1			NoC
15	2	Cadmium	0.14	1	1	0.21	0.811	NoAB
15	2	Calcium	20900	1	1	200000		NoB
15	2	Chromium	59	10	4	16	15.6	Yes
15	2	Cobalt	7.1	1	1	14	1.37	NoB
15	2	Copper	142.35	10	9	19	184	NoA
15	2	Dibenzofuran	0.2	1	1			NoC
15	2	Fluoranthene	3.6	1	1		109	NoA
15	2	Fluorene	0.39	1	1		91.5	NoA
15	2	Iron	38889.2	10	10	28000	3220	Yes
15	2	Lead	98.67	10	10	36	400	NoA
15	2	Magnesium	1340	1	1	7700		NoB
15	2	Manganese	1370.76	10	10	1500	419	NoB
15	2	Mercury	9.33	10	3	0.2	0.213	Yes
15	2	Molybdenum	0.99	10	1		23	NoA
15	2	Naphthalene	0.12	1	1		1.15	NoA
15	2	Nickel	197.26	10	10	21	10.4	Yes
15	2	PCB, Total	0.33	10	1		0.0648	Yes
15	2	Phenanthrene	2.9	1	1			NoC

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
15	2	Pyrene	3	1	1		81.2	NoA
15	2	Selenium	1	10	1	0.8	23	NoA
15	2	Silver	0.041	10	1	2.3	2.61	NoAB
15	2	Sodium	40.7	1	1	320		NoB
15	2	Thallium	0.16	1	1	0.21	0.368	NoAB
15	2	Total PAH	2.1078	1	1		0.0197	Yes
15	2	Uranium	131.7	11	10	4.9	13.8	Yes
15	2	Vanadium	32.7	1	1	38	0.0365	NoB
15	2	Zinc	255.82	10	10	65	1380	NoA
15	2	Alpha activity	58	2	2			NoC
15	2	Americium-241	0.011	2	2		1.5	NoA
15	2	Beta activity	49.4	2	2			NoC
15	2	Cesium-137	0.041	2	2	0.49	0.0267	NoB
15	2	Neptunium-237	0.135	2	2	0.1	0.0839	Yes
15	2	Plutonium-238	0.009	2	2	0.073	3.21	NoAB
15	2	Plutonium-239/240	0.071	2	2	0.025	3.15	NoA
15	2	Technetium-99	11.3	2	2	2.5	101	NoA
15	2	Thorium-228	0.94	2	2	1.6		NoB
15	2	Thorium-230	1.08	2	2	1.5	4.1	NoAB
15	2	Thorium-232	0.79	2	2	1.5		NoB
15	2	Uranium-234	6.51	2	2	1.2	5.47	Yes
15	2	Uranium-235	0.38	2	2	0.06	0.122	Yes
15	2	Uranium-238	12.1	2	2	1.2	0.517	Yes
15	3	Acenaphthene	0.1	1	1		117	NoA
15	3	Acenaphthylene	0.042	1	1			NoC
15	3	Aluminum	8790	1	1	13000	4410	NoB
15	3	Anthracene	0.24	1	1		747	NoA
15	3	Antimony	24.5	1	1	0.21	0.552	Yes
15	3	Arsenic	62.55	12	9	12	0.238	Yes
15	3	Barium	116	1	1	200	140	NoAB
15	3	Benzo(ghi)perylene	0.37	1	1			NoC
15	3	Benzoic acid	0.39	1	1			NoC
15	3	Beryllium	0.76	1	1	0.67	0.00567	Yes
15	3	Bis(2-ethylhexyl)phthalate	0.39	1	1			NoC
15	3	Cadmium	11.9	1	1	0.21	0.811	Yes
15	3	Calcium	36700	1	1	200000		NoB
15	3	Chromium	112	12	9	16	15.6	Yes
15	3	Cobalt	34.1	1	1	14	1.37	Yes
15	3	Copper	4360	12	11	19	184	Yes
15	3	Dibenzofuran	0.044	1	1			NoC
15	3	Di-n-butyl phthalate	0.063	1	1			NoC
15	3	Fluoranthene	1.7	1	1		109	NoA
15	3	Fluorene	0.086	1	1		91.5	NoA
15	3	Iron	171000	12	12	28000	3220	Yes
15	3	Lead	827	12	12	36	400	Yes
15	3	Magnesium	4380	1	1	7700		NoB
15	3	Manganese	2850	12	12	1500	419	Yes
15	3	Mercury	2.74	12	1	0.2	0.213	Yes
15	3	Molybdenum	23.6	12	1		23	Yes
15	3	Nickel	2410	12	10	21	10.4	Yes
15	3	PCB, Total	10	12	3		0.0648	Yes
15	3	Phenanthrene	0.89	1	1			NoC
15	3	Pyrene	1.3	1	1		81.2	NoA
15	3	Selenium	26.71	12	2	0.8	23	Yes
15	3	Silver	3.2	12	1	2.3	2.61	Yes
15	3	Sodium	266	1	1	320		NoB
15	3	Thallium	0.26	1	1	0.21	0.368	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
15	3	Total PAH	1.4541	1	1		0.0197	Yes
15	3	Uranium	459	12	11	4.9	13.8	Yes
15	3	Vanadium	32.8	1	1	38	0.0365	NoB
15	3	Zinc	1830	12	12	65	1380	Yes
15	3	Alpha activity	201	1	1			NoC
15	3	Americium-241	0.437	1	1		1.5	NoA
15	3	Beta activity	744	1	1			NoC
15	3	Cesium-137	0.2	1	1	0.49	0.0267	NoB
15	3	Neptunium-237	4.1	1	1	0.1	0.0839	Yes
15	3	Plutonium-238	0.12	1	1	0.073	3.21	NoA
15	3	Plutonium-239/240	2.78	1	1	0.025	3.15	NoA
15	3	Technetium-99	367	1	1	2.5	101	Yes
15	3	Thorium-228	0.52	1	1	1.6		NoB
15	3	Thorium-230	7.23	1	1	1.5	4.1	Yes
15	3	Thorium-232	0.46	1	1	1.5		NoB
15	3	Uranium-234	69.6	1	1	1.2	5.47	Yes
15	3	Uranium-235	4.21	1	1	0.06	0.122	Yes
15	3	Uranium-238	96.7	1	1	1.2	0.517	Yes
15	4	Acenaphthene	0.17	1	1		117	NoA
15	4	Acenaphthylene	0.13	1	1			NoC
15	4	Aluminum	8490	1	1	13000	4410	NoB
15	4	Anthracene	0.45	1	1		747	NoA
15	4	Antimony	7.4	1	1	0.21	0.552	Yes
15	4	Arsenic	51.31	14	10	12	0.238	Yes
15	4	Barium	86.1	1	1	200	140	NoAB
15	4	Benzo(ghi)perylene	0.53	1	1			NoC
15	4	Benzoic acid	0.37	1	1			NoC
15	4	Beryllium	0.61	1	1	0.67	0.00567	NoB
15	4	Bis(2-ethylhexyl)phthalate	0.086	1	1			NoC
15	4	Butyl benzyl phthalate	0.039	1	1			NoC
15	4	Cadmium	1.4	1	1	0.21	0.811	Yes
15	4	Calcium	25600	1	1	200000		NoB
15	4	Chromium	150.66	14	11	16	15.6	Yes
15	4	Cobalt	7.8	1	1	14	1.37	NoB
15	4	Copper	1273.93	14	14	19	184	Yes
15	4	Dibenzofuran	0.086	1	1			NoC
15	4	Fluoranthene	2.8	1	1		109	NoA
15	4	Fluorene	0.14	1	1		91.5	NoA
15	4	Iron	142401.3	14	14	28000	3220	Yes
15	4	Lead	1040.18	14	14	36	400	Yes
15	4	Magnesium	2640	1	1	7700		NoB
15	4	Manganese	2487.8	14	14	1500	419	Yes
15	4	Mercury	15.28	14	3	0.2	0.213	Yes
15	4	Molybdenum	20.54	14	6		23	NoA
15	4	Nickel	3787.15	14	14	21	10.4	Yes
15	4	PCB, Total	50	15	12		0.0648	Yes
15	4	Phenanthrene	1.5	1	1			NoC
15	4	Pyrene	2.1	1	1		81.2	NoA
15	4	Selenium	1.4	14	1	0.8	23	NoA
15	4	Silver	17.99	14	2	2.3	2.61	Yes
15	4	Sodium	53	1	1	320		NoB
15	4	Thallium	0.21	1	1	0.21	0.368	NoA
15	4	Total PAH	2.4449	1	1		0.0197	Yes
15	4	Uranium	259.26	14	14	4.9	13.8	Yes
15	4	Vanadium	25.6	1	1	38	0.0365	NoB
15	4	Zinc	2178.29	14	14	65	1380	Yes
15	4	Alpha activity	71	1	1			NoC

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
15	4	Americium-241	0.074	1	1		1.5	NoA
15	4	Beta activity	187	1	1			NoC
15	4	Cesium-137	0.14	1	1	0.49	0.0267	NoB
15	4	Neptunium-237	0.8	1	1	0.1	0.0839	Yes
15	4	Plutonium-238	0.018	1	1	0.073	3.21	NoAB
15	4	Plutonium-239/240	0.39	1	1	0.025	3.15	NoA
15	4	Technetium-99	46.3	1	1	2.5	101	NoA
15	4	Thorium-228	0.563	1	1	1.6		NoB
15	4	Thorium-230	2.39	1	1	1.5	4.1	NoA
15	4	Thorium-232	0.544	1	1	1.5		NoB
15	4	Uranium-234	10.7	1	1	1.2	5.47	Yes
15	4	Uranium-235	0.43	1	1	0.06	0.122	Yes
15	4	Uranium-238	18.7	1	1	1.2	0.517	Yes
15	5	Acenaphthene	0.036	1	1		117	NoA
15	5	Aluminum	7070	1	1	13000	4410	NoB
15	5	Anthracene	0.064	1	1		747	NoA
15	5	Antimony	3.1	1	1	0.21	0.552	Yes
15	5	Arsenic	19.15	12	5	12	0.238	Yes
15	5	Barium	90.8	1	1	200	140	NoAB
15	5	Benzo(ghi)perylene	0.16	1	1			NoC
15	5	Beryllium	0.38	1	1	0.67	0.00567	NoB
15	5	Cadmium	1.5	1	1	0.21	0.811	Yes
15	5	Calcium	134000	1	1	200000		NoB
15	5	Chromium	42.79	12	3	16	15.6	Yes
15	5	Cobalt	7.1	1	1	14	1.37	NoB
15	5	Copper	6122.47	12	12	19	184	Yes
15	5	Fluoranthene	0.48	1	1		109	NoA
15	5	Iron	26371.24	12	12	28000	3220	NoB
15	5	Lead	139.05	12	12	36	400	NoA
15	5	Magnesium	3890	1	1	7700		NoB
15	5	Manganese	718.51	12	12	1500	419	NoB
15	5	Mercury	0.338	12	1	0.2	0.213	Yes
15	5	Molybdenum	1.8	12	1		23	NoA
15	5	Nickel	676	12	7	21	10.4	Yes
15	5	PCB, Total	50	12	4		0.0648	Yes
15	5	Phenanthrene	0.28	1	1			NoC
15	5	Pyrene	0.43	1	1		81.2	NoA
15	5	Selenium	1.1	12	1	0.8	23	NoA
15	5	Silver	14.99	12	5	2.3	2.61	Yes
15	5	Sodium	109	1	1	320		NoB
15	5	Thallium	0.091	1	1	0.21	0.368	NoAB
15	5	Total PAH	0.5106	1	1		0.0197	Yes
15	5	Uranium	364.2	12	9	4.9	13.8	Yes
15	5	Vanadium	20.1	1	1	38	0.0365	NoB
15	5	Zinc	3168.62	12	12	65	1380	Yes
15	5	Alpha activity	84	1	1			NoC
15	5	Americium-241	0.034	1	1		1.5	NoA
15	5	Beta activity	150	1	1			NoC
15	5	Cesium-137	0	1	1	0.49	0.0267	NoAB
15	5	Neptunium-237	0.69	1	1	0.1	0.0839	Yes
15	5	Plutonium-238	0.014	1	1	0.073	3.21	NoAB
15	5	Plutonium-239/240	0.104	1	1	0.025	3.15	NoA
15	5	Technetium-99	107	1	1	2.5	101	Yes
15	5	Thorium-228	0.475	1	1	1.6		NoB
15	5	Thorium-230	0.94	1	1	1.5	4.1	NoAB
15	5	Thorium-232	0.456	1	1	1.5		NoB
15	5	Uranium-234	5.83	1	1	1.2	5.47	Yes
15	5	Uranium-235	0.46	1	1	0.06	0.122	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
15	5	Uranium-238	10.3	1	1	1.2	0.517	Yes
15	6	Acenaphthene	0.2	1	1		117	NoA
15	6	Aluminum	9250	1	1	13000	4410	NoB
15	6	Anthracene	0.38	1	1		747	NoA
15	6	Antimony	5.1	1	1	0.21	0.552	Yes
15	6	Arsenic	18.04	13	5	12	0.238	Yes
15	6	Barium	108	1	1	200	140	NoAB
15	6	Benzo(ghi)perylene	0.44	1	1			NoC
15	6	Beryllium	0.48	1	1	0.67	0.00567	NoB
15	6	Cadmium	1.5	1	1	0.21	0.811	Yes
15	6	Calcium	156000	1	1	200000		NoB
15	6	Chromium	57.97	13	4	16	15.6	Yes
15	6	Cobalt	16.2	1	1	14	1.37	Yes
15	6	Copper	793.22	13	11	19	184	Yes
15	6	Dibenzofuran	0.087	1	1			NoC
15	6	Fluoranthene	2.4	1	1		109	NoA
15	6	Fluorene	0.19	1	1		91.5	NoA
15	6	Iron	54500	13	13	28000	3220	Yes
15	6	Lead	169.9	13	13	36	400	NoA
15	6	Magnesium	5830	1	1	7700		NoB
15	6	Manganese	1072.34	13	13	1500	419	NoB
15	6	Mercury	0.41	13	1	0.2	0.213	Yes
15	6	Molybdenum	3.4	13	1		23	NoA
15	6	Nickel	616.54	13	11	21	10.4	Yes
15	6	PCB, Total	10	13	4		0.0648	Yes
15	6	Phenanthrene	1.8	1	1			NoC
15	6	Pyrene	1.9	1	1		81.2	NoA
15	6	Selenium	1.4	13	1	0.8	23	NoA
15	6	Silver	10.91	13	2	2.3	2.61	Yes
15	6	Sodium	152	1	1	320		NoB
15	6	Thallium	0.14	1	1	0.21	0.368	NoAB
15	6	Total PAH	1.6235	1	1		0.0197	Yes
15	6	Uranium	112	13	9	4.9	13.8	Yes
15	6	Vanadium	24.3	1	1	38	0.0365	NoB
15	6	Zinc	719.23	13	13	65	1380	NoA
15	6	Alpha activity	63	1	1			NoC
15	6	Americium-241	0.016	1	1		1.5	NoA
15	6	Beta activity	132	1	1			NoC
15	6	Cesium-137	-0.005	1	1	0.49	0.0267	NoAB
15	6	Neptunium-237	0.64	1	1	0.1	0.0839	Yes
15	6	Plutonium-238	0.026	1	1	0.073	3.21	NoAB
15	6	Plutonium-239/240	0.17	1	1	0.025	3.15	NoA
15	6	Technetium-99	32.5	1	1	2.5	101	NoA
15	6	Thorium-228	0.71	1	1	1.6		NoB
15	6	Thorium-230	1.94	1	1	1.5	4.1	NoA
15	6	Thorium-232	0.86	1	1	1.5		NoB
15	6	Uranium-234	8.74	1	1	1.2	5.47	Yes
15	6	Uranium-235	0.57	1	1	0.06	0.122	Yes
15	6	Uranium-238	15.4	1	1	1.2	0.517	Yes
15	7	Aluminum	8360	1	1	13000	4410	NoB
15	7	Antimony	0.75	1	1	0.21	0.552	Yes
15	7	Arsenic	33.09	12	8	12	0.238	Yes
15	7	Barium	69.5	1	1	200	140	NoAB
15	7	Benzo(ghi)perylene	0.054	1	1			NoC
15	7	Beryllium	0.47	1	1	0.67	0.00567	NoB
15	7	Cadmium	1	1	1	0.21	0.811	Yes
15	7	Calcium	96800	1	1	200000		NoB
15	7	Chromium	78.71	12	6	16	15.6	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
15	7	Cobalt	10.9	1	1	14	1.37	NoB
15	7	Copper	1803.24	12	10	19	184	Yes
15	7	Fluoranthene	0.19	1	1		109	NoA
15	7	Iron	60521.86	12	12	28000	3220	Yes
15	7	Lead	278.59	12	12	36	400	NoA
15	7	Magnesium	3130	1	1	7700		NoB
15	7	Manganese	2903.39	12	12	1500	419	Yes
15	7	Mercury	0.0744	12	1	0.2	0.213	NoAB
15	7	Molybdenum	2.2	12	1		23	NoA
15	7	Nickel	834.44	12	10	21	10.4	Yes
15	7	PCB, Total	50	12	5		0.0648	Yes
15	7	Phenanthrene	0.11	1	1			NoC
15	7	Pyrene	0.15	1	1		81.2	NoA
15	7	Selenium	4.99	12	2	0.8	23	NoA
15	7	Silver	12.86	12	2	2.3	2.61	Yes
15	7	Sodium	100	1	1	320		NoB
15	7	Thallium	0.3	1	1	0.21	0.368	NoA
15	7	Total PAH	0.15884	1	1		0.0197	Yes
15	7	Uranium	82.92	12	9	4.9	13.8	Yes
15	7	Vanadium	27.3	1	1	38	0.0365	NoB
15	7	Zinc	1392.97	12	12	65	1380	Yes
15	7	Alpha activity	43	1	1			NoC
15	7	Americium-241	0.01	1	1		1.5	NoA
15	7	Beta activity	73.2	1	1			NoC
15	7	Cesium-137	-0.011	1	1	0.49	0.0267	NoAB
15	7	Neptunium-237	0.223	1	1	0.1	0.0839	Yes
15	7	Plutonium-238	0.046	1	1	0.073	3.21	NoAB
15	7	Plutonium-239/240	0.116	1	1	0.025	3.15	NoA
15	7	Technetium-99	12.8	1	1	2.5	101	NoA
15	7	Thorium-228	0.563	1	1	1.6		NoB
15	7	Thorium-230	1.06	1	1	1.5	4.1	NoAB
15	7	Thorium-232	0.528	1	1	1.5		NoB
15	7	Uranium-234	6.49	1	1	1.2	5.47	Yes
15	7	Uranium-235	0.45	1	1	0.06	0.122	Yes
15	7	Uranium-238	8.05	1	1	1.2	0.517	Yes
15	8	Aluminum	7190	1	1	13000	4410	NoB
15	8	Anthracene	0.065	1	1		747	NoA
15	8	Antimony	5.4	1	1	0.21	0.552	Yes
15	8	Arsenic	13.83	12	8	12	0.238	Yes
15	8	Barium	60.1	1	1	200	140	NoAB
15	8	Benzo(ghi)perylene	0.14	1	1			NoC
15	8	Beryllium	0.48	1	1	0.67	0.00567	NoB
15	8	Cadmium	0.74	1	1	0.21	0.811	NoA
15	8	Calcium	29300	1	1	200000		NoB
15	8	Chromium	97.61	12	7	16	15.6	Yes
15	8	Cobalt	8.5	1	1	14	1.37	NoB
15	8	Copper	271.75	12	11	19	184	Yes
15	8	Fluoranthene	0.51	1	1		109	NoA
15	8	Iron	39124.51	12	12	28000	3220	Yes
15	8	Lead	78.61	12	12	36	400	NoA
15	8	Magnesium	2470	1	1	7700		NoB
15	8	Manganese	934.59	12	12	1500	419	NoB
15	8	Mercury	10.04	12	2	0.2	0.213	Yes
15	8	Molybdenum	1.5	12	1		23	NoA
15	8	Nickel	318.08	12	10	21	10.4	Yes
15	8	PCB, Total	4.9	12	1		0.0648	Yes
15	8	Phenanthrene	0.31	1	1			NoC
15	8	Pyrene	0.44	1	1		81.2	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
15	8	Selenium	0.95	12	1	0.8	23	NoA
15	8	Silver	14.24	12	2	2.3	2.61	Yes
15	8	Sodium	80.6	1	1	320		NoB
15	8	Thallium	0.065	1	1	0.21	0.368	NoAB
15	8	Total PAH	0.35879	1	1		0.0197	Yes
15	8	Uranium	81.68	12	12	4.9	13.8	Yes
15	8	Vanadium	31.8	1	1	38	0.0365	NoB
15	8	Zinc	628.99	12	12	65	1380	NoA
15	8	Alpha activity	42.9	1	1			NoC
15	8	Americium-241	0.02	1	1		1.5	NoA
15	8	Beta activity	99	1	1			NoC
15	8	Cesium-137	-0.0004	1	1	0.49	0.0267	NoAB
15	8	Neptunium-237	0.365	1	1	0.1	0.0839	Yes
15	8	Plutonium-238	0.024	1	1	0.073	3.21	NoAB
15	8	Plutonium-239/240	0.123	1	1	0.025	3.15	NoA
15	8	Technetium-99	0.42	1	1	2.5	101	NoAB
15	8	Thorium-228	0.558	1	1	1.6		NoB
15	8	Thorium-230	1.61	1	1	1.5	4.1	NoA
15	8	Thorium-232	0.532	1	1	1.5		NoB
15	8	Uranium-234	4.5	1	1	1.2	5.47	NoA
15	8	Uranium-235	0.304	1	1	0.06	0.122	Yes
15	8	Uranium-238	6.64	1	1	1.2	0.517	Yes
15	9	Aluminum	6830	1	1	13000	4410	NoB
15	9	Antimony	0.28	1	1	0.21	0.552	NoA
15	9	Arsenic	12.41	13	7	12	0.238	Yes
15	9	Barium	58.9	1	1	200	140	NoAB
15	9	Benzo(ghi)perylene	0.11	1	1			NoC
15	9	Beryllium	0.61	1	1	0.67	0.00567	NoB
15	9	Cadmium	0.075	1	1	0.21	0.811	NoAB
15	9	Calcium	7790	1	1	200000		NoB
15	9	Chromium	140.57	13	3	16	15.6	Yes
15	9	Cobalt	12	1	1	14	1.37	NoB
15	9	Copper	293.87	13	11	19	184	Yes
15	9	Fluoranthene	0.27	1	1		109	NoA
15	9	Iron	34774.83	13	13	28000	3220	Yes
15	9	Lead	87.31	13	12	36	400	NoA
15	9	Magnesium	575	1	1	7700		NoB
15	9	Manganese	805.63	13	13	1500	419	NoB
15	9	Mercury	0.178	13	1	0.2	0.213	NoAB
15	9	Molybdenum	1.8	13	1		23	NoA
15	9	Nickel	208.34	13	9	21	10.4	Yes
15	9	PCB, Total	0.33	13	1		0.0648	Yes
15	9	Phenanthrene	0.13	1	1			NoC
15	9	Pyrene	0.27	1	1		81.2	NoA
15	9	Selenium	0.72	13	1	0.8	23	NoAB
15	9	Silver	15.42	13	4	2.3	2.61	Yes
15	9	Sodium	43.1	1	1	320		NoB
15	9	Thallium	0.14	1	1	0.21	0.368	NoAB
15	9	Total PAH	0.23832	1	1		0.0197	Yes
15	9	Uranium	43.96	13	12	4.9	13.8	Yes
15	9	Vanadium	31.9	1	1	38	0.0365	NoB
15	9	Zinc	487.87	13	13	65	1380	NoA
15	9	Alpha activity	40.5	1	1			NoC
15	9	Americium-241	0.021	1	1		1.5	NoA
15	9	Beta activity	67.1	1	1			NoC
15	9	Cesium-137	0.006	1	1	0.49	0.0267	NoAB
15	9	Neptunium-237	0.128	1	1	0.1	0.0839	Yes
15	9	Plutonium-238	0.015	1	1	0.073	3.21	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
15	9	Plutonium-239/240	0.042	1	1	0.025	3.15	NoA
15	9	Technetium-99	0.1	1	1	2.5	101	NoAB
15	9	Thorium-228	0.55	1	1	1.6		NoB
15	9	Thorium-230	0.88	1	1	1.5	4.1	NoAB
15	9	Thorium-232	0.57	1	1	1.5		NoB
15	9	Uranium-234	4.33	1	1	1.2	5.47	NoA
15	9	Uranium-235	0.242	1	1	0.06	0.122	Yes
15	9	Uranium-238	7.12	1	1	1.2	0.517	Yes
153	1	Aluminum	8680	1	1	13000	4410	NoB
153	1	Antimony	0.3	1	1	0.21	0.552	NoA
153	1	Arsenic	7.4	1	1	12	0.238	NoB
153	1	Barium	92.2	1	1	200	140	NoAB
153	1	Beryllium	0.49	1	1	0.67	0.00567	NoB
153	1	Cadmium	0.066	1	1	0.21	0.811	NoAB
153	1	Calcium	15500	1	1	200000		NoB
153	1	Chromium	15.7	1	1	16	15.6	NoB
153	1	Cobalt	7.3	1	1	14	1.37	NoB
153	1	Copper	10	1	1	19	184	NoAB
153	1	Fluoranthene	0.13	1	1		109	NoA
153	1	Iron	16000	1	1	28000	3220	NoB
153	1	Lead	12	1	1	36	400	NoAB
153	1	Magnesium	2010	1	1	7700		NoB
153	1	Manganese	449	1	1	1500	419	NoB
153	1	Mercury	0.0199	1	1	0.2	0.213	NoAB
153	1	Molybdenum	1	1	1		23	NoA
153	1	Nickel	13.2	1	1	21	10.4	NoB
153	1	PCB, Total	0.6	2	1		0.0648	Yes
153	1	Phenanthrene	0.055	1	1			NoC
153	1	Pyrene	0.091	1	1		81.2	NoA
153	1	Selenium	1.1	1	1	0.8	23	NoA
153	1	Silver	0.034	1	1	2.3	2.61	NoAB
153	1	Sodium	59	1	1	320		NoB
153	1	Thallium	0.33	1	1	0.21	0.368	NoA
153	1	Total PAH	0.086913	1	1		0.0197	Yes
153	1	Uranium	3.42	1	1	4.9	13.8	NoAB
153	1	Vanadium	29.2	1	1	38	0.0365	NoB
153	1	Zinc	38.57	1	1	65	1380	NoAB
153	1	Alpha activity	33.3	1	1			NoC
153	1	Americium-241	0.005	1	1		1.5	NoA
153	1	Beta activity	27.4	1	1			NoC
153	1	Cesium-137	0.085	1	1	0.49	0.0267	NoB
153	1	Neptunium-237	-0.0024	1	1	0.1	0.0839	NoAB
153	1	Plutonium-238	0.018	1	1	0.073	3.21	NoAB
153	1	Plutonium-239/240	0.007	1	1	0.025	3.15	NoAB
153	1	Technetium-99	0.32	1	1	2.5	101	NoAB
153	1	Thorium-228	0.78	1	1	1.6		NoB
153	1	Thorium-230	1	1	1	1.5	4.1	NoAB
153	1	Thorium-232	0.9	1	1	1.5		NoB
153	1	Uranium-234	1.2	1	1	1.2	5.47	NoA
153	1	Uranium-235	0.076	1	1	0.06	0.122	NoA
153	1	Uranium-238	1.14	1	1	1.2	0.517	NoB
154	1	2-Methylnaphthalene	0.062	1	1			NoC
154	1	Acenaphthene	0.15	1	1		117	NoA
154	1	Aluminum	5530	2	2	13000	4410	NoB
154	1	Anthracene	0.14	1	1		747	NoA
154	1	Antimony	0.43	2	2	0.21	0.552	NoA
154	1	Arsenic	15.17	6	4	12	0.238	Yes
154	1	Barium	58.4	2	2	200	140	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
154	1	Benzo(ghi)perylene	0.2	1	1			NoC
154	1	Beryllium	0.44	2	2	0.67	0.00567	NoB
154	1	Cadmium	0.19	2	2	0.21	0.811	NoAB
154	1	Calcium	218000	2	2	200000		NoE
154	1	Chromium	42.76	6	4	16	15.6	Yes
154	1	Cobalt	5.7	2	2	14	1.37	NoB
154	1	Copper	9.4	6	2	19	184	NoAB
154	1	Dibenzofuran	0.1	1	1			NoC
154	1	Fluoranthene	1.7	1	1		109	NoA
154	1	Fluorene	0.064	1	1		91.5	NoA
154	1	Iron	17600	6	6	28000	3220	NoB
154	1	Lead	56.17	6	5	36	400	NoA
154	1	Magnesium	4140	2	2	7700		NoB
154	1	Manganese	1016.96	6	6	1500	419	NoB
154	1	Mercury	0.0466	6	2	0.2	0.213	NoAB
154	1	Molybdenum	0.56	6	2		23	NoA
154	1	Naphthalene	0.043	1	1		1.15	NoA
154	1	Nickel	98.87	6	4	21	10.4	Yes
154	1	PCB, Total	3.2	6	4		0.0648	Yes
154	1	Phenanthrene	1	1	1			NoC
154	1	Pyrene	1	1	1		81.2	NoA
154	1	Selenium	4.71	6	3	0.8	23	NoA
154	1	Silver	0.046	6	2	2.3	2.61	NoAB
154	1	Sodium	112	2	2	320		NoB
154	1	Thallium	0.24	2	2	0.21	0.368	NoA
154	1	Total PAH	1.04045	1	1		0.0197	Yes
154	1	Uranium	38.18	6	4	4.9	13.8	Yes
154	1	Vanadium	27	2	2	38	0.0365	NoB
154	1	Zinc	88.19	6	6	65	1380	NoA
154	1	Alpha activity	28.6	1	1			NoC
154	1	Americium-241	0.004	1	1		1.5	NoA
154	1	Beta activity	29.5	1	1			NoC
154	1	Cesium-137	0.104	1	1	0.49	0.0267	NoB
154	1	Neptunium-237	0.035	1	1	0.1	0.0839	NoAB
154	1	Plutonium-238	0.02	1	1	0.073	3.21	NoAB
154	1	Plutonium-239/240	0.01	1	1	0.025	3.15	NoAB
154	1	Technetium-99	0.93	1	1	2.5	101	NoAB
154	1	Thorium-228	0.25	1	1	1.6		NoB
154	1	Thorium-230	0.46	1	1	1.5	4.1	NoAB
154	1	Thorium-232	0.209	1	1	1.5		NoB
154	1	Uranium-234	1.12	1	1	1.2	5.47	NoAB
154	1	Uranium-235	0.091	1	1	0.06	0.122	NoA
154	1	Uranium-238	3.06	1	1	1.2	0.517	Yes
154	2	PCB, Total	0.4	1	1		0.0648	Yes
155	1	Aluminum	1460	1	1	13000	4410	NoAB
155	1	Antimony	5.06	2	2	0.21	0.552	Yes
155	1	Arsenic	9.01	11	6	12	0.238	NoB
155	1	Barium	54.6	4	3	200	140	NoAB
155	1	Beryllium	0.15	1	1	0.67	0.00567	NoB
155	1	Cadmium	0.42	4	1	0.21	0.811	NoA
155	1	Calcium	413000	1	1	200000		NoE
155	1	Chromium	34.7	11	3	16	15.6	Yes
155	1	Cobalt	2.3	1	1	14	1.37	NoB
155	1	Copper	3	8	1	19	184	NoAB
155	1	Iron	14727.5	8	8	28000	3220	NoB
155	1	Lead	33.42	11	7	36	400	NoAB
155	1	Magnesium	8730	1	1	7700		NoE
155	1	Manganese	294.49	8	8	1500	419	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
155	1	Molybdenum	0.53	8	1		23	NoA
155	1	Nickel	92.05	11	4	21	10.4	Yes
155	1	PCB, Total	17	11	2		0.0648	Yes
155	1	Selenium	0.5	11	2	0.8	23	NoAB
155	1	Silver	15.48	11	2	2.3	2.61	Yes
155	1	Sodium	134	1	1	320		NoB
155	1	Total PAH	0.0098	1	1		0.0197	NoA
155	1	Uranium	2.3	8	1	4.9	13.8	NoAB
155	1	Vanadium	4.8	1	1	38	0.0365	NoB
155	1	Zinc	71.86	8	8	65	1380	NoA
155	1	Alpha activity	6	1	1			NoC
155	1	Americium-241	0.0033	1	1		1.5	NoA
155	1	Beta activity	15.2	1	1			NoC
155	1	Cesium-137	0.0006	1	1	0.49	0.0267	NoAB
155	1	Neptunium-237	0.103	1	1	0.1	0.0839	Yes
155	1	Plutonium-238	0.0141	1	1	0.073	3.21	NoAB
155	1	Plutonium-239/240	0.0064	1	1	0.025	3.15	NoAB
155	1	Technetium-99	17	2	2	2.5	101	NoA
155	1	Thorium-228	0.57	1	1	1.6		NoB
155	1	Thorium-230	0.45	1	1	1.5	4.1	NoAB
155	1	Thorium-232	0.13	1	1	1.5		NoB
155	1	Uranium-234	0.264	1	1	1.2	5.47	NoAB
155	1	Uranium-235	0.025	1	1	0.06	0.122	NoAB
155	1	Uranium-238	0.368	1	1	1.2	0.517	NoAB
156	1	Aluminum	8050	1	1	13000	4410	NoB
156	1	Antimony	0.43	1	1	0.21	0.552	NoA
156	1	Arsenic	11.1	12	7	12	0.238	NoB
156	1	Barium	104	1	1	200	140	NoAB
156	1	Benzo(ghi)perylene	0.039	1	1			NoC
156	1	Beryllium	0.52	1	1	0.67	0.00567	NoB
156	1	Bis(2-ethylhexyl)phthalate	0.071	1	1			NoC
156	1	Cadmium	0.12	1	1	0.21	0.811	NoAB
156	1	Calcium	7500	1	1	200000		NoB
156	1	Chromium	49.03	12	6	16	15.6	Yes
156	1	Cobalt	7.6	1	1	14	1.37	NoB
156	1	Copper	22.97	12	3	19	184	NoA
156	1	Fluoranthene	0.12	1	1		109	NoA
156	1	Iron	15131.27	12	12	28000	3220	NoB
156	1	Lead	41.2	12	12	36	400	NoA
156	1	Magnesium	1340	1	1	7700		NoB
156	1	Manganese	2832.92	12	12	1500	419	Yes
156	1	Mercury	9.87	12	3	0.2	0.213	Yes
156	1	Molybdenum	0.66	12	1		23	NoA
156	1	Nickel	61.61	12	2	21	10.4	Yes
156	1	PCB, Total	0.3	11	1		0.0648	Yes
156	1	Phenanthrene	0.042	1	1			NoC
156	1	Pyrene	0.099	1	1		81.2	NoA
156	1	Selenium	1.3	12	1	0.8	23	NoA
156	1	Silver	0.033	12	1	2.3	2.61	NoAB
156	1	Sodium	70	1	1	320		NoB
156	1	Thallium	0.25	1	1	0.21	0.368	NoA
156	1	Total PAH	0.082604	1	1		0.0197	Yes
156	1	Uranium	23.19	12	5	4.9	13.8	Yes
156	1	Vanadium	25.9	1	1	38	0.0365	NoB
156	1	Zinc	64.42	12	12	65	1380	NoAB
156	1	Alpha activity	19.8	1	1			NoC
156	1	Americium-241	-0.0044	1	1		1.5	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
156	1	Beta activity	32.3	1	1			NoC
156	1	Cesium-137	0.041	1	1	0.49	0.0267	NoB
156	1	Neptunium-237	0.0028	1	1	0.1	0.0839	NoAB
156	1	Plutonium-238	0.021	1	1	0.073	3.21	NoAB
156	1	Plutonium-239/240	0.013	1	1	0.025	3.15	NoAB
156	1	Technetium-99	1.94	1	1	2.5	101	NoAB
156	1	Thorium-228	1.14	1	1	1.6		NoB
156	1	Thorium-230	1.02	1	1	1.5	4.1	NoAB
156	1	Thorium-232	1.03	1	1	1.5		NoB
156	1	Uranium-234	2	1	1	1.2	5.47	NoA
156	1	Uranium-235	0.116	1	1	0.06	0.122	NoA
156	1	Uranium-238	2.19	1	1	1.2	0.517	Yes
158	1	Acenaphthene	0.083	3	1		117	NoA
158	1	Aluminum	8970	4	4	13000	4410	NoB
158	1	Anthracene	0.13	3	2		747	NoA
158	1	Antimony	0.7	4	3	0.21	0.552	Yes
158	1	Arsenic	12.83	27	15	12	0.238	Yes
158	1	Barium	292	4	4	200	140	Yes
158	1	Benzo(ghi)perylene	0.26	3	2			NoC
158	1	Beryllium	0.63	4	4	0.67	0.00567	NoB
158	1	Cadmium	0.39	4	4	0.21	0.811	NoA
158	1	Calcium	7320	4	4	200000		NoB
158	1	Chromium	61.58	27	13	16	15.6	Yes
158	1	Cobalt	36.5	4	4	14	1.37	Yes
158	1	Copper	43.42	27	10	19	184	NoA
158	1	Fluoranthene	1	3	2		109	NoA
158	1	Fluorene	0.057	3	1		91.5	NoA
158	1	Iron	20900	27	27	28000	3220	NoB
158	1	Lead	94.32	27	26	36	400	NoA
158	1	Magnesium	1530	4	4	7700		NoB
158	1	Manganese	1860	27	27	1500	419	Yes
158	1	Mercury	10.46	27	5	0.2	0.213	Yes
158	1	Molybdenum	1.2	27	4		23	NoA
158	1	Nickel	131.86	27	9	21	10.4	Yes
158	1	Phenanthrene	0.78	3	2			NoC
158	1	Pyrene	0.95	3	2		81.2	NoA
158	1	Selenium	2.2	27	4	0.8	23	NoA
158	1	Silver	0.31	27	4	2.3	2.61	NoAB
158	1	Sodium	1420	4	4	320		NoE
158	1	Thallium	0.42	4	4	0.21	0.368	Yes
158	1	Total PAH	0.47836	3	2		0.0197	Yes
158	1	Uranium	30.24	27	14	4.9	13.8	Yes
158	1	Vanadium	30.6	4	4	38	0.0365	NoB
158	1	Zinc	98.92	27	27	65	1380	NoA
158	1	Alpha activity	44.7	3	3			NoC
158	1	Americium-241	0.01	3	3		1.5	NoA
158	1	Beta activity	46.6	3	3			NoC
158	1	Cesium-137	0.078	3	3	0.49	0.0267	NoB
158	1	Neptunium-237	0.089	3	3	0.1	0.0839	NoB
158	1	Plutonium-238	0.017	3	3	0.073	3.21	NoAB
158	1	Plutonium-239/240	0.029	3	3	0.025	3.15	NoA
158	1	Technetium-99	2.44	3	3	2.5	101	NoAB
158	1	Thorium-228	1	3	3	1.6		NoB
158	1	Thorium-230	1.1	3	3	1.5	4.1	NoAB
158	1	Thorium-232	0.98	3	3	1.5		NoB
158	1	Uranium-234	4	3	3	1.2	5.47	NoA
158	1	Uranium-235	0.259	3	3	0.06	0.122	Yes
158	1	Uranium-238	6.5	3	3	1.2	0.517	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
16	1	Aluminum	1800	1	1	13000	4410	NoAB
16	1	Barium	50.8	1	1	200	140	NoAB
16	1	Chromium	7	1	1	16	15.6	NoAB
16	1	Copper	7.73	1	1	19	184	NoAB
16	1	Fluoranthene	0.14	1	1		109	NoA
16	1	Iron	2790	1	1	28000	3220	NoAB
16	1	Magnesium	4330	1	1	7700		NoB
16	1	Manganese	79	1	1	1500	419	NoAB
16	1	Nickel	6.18	1	1	21	10.4	NoAB
16	1	PCB, Total	0.096	1	1		0.0648	Yes
16	1	Sodium	217	1	1	320		NoB
16	1	Total PAH	0.0272	1	1		0.0197	Yes
16	1	Vanadium	6.36	1	1	38	0.0365	NoB
16	1	Zinc	163	1	1	65	1380	NoA
16	1	Cesium-137	1.1	1	1	0.49	0.0267	Yes
16	1	Technetium-99	49.4	1	1	2.5	101	NoA
16	2	Aluminum	8140	1	1	13000	4410	NoB
16	2	Arsenic	5.6	1	1	12	0.238	NoB
16	2	Barium	48.2	1	1	200	140	NoAB
16	2	Beryllium	0.84	1	1	0.67	0.00567	Yes
16	2	Calcium	8760	1	1	200000		NoB
16	2	Chromium	20.4	1	1	16	15.6	Yes
16	2	Cobalt	9.67	1	1	14	1.37	NoB
16	2	Copper	4.97	1	1	19	184	NoAB
16	2	Iron	22800	1	1	28000	3220	NoB
16	2	Magnesium	1530	1	1	7700		NoB
16	2	Manganese	387	1	1	1500	419	NoAB
16	2	Nickel	21.6	1	1	21	10.4	Yes
16	2	Vanadium	35.5	1	1	38	0.0365	NoB
16	2	Zinc	114	1	1	65	1380	NoA
16	2	Technetium-99	2.22	1	1	2.5	101	NoAB
16	3	Aluminum	5730	1	1	13000	4410	NoB
16	3	Barium	64.1	1	1	200	140	NoAB
16	3	Chromium	7.67	1	1	16	15.6	NoAB
16	3	Cobalt	2.79	1	1	14	1.37	NoB
16	3	Copper	5.38	1	1	19	184	NoAB
16	3	Iron	8370	1	1	28000	3220	NoB
16	3	Magnesium	4040	1	1	7700		NoB
16	3	Manganese	280	1	1	1500	419	NoAB
16	3	PCB, Total	1.37	3	2		0.0648	Yes
16	3	Vanadium	15.6	1	1	38	0.0365	NoB
16	3	Technetium-99	3.73	1	1	2.5	101	NoA
16	4	Acenaphthene	0.33	1	1		117	NoA
16	4	Acenaphthylene	0.61	1	1			NoC
16	4	Aluminum	3200	1	1	13000	4410	NoAB
16	4	Anthracene	0.75	1	1		747	NoA
16	4	Arsenic	5.55	1	1	12	0.238	NoB
16	4	Barium	20.8	1	1	200	140	NoAB
16	4	Benzo(ghi)perylene	0.55	1	1			NoC
16	4	Calcium	260000	1	1	200000		NoE
16	4	Chromium	9.11	1	1	16	15.6	NoAB
16	4	Cobalt	1.7	1	1	14	1.37	NoB
16	4	Copper	7.72	1	1	19	184	NoAB
16	4	Fluoranthene	2.3	1	1		109	NoA
16	4	Iron	4210	1	1	28000	3220	NoB
16	4	Magnesium	22200	1	1	7700		NoE
16	4	Manganese	120	1	1	1500	419	NoAB
16	4	Nickel	20.1	1	1	21	10.4	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
16	4	PCB, Total	0.429	3	1		0.0648	Yes
16	4	Phenanthrene	0.85	1	1			NoC
16	4	Pyrene	2.7	1	1		81.2	NoA
16	4	Total PAH	2.928	1	1		0.0197	Yes
16	4	Vanadium	7.02	1	1	38	0.0365	NoB
16	4	Zinc	124	1	1	65	1380	NoA
16	4	Americium-241	0.654	3	3		1.5	NoA
16	4	Cesium-137	44.1	4	4	0.49	0.0267	Yes
16	4	Cobalt-60	0.00853	3	3		0.00547	Yes
16	4	Neptunium-237	7.12	3	3	0.1	0.0839	Yes
16	4	Plutonium-238	-0.0741	3	3	0.073	3.21	NoAB
16	4	Plutonium-239/240	1.43	3	3	0.025	3.15	NoA
16	4	Technetium-99	355	4	4	2.5	101	Yes
16	4	Thorium-228	0.37	3	3	1.6		NoB
16	4	Thorium-230	5.29	3	3	1.5	4.1	Yes
16	4	Thorium-232	0.295	3	3	1.5		NoB
16	4	Uranium-234	119	3	3	1.2	5.47	Yes
16	4	Uranium-235	8.23	3	3	0.06	0.122	Yes
16	4	Uranium-238	270	3	3	1.2	0.517	Yes
160	1	Aluminum	5130	1	1	13000	4410	NoB
160	1	Antimony	0.68	1	1	0.21	0.552	Yes
160	1	Arsenic	8.22	2	2	12	0.238	NoB
160	1	Barium	147	1	1	200	140	NoB
160	1	Benzo(ghi)perylene	0.042	1	1			NoC
160	1	Beryllium	0.36	1	1	0.67	0.00567	NoB
160	1	Cadmium	0.24	1	1	0.21	0.811	NoA
160	1	Calcium	140000	1	1	200000		NoB
160	1	Chromium	12.6	2	1	16	15.6	NoAB
160	1	Cobalt	3.6	1	1	14	1.37	NoB
160	1	Copper	6.1	2	1	19	184	NoAB
160	1	Fluoranthene	0.054	1	1		109	NoA
160	1	Iron	11672.43	2	2	28000	3220	NoB
160	1	Lead	13.95	2	2	36	400	NoAB
160	1	Magnesium	6220	1	1	7700		NoB
160	1	Manganese	332.71	2	2	1500	419	NoAB
160	1	Molybdenum	0.77	2	1		23	NoA
160	1	Nickel	7.7	2	1	21	10.4	NoAB
160	1	Pyrene	0.052	1	1		81.2	NoA
160	1	Selenium	0.8	2	1	0.8	23	NoA
160	1	Silver	0.042	2	1	2.3	2.61	NoAB
160	1	Sodium	73.5	1	1	320		NoB
160	1	Thallium	0.3	1	1	0.21	0.368	NoA
160	1	Total PAH	0.052907	1	1		0.0197	Yes
160	1	Uranium	2.32	3	2	4.9	13.8	NoAB
160	1	Vanadium	15.9	1	1	38	0.0365	NoB
160	1	Zinc	43.75	2	2	65	1380	NoAB
160	1	Alpha activity	24.5	2	2			NoC
160	1	Americium-241	0.002	2	2		1.5	NoA
160	1	Beta activity	28.2	2	2			NoC
160	1	Cesium-137	0.016	2	2	0.49	0.0267	NoAB
160	1	Neptunium-237	0.0017	2	2	0.1	0.0839	NoAB
160	1	Plutonium-238	0.023	2	2	0.073	3.21	NoAB
160	1	Plutonium-239/240	0.01	2	2	0.025	3.15	NoAB
160	1	Technetium-99	17	3	3	2.5	101	NoA
160	1	Thorium-228	0.66	2	2	1.6		NoB
160	1	Thorium-230	0.93	2	2	1.5	4.1	NoAB
160	1	Thorium-232	0.79	2	2	1.5		NoB
160	1	Uranium-234	0.75	2	2	1.2	5.47	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
160	1	Uranium-235	0.032	2	2	0.06	0.122	NoAB
160	1	Uranium-238	0.78	2	2	1.2	0.517	NoB
163	1	Aluminum	8660	2	2	13000	4410	NoB
163	1	Anthracene	0.116	2	1		747	NoA
163	1	Antimony	0.34	2	1	0.21	0.552	NoA
163	1	Arsenic	9.48	4	2	12	0.238	NoB
163	1	Barium	114	2	2	200	140	NoAB
163	1	Benzo(ghi)perylene	0.166	2	1			NoC
163	1	Beryllium	0.46	2	1	0.67	0.00567	NoB
163	1	Bis(2-ethylhexyl)phthalate	0.17	2	1			NoC
163	1	Cadmium	0.1	2	1	0.21	0.811	NoAB
163	1	Calcium	15600	1	1	200000		NoB
163	1	Chromium	49.44	4	3	16	15.6	Yes
163	1	Cobalt	7.3	2	2	14	1.37	NoB
163	1	Copper	13.6	4	2	19	184	NoAB
163	1	Diethyl phthalate	0.4	2	1			NoC
163	1	Fluoranthene	0.31	2	2		109	NoA
163	1	Iron	17420.41	4	4	28000	3220	NoB
163	1	Lead	19.48	4	3	36	400	NoAB
163	1	Magnesium	17000	2	2	7700		NoE
163	1	Manganese	353	4	4	1500	419	NoAB
163	1	Mercury	0.0286	4	1	0.2	0.213	NoAB
163	1	Molybdenum	0.79	3	1		23	NoA
163	1	Nickel	14.2	4	1	21	10.4	NoB
163	1	Pyrene	0.295	2	1		81.2	NoA
163	1	Selenium	1.3	4	1	0.8	23	NoA
163	1	Silver	0.031	4	1	2.3	2.61	NoAB
163	1	Sodium	34.9	2	1	320		NoB
163	1	Thallium	0.12	2	1	0.21	0.368	NoAB
163	1	Total PAH	0.28507	2	2		0.0197	Yes
163	1	Uranium	2.71	4	2	4.9	13.8	NoAB
163	1	Vanadium	27	2	2	38	0.0365	NoB
163	1	Zinc	60.65	4	4	65	1380	NoAB
163	1	Alpha activity	32	2	2			NoC
163	1	Americium-241	0.0012	2	2		1.5	NoA
163	1	Beta activity	22.8	2	2			NoC
163	1	Cesium-137	0.089	2	2	0.49	0.0267	NoB
163	1	Neptunium-237	0.006	2	2	0.1	0.0839	NoAB
163	1	Plutonium-238	0.0037	2	2	0.073	3.21	NoAB
163	1	Plutonium-239/240	0.011	2	2	0.025	3.15	NoAB
163	1	Technetium-99	0.41	3	3	2.5	101	NoAB
163	1	Thorium-228	0.93	2	2	1.6		NoB
163	1	Thorium-230	0.96	2	2	1.5	4.1	NoAB
163	1	Thorium-232	0.88	2	2	1.5		NoB
163	1	Uranium-234	0.82	2	2	1.2	5.47	NoAB
163	1	Uranium-235	0.061	2	2	0.06	0.122	NoA
163	1	Uranium-238	0.9	2	2	1.2	0.517	NoB
165	1	2-Methylnaphthalene	0.37	2	1			NoC
165	1	Acenaphthene	0.37	6	1		117	NoA
165	1	Acenaphthylene	0.36	6	1			NoC
165	1	Acetone	0.11	6	1			NoC
165	1	Aluminum	7460	4	4	13000	4410	NoB
165	1	Anthracene	0.63	6	3		747	NoA
165	1	Antimony	2.2	4	1	0.21	0.552	Yes
165	1	Arsenic	130.36	16	15	12	0.238	Yes
165	1	Barium	1140	15	15	200	140	Yes
165	1	Benzo(ghi)perylene	0.93	6	3			NoC

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
165	1	Beryllium	1.08	4	4	0.67	0.00567	Yes
165	1	Butyl benzyl phthalate	0.36	2	1			NoC
165	1	Cadmium	0.22	16	2	0.21	0.811	NoA
165	1	Calcium	83000	3	3	200000		NoB
165	1	Carbazole	0.37	2	1		8.72	NoA
165	1	Chromium	66.62	16	16	16	15.6	Yes
165	1	Cobalt	5.6	3	3	14	1.37	NoB
165	1	Copper	66	4	4	19	184	NoA
165	1	Dibenzofuran	0.37	2	1			NoC
165	1	Di-n-butyl phthalate	0.37	2	2			NoC
165	1	Fluoranthene	4	6	4		109	NoA
165	1	Iron	13400	4	4	28000	3220	NoB
165	1	Lead	51.53	16	11	36	400	NoA
165	1	Magnesium	4410	3	3	7700		NoB
165	1	Manganese	434	4	4	1500	419	NoB
165	1	Mercury	0.9	15	5	0.2	0.213	Yes
165	1	Methylene chloride	0.006	6	2			NoC
165	1	Naphthalene	4.7	6	3		1.15	Yes
165	1	Nickel	39.2	16	16	21	10.4	Yes
165	1	PCB, Total	51	196	34		0.0648	Yes
165	1	Phenanthrene	3.8	6	4			NoC
165	1	Pyrene	2.9	6	4		81.2	NoA
165	1	Selenium	12.5	16	14	0.8	23	NoA
165	1	Silver	83.3	16	7	2.3	2.61	Yes
165	1	Sodium	333	3	3	320		NoE
165	1	Thallium	0.11	12	2	0.21	0.368	NoAB
165	1	Toluene	0.21	6	2			NoC
165	1	Total PAH	1.8683	20	4		0.0197	Yes
165	1	Uranium	268	10	10	4.9	13.8	Yes
165	1	Vanadium	24.7	4	4	38	0.0365	NoB
165	1	Zinc	122	3	3	65	1380	NoA
165	1	Alpha activity	106	1	1			NoC
165	1	Americium-241	0.491	3	3		1.5	NoA
165	1	Beta activity	175	1	1			NoC
165	1	Cesium-137	8.65	3	3	0.49	0.0267	Yes
165	1	Cobalt-60	-0.0142	1	1		0.00547	NoA
165	1	Neptunium-237	0.56	6	6	0.1	0.0839	Yes
165	1	Plutonium-238	0.128	3	3	0.073	3.21	NoA
165	1	Plutonium-239	0.39	2	2	0.025	3.15	NoA
165	1	Plutonium-239/240	7.78	3	3	0.025	3.15	Yes
165	1	Technetium-99	60	6	6	2.5	101	NoA
165	1	Thorium-228	1.3	3	3	1.6		NoB
165	1	Thorium-230	11.4	6	6	1.5	4.1	Yes
165	1	Thorium-232	1.21	3	3	1.5		NoB
165	1	Uranium-234	140	7	7	1.2	5.47	Yes
165	1	Uranium-235	4.7	7	7	0.06	0.122	Yes
165	1	Uranium-238	150	7	7	1.2	0.517	Yes
169	1	Aluminum	14200	5	5	13000	4410	Yes
169	1	Anthracene	0.066	1	1		747	NoA
169	1	Antimony	1.3	5	2	0.21	0.552	Yes
169	1	Arsenic	20.3	17	12	12	0.238	Yes
169	1	Barium	148	5	5	200	140	NoB
169	1	Benzenemethanol	0.059	1	1			NoC
169	1	Benzo(ghi)perylene	2.8	1	1			NoC
169	1	Beryllium	0.8	5	5	0.67	0.00567	Yes
169	1	Bis(2-ethylhexyl)phthalate	0.27	1	1			NoC
169	1	Cadmium	0.61	5	3	0.21	0.811	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
169	1	Calcium	179000	5	5	200000		NoB
169	1	Chromium	214.93	17	13	16	15.6	Yes
169	1	Cobalt	6.3	5	3	14	1.37	NoB
169	1	Copper	374.35	17	15	19	184	Yes
169	1	Fluoranthene	2	1	1		109	NoA
169	1	Iron	41561.81	17	17	28000	3220	Yes
169	1	Lead	153.61	17	17	36	400	NoA
169	1	Magnesium	6200	5	5	7700		NoB
169	1	Manganese	608	17	16	1500	419	NoB
169	1	Mercury	7.87	17	3	0.2	0.213	Yes
169	1	Molybdenum	6.27	14	3		23	NoA
169	1	Nickel	548.66	17	11	21	10.4	Yes
169	1	PCB, Total	10	8	5		0.0648	Yes
169	1	Phenanthrene	0.36	1	1			NoC
169	1	Pyrene	1.8	1	1		81.2	NoA
169	1	Selenium	1.5	17	5	0.8	23	NoA
169	1	Silver	0.079	17	2	2.3	2.61	NoAB
169	1	Sodium	418	5	5	320		NoE
169	1	Thallium	0.46	5	3	0.21	0.368	Yes
169	1	Total PAH	4.5859	1	1		0.0197	Yes
169	1	Uranium	50.31	15	12	4.9	13.8	Yes
169	1	Vanadium	37.4	5	5	38	0.0365	NoB
169	1	Zinc	473.08	17	17	65	1380	NoA
169	1	Alpha activity	26.6	2	2			NoC
169	1	Americium-241	0.013	2	2		1.5	NoA
169	1	Beta activity	37	2	2			NoC
169	1	Cesium-137	0.215	2	2	0.49	0.0267	NoB
169	1	Neptunium-237	0.032	2	2	0.1	0.0839	NoAB
169	1	Plutonium-238	0.027	2	2	0.073	3.21	NoAB
169	1	Plutonium-239/240	0.053	2	2	0.025	3.15	NoA
169	1	Technetium-99	4.69	2	2	2.5	101	NoA
169	1	Thorium-228	1.05	2	2	1.6		NoB
169	1	Thorium-230	1.27	2	2	1.5	4.1	NoAB
169	1	Thorium-232	0.95	2	2	1.5		NoB
169	1	Uranium-234	6.55	2	2	1.2	5.47	Yes
169	1	Uranium-235	0.46	2	2	0.06	0.122	Yes
169	1	Uranium-238	8.12	2	2	1.2	0.517	Yes
170	1	Uranium	4.57	1	1	4.9	13.8	NoAB
170	1	Alpha activity	27.9	1	1			NoC
170	1	Americium-241	0.015	1	1		1.5	NoA
170	1	Beta activity	31.5	1	1			NoC
170	1	Cesium-137	0.335	1	1	0.49	0.0267	NoB
170	1	Neptunium-237	0.115	1	1	0.1	0.0839	Yes
170	1	Plutonium-238	0.01	1	1	0.073	3.21	NoAB
170	1	Plutonium-239/240	0.027	1	1	0.025	3.15	NoA
170	1	Technetium-99	0.91	1	1	2.5	101	NoAB
170	1	Thorium-228	0.81	1	1	1.6		NoB
170	1	Thorium-230	0.93	1	1	1.5	4.1	NoAB
170	1	Thorium-232	0.77	1	1	1.5		NoB
170	1	Uranium-234	1.05	1	1	1.2	5.47	NoAB
170	1	Uranium-235	0.067	1	1	0.06	0.122	NoA
170	1	Uranium-238	1.53	1	1	1.2	0.517	Yes
176	1	Aluminum	8060	1	1	13000	4410	NoB
176	1	Antimony	0.26	1	1	0.21	0.552	NoA
176	1	Arsenic	48.55	9	3	12	0.238	Yes
176	1	Barium	84	1	1	200	140	NoAB
176	1	Beryllium	0.48	1	1	0.67	0.00567	NoB
176	1	Cadmium	0.029	1	1	0.21	0.811	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
176	1	Calcium	3020	1	1	200000		NoB
176	1	Chromium	42.74	9	2	16	15.6	Yes
176	1	Cobalt	2.9	1	1	14	1.37	NoB
176	1	Copper	7.5	9	1	19	184	NoAB
176	1	Iron	13738.32	9	9	28000	3220	NoB
176	1	Lead	445.48	9	8	36	400	Yes
176	1	Magnesium	1480	1	1	7700		NoB
176	1	Manganese	301.32	9	9	1500	419	NoAB
176	1	Mercury	0.023	9	1	0.2	0.213	NoAB
176	1	Molybdenum	0.37	9	1		23	NoA
176	1	Nickel	107.14	9	4	21	10.4	Yes
176	1	Selenium	1	9	1	0.8	23	NoA
176	1	Silver	0.043	9	1	2.3	2.61	NoAB
176	1	Sodium	151	1	1	320		NoB
176	1	Thallium	0.086	1	1	0.21	0.368	NoAB
176	1	Uranium	22.09	10	3	4.9	13.8	Yes
176	1	Vanadium	28.1	1	1	38	0.0365	NoB
176	1	Zinc	66.84	9	9	65	1380	NoA
180	1	Aluminum	10300	1	1	13000	4410	NoB
180	1	Antimony	0.58	1	1	0.21	0.552	Yes
180	1	Arsenic	137.97	12	8	12	0.238	Yes
180	1	Barium	109	1	1	200	140	NoAB
180	1	Beryllium	0.54	1	1	0.67	0.00567	NoB
180	1	Cadmium	0.071	1	1	0.21	0.811	NoAB
180	1	Calcium	3110	1	1	200000		NoB
180	1	Chromium	55.44	12	6	16	15.6	Yes
180	1	Cobalt	8	1	1	14	1.37	NoB
180	1	Copper	94.19	12	6	19	184	NoA
180	1	Iron	19775.19	12	12	28000	3220	NoB
180	1	Lead	1992.17	12	12	36	400	Yes
180	1	Magnesium	1810	1	1	7700		NoB
180	1	Manganese	603.24	12	12	1500	419	NoB
180	1	Mercury	8.28	12	2	0.2	0.213	Yes
180	1	Molybdenum	0.67	12	1		23	NoA
180	1	Nickel	90.33	12	3	21	10.4	Yes
180	1	Selenium	1.4	12	1	0.8	23	NoA
180	1	Silver	0.033	12	1	2.3	2.61	NoAB
180	1	Sodium	55.7	1	1	320		NoB
180	1	Thallium	0.16	1	1	0.21	0.368	NoAB
180	1	Total PAH	0.0056	1	1		0.0197	NoA
180	1	Uranium	2.6	13	2	4.9	13.8	NoAB
180	1	Vanadium	31.2	1	1	38	0.0365	NoB
180	1	Zinc	61.25	12	12	65	1380	NoAB
180	1	Alpha activity	25	2	2			NoC
180	1	Americium-241	0.0029	2	2		1.5	NoA
180	1	Beta activity	26.1	2	2			NoC
180	1	Cesium-137	0.163	2	2	0.49	0.0267	NoB
180	1	Neptunium-237	0	2	2	0.1	0.0839	NoAB
180	1	Plutonium-238	0.017	2	2	0.073	3.21	NoAB
180	1	Plutonium-239/240	0.0073	2	2	0.025	3.15	NoAB
180	1	Technetium-99	0.28	2	2	2.5	101	NoAB
180	1	Thorium-228	0.91	2	2	1.6		NoB
180	1	Thorium-230	0.94	2	2	1.5	4.1	NoAB
180	1	Thorium-232	0.91	2	2	1.5		NoB
180	1	Uranium-234	0.85	2	2	1.2	5.47	NoAB
180	1	Uranium-235	0.054	2	2	0.06	0.122	NoAB
180	1	Uranium-238	0.87	2	2	1.2	0.517	NoB
180	2	Aluminum	8700	2	2	13000	4410	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
180	2	Antimony	0.59	2	2	0.21	0.552	Yes
180	2	Arsenic	18.65	12	5	12	0.238	Yes
180	2	Barium	110	2	2	200	140	NoAB
180	2	Beryllium	0.53	2	2	0.67	0.00567	NoB
180	2	Cadmium	0.18	2	2	0.21	0.811	NoAB
180	2	Calcium	2280	2	2	200000		NoB
180	2	Chromium	44.63	12	6	16	15.6	Yes
180	2	Cobalt	8.6	2	2	14	1.37	NoB
180	2	Copper	18.92	12	3	19	184	NoAB
180	2	Fluoranthene	0.054	1	1		109	NoA
180	2	Iron	15300	12	12	28000	3220	NoB
180	2	Lead	125.12	12	12	36	400	NoA
180	2	Magnesium	1400	2	2	7700		NoB
180	2	Manganese	749	12	11	1500	419	NoB
180	2	Mercury	0.0354	12	2	0.2	0.213	NoAB
180	2	Molybdenum	0.47	12	2		23	NoA
180	2	Nickel	84.16	12	4	21	10.4	Yes
180	2	Pyrene	0.056	1	1		81.2	NoA
180	2	Selenium	1.3	12	2	0.8	23	NoA
180	2	Silver	0.035	12	2	2.3	2.61	NoAB
180	2	Sodium	228	2	2	320		NoB
180	2	Thallium	0.16	2	2	0.21	0.368	NoAB
180	2	Total PAH	0.091854	1	1		0.0197	Yes
180	2	Uranium	2.13	12	2	4.9	13.8	NoAB
180	2	Vanadium	25.6	2	2	38	0.0365	NoB
180	2	Zinc	68.63	12	12	65	1380	NoA
180	2	Alpha activity	27.7	1	1			NoC
180	2	Americium-241	0.0002	1	1		1.5	NoA
180	2	Beta activity	31.1	1	1			NoC
180	2	Cesium-137	0.119	1	1	0.49	0.0267	NoB
180	2	Neptunium-237	0.008	1	1	0.1	0.0839	NoAB
180	2	Plutonium-238	0.0014	1	1	0.073	3.21	NoAB
180	2	Plutonium-239/240	0.005	1	1	0.025	3.15	NoAB
180	2	Technetium-99	0.22	1	1	2.5	101	NoAB
180	2	Thorium-228	0.92	1	1	1.6		NoB
180	2	Thorium-230	0.98	1	1	1.5	4.1	NoAB
180	2	Thorium-232	0.8	1	1	1.5		NoB
180	2	Uranium-234	0.703	1	1	1.2	5.47	NoAB
180	2	Uranium-235	0.05	1	1	0.06	0.122	NoAB
180	2	Uranium-238	0.709	1	1	1.2	0.517	NoB
180	3	Aluminum	8190	1	1	13000	4410	NoB
180	3	Antimony	0.33	1	1	0.21	0.552	NoA
180	3	Arsenic	30.3	17	9	12	0.238	Yes
180	3	Barium	131	1	1	200	140	NoAB
180	3	Beryllium	0.48	1	1	0.67	0.00567	NoB
180	3	Cadmium	0.042	1	1	0.21	0.811	NoAB
180	3	Calcium	2510	1	1	200000		NoB
180	3	Chromium	46.94	17	4	16	15.6	Yes
180	3	Cobalt	5.9	1	1	14	1.37	NoB
180	3	Copper	18.75	17	2	19	184	NoAB
180	3	Iron	13582.67	17	17	28000	3220	NoB
180	3	Lead	193.29	17	17	36	400	NoA
180	3	Magnesium	1300	1	1	7700		NoB
180	3	Manganese	1002.39	17	17	1500	419	NoB
180	3	Mercury	0.0288	17	1	0.2	0.213	NoAB
180	3	Molybdenum	0.49	17	1		23	NoA
180	3	Nickel	68.91	17	4	21	10.4	Yes
180	3	Selenium	1.2	17	1	0.8	23	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
180	3	Silver	11.4	17	3	2.3	2.61	Yes
180	3	Sodium	91.2	1	1	320		NoB
180	3	Thallium	0.11	1	1	0.21	0.368	NoAB
180	3	Total PAH	0.0108	1	1		0.0197	NoA
180	3	Uranium	1.54	17	1	4.9	13.8	NoAB
180	3	Vanadium	24.8	1	1	38	0.0365	NoB
180	3	Zinc	64.69	17	17	65	1380	NoAB
180	3	Alpha activity	14.7	1	1			NoC
180	3	Americium-241	0.0021	1	1		1.5	NoA
180	3	Beta activity	20.6	1	1			NoC
180	3	Cesium-137	0.034	1	1	0.49	0.0267	NoB
180	3	Neptunium-237	-0.0032	1	1	0.1	0.0839	NoAB
180	3	Plutonium-238	0.0094	1	1	0.073	3.21	NoAB
180	3	Plutonium-239/240	0.0051	1	1	0.025	3.15	NoAB
180	3	Technetium-99	0.14	1	1	2.5	101	NoAB
180	3	Thorium-228	0.504	1	1	1.6		NoB
180	3	Thorium-230	0.706	1	1	1.5	4.1	NoAB
180	3	Thorium-232	0.422	1	1	1.5		NoB
180	3	Uranium-234	0.444	1	1	1.2	5.47	NoAB
180	3	Uranium-235	0.03	1	1	0.06	0.122	NoAB
180	3	Uranium-238	0.512	1	1	1.2	0.517	NoAB
180	4	Aluminum	6280	1	1	13000	4410	NoB
180	4	Antimony	0.29	1	1	0.21	0.552	NoA
180	4	Arsenic	19.2	15	6	12	0.238	Yes
180	4	Barium	213	1	1	200	140	Yes
180	4	Beryllium	1.6	1	1	0.67	0.00567	Yes
180	4	Cadmium	0.059	1	1	0.21	0.811	NoAB
180	4	Calcium	1210	1	1	200000		NoB
180	4	Chromium	60.01	15	7	16	15.6	Yes
180	4	Cobalt	13.2	1	1	14	1.37	NoB
180	4	Copper	11.2	15	1	19	184	NoAB
180	4	Iron	35300	15	15	28000	3220	Yes
180	4	Lead	19.94	15	15	36	400	NoAB
180	4	Magnesium	670	1	1	7700		NoB
180	4	Manganese	1990	15	15	1500	419	Yes
180	4	Mercury	0.0197	15	1	0.2	0.213	NoAB
180	4	Molybdenum	1.4	15	1		23	NoA
180	4	Nickel	64.61	15	4	21	10.4	Yes
180	4	Selenium	1.8	15	1	0.8	23	NoA
180	4	Silver	9.68	15	2	2.3	2.61	Yes
180	4	Sodium	29	1	1	320		NoB
180	4	Thallium	0.21	1	1	0.21	0.368	NoA
180	4	Total PAH	0.0215	1	1		0.0197	Yes
180	4	Uranium	1.55	15	1	4.9	13.8	NoAB
180	4	Vanadium	48.5	1	1	38	0.0365	Yes
180	4	Zinc	47.8	15	15	65	1380	NoAB
180	4	Alpha activity	17.9	1	1			NoC
180	4	Americium-241	0.01	1	1		1.5	NoA
180	4	Beta activity	22.2	1	1			NoC
180	4	Cesium-137	0.055	1	1	0.49	0.0267	NoB
180	4	Neptunium-237	-0.001	1	1	0.1	0.0839	NoAB
180	4	Plutonium-238	0.007	1	1	0.073	3.21	NoAB
180	4	Plutonium-239/240	0.0071	1	1	0.025	3.15	NoAB
180	4	Technetium-99	0.09	1	1	2.5	101	NoAB
180	4	Thorium-228	0.764	1	1	1.6		NoB
180	4	Thorium-230	0.69	1	1	1.5	4.1	NoAB
180	4	Thorium-232	0.727	1	1	1.5		NoB
180	4	Uranium-234	0.47	1	1	1.2	5.47	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
180	4	Uranium-235	0.031	1	1	0.06	0.122	NoAB
180	4	Uranium-238	0.517	1	1	1.2	0.517	NoB
181	1	Aluminum	9470	16	16	13000	4410	NoB
181	1	Anthracene	0.0057	5	2		747	NoA
181	1	Antimony	0.28	16	5	0.21	0.552	NoA
181	1	Arsenic	6.9	16	12	12	0.238	NoB
181	1	Barium	141	16	16	200	140	NoB
181	1	Benzo(ghi)perylene	0.02	5	5			NoC
181	1	Beryllium	0.48	16	5	0.67	0.00567	NoB
181	1	Cadmium	0.695	16	9	0.21	0.811	NoA
181	1	Calcium	182000	16	16	200000		NoB
181	1	Chromium	31.2	16	16	16	15.6	Yes
181	1	Cobalt	8.4	16	16	14	1.37	NoB
181	1	Copper	44.7	16	16	19	184	NoA
181	1	Fluoranthene	0.046	5	5		109	NoA
181	1	Iron	24600	16	16	28000	3220	NoB
181	1	Lead	35	16	16	36	400	NoAB
181	1	Magnesium	4060	16	16	7700		NoB
181	1	Manganese	512	16	16	1500	419	NoB
181	1	Mercury	0.13	16	16	0.2	0.213	NoAB
181	1	Naphthalene	0.0053	5	5		1.15	NoA
181	1	Nickel	10.3	16	16	21	10.4	NoAB
181	1	Phenanthrene	0.033	5	5			NoC
181	1	Pyrene	0.06	5	5		81.2	NoA
181	1	Silver	0.16	16	5	2.3	2.61	NoAB
181	1	Sodium	254	16	5	320		NoB
181	1	Thallium	3.5	16	1	0.21	0.368	Yes
181	1	Total PAH	0.039144	6	6		0.0197	Yes
181	1	Uranium	2.37	12	1	4.9	13.8	NoAB
181	1	Vanadium	25	16	16	38	0.0365	NoB
181	1	Zinc	85.5	16	16	65	1380	NoA
181	1	Alpha activity	22.3	1	1			NoC
181	1	Americium-241	-0.000675	9	9		1.5	NoA
181	1	Beta activity	22.5	1	1			NoC
181	1	Cesium-137	0.0953	12	12	0.49	0.0267	NoB
181	1	Neptunium-237	0.0113	11	11	0.1	0.0839	NoAB
181	1	Plutonium-238	0.019	12	12	0.073	3.21	NoAB
181	1	Plutonium-239/240	0.00303	9	9	0.025	3.15	NoAB
181	1	Technetium-99	1.18	12	12	2.5	101	NoAB
181	1	Thorium-228	0.84	12	12	1.6		NoB
181	1	Thorium-230	0.8	12	12	1.5	4.1	NoAB
181	1	Thorium-232	0.71	12	12	1.5		NoB
181	1	Uranium-234	0.74	12	12	1.2	5.47	NoAB
181	1	Uranium-235	0.022	12	12	0.06	0.122	NoAB
181	1	Uranium-238	0.79	12	12	1.2	0.517	NoB
19	1	Aluminum	8490	4	4	13000	4410	NoB
19	1	Anthracene	1.4	4	1		747	NoA
19	1	Arsenic	6.4	4	4	12	0.238	NoB
19	1	Barium	87.6	4	4	200	140	NoAB
19	1	Benzo(ghi)perylene	2.1	4	4			NoC
19	1	Beryllium	1.1	4	4	0.67	0.00567	Yes
19	1	Cadmium	1.2	4	1	0.21	0.811	Yes
19	1	Calcium	267000	4	4	200000		NoE
19	1	Chromium	15.6	4	3	16	15.6	NoB
19	1	Copper	50.9	4	4	19	184	NoA
19	1	Fluoranthene	9.1	4	4		109	NoA
19	1	Iron	12000	4	4	28000	3220	NoB
19	1	Lead	50.8	4	4	36	400	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
19	1	Magnesium	15900	4	4	7700		NoE
19	1	Manganese	723	4	4	1500	419	NoB
19	1	Mercury	0.101	4	3	0.2	0.213	NoAB
19	1	Naphthalene	1.1	4	1		1.15	NoA
19	1	Nickel	14.9	4	2	21	10.4	NoB
19	1	Phenanthrene	8.1	4	4			NoC
19	1	Pyrene	8.6	4	4		81.2	NoA
19	1	Selenium	0.42	4	1	0.8	23	NoAB
19	1	Sodium	432	4	4	320		NoE
19	1	Thallium	0.98	4	3	0.21	0.368	Yes
19	1	Total PAH	5.2264	4	4		0.0197	Yes
19	1	Vanadium	22.5	4	4	38	0.0365	NoB
19	1	Zinc	203	4	4	65	1380	NoA
194	1	Aluminum	7800	1	1	13000	4410	NoB
194	1	Antimony	1.5	1	1	0.21	0.552	Yes
194	1	Arsenic	8	19	5	12	0.238	NoB
194	1	Barium	97.1	1	1	200	140	NoAB
194	1	Beryllium	0.5	1	1	0.67	0.00567	NoB
194	1	Cadmium	0.067	1	1	0.21	0.811	NoAB
194	1	Calcium	902	1	1	200000		NoB
194	1	Chromium	38.71	19	5	16	15.6	Yes
194	1	Cobalt	7.6	1	1	14	1.37	NoB
194	1	Copper	21.24	19	3	19	184	NoA
194	1	Iron	13900	19	19	28000	3220	NoB
194	1	Lead	47.39	19	19	36	400	NoA
194	1	Magnesium	894	1	1	7700		NoB
194	1	Manganese	1030	19	19	1500	419	NoB
194	1	Mercury	6.71	19	2	0.2	0.213	Yes
194	1	Molybdenum	0.71	19	1		23	NoA
194	1	Nickel	58.42	19	2	21	10.4	Yes
194	1	Selenium	1.1	19	1	0.8	23	NoA
194	1	Silver	10.93	19	3	2.3	2.61	Yes
194	1	Sodium	28.2	1	1	320		NoB
194	1	Uranium	3.41	19	1	4.9	13.8	NoAB
194	1	Vanadium	29.3	1	1	38	0.0365	NoB
194	1	Zinc	33.58	19	19	65	1380	NoAB
194	1	Alpha activity	37.4	1	1			NoC
194	1	Americium-241	0.0069	1	1		1.5	NoA
194	1	Beta activity	36.6	1	1			NoC
194	1	Cesium-137	0.19	1	1	0.49	0.0267	NoB
194	1	Neptunium-237	0.05	1	1	0.1	0.0839	NoAB
194	1	Plutonium-238	0.017	1	1	0.073	3.21	NoAB
194	1	Plutonium-239/240	0.011	1	1	0.025	3.15	NoAB
194	1	Technetium-99	0.12	1	1	2.5	101	NoAB
194	1	Thorium-228	1.01	1	1	1.6		NoB
194	1	Thorium-230	0.99	1	1	1.5	4.1	NoAB
194	1	Thorium-232	0.94	1	1	1.5		NoB
194	1	Uranium-234	0.91	1	1	1.2	5.47	NoAB
194	1	Uranium-235	0.041	1	1	0.06	0.122	NoAB
194	1	Uranium-238	1.14	1	1	1.2	0.517	NoB
194	10	Aluminum	4880	1	1	13000	4410	NoB
194	10	Antimony	0.3	1	1	0.21	0.552	NoA
194	10	Arsenic	14.08	8	3	12	0.238	Yes
194	10	Barium	55.9	1	1	200	140	NoAB
194	10	Benzo(ghi)perylene	0.097	1	1			NoC
194	10	Beryllium	0.36	1	1	0.67	0.00567	NoB
194	10	Cadmium	0.29	1	1	0.21	0.811	NoA
194	10	Calcium	56000	1	1	200000		NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	10	Chromium	36.29	8	2	16	15.6	Yes
194	10	Cobalt	5	1	1	14	1.37	NoB
194	10	Copper	8.3	8	1	19	184	NoAB
194	10	Fluoranthene	0.25	1	1		109	NoA
194	10	Iron	14297.32	8	8	28000	3220	NoB
194	10	Lead	98.86	8	8	36	400	NoA
194	10	Magnesium	3010	1	1	7700		NoB
194	10	Manganese	273	8	8	1500	419	NoAB
194	10	Mercury	0.0385	8	1	0.2	0.213	NoAB
194	10	Molybdenum	0.78	8	1		23	NoA
194	10	Nickel	75.99	8	3	21	10.4	Yes
194	10	Phenanthrene	0.082	1	1			NoC
194	10	Pyrene	0.18	1	1		81.2	NoA
194	10	Selenium	0.93	8	1	0.8	23	NoA
194	10	Silver	0.054	8	1	2.3	2.61	NoAB
194	10	Sodium	180	1	1	320		NoB
194	10	Thallium	0.098	1	1	0.21	0.368	NoAB
194	10	Total PAH	0.25715	1	1		0.0197	Yes
194	10	Uranium	7.21	8	2	4.9	13.8	NoA
194	10	Vanadium	18.5	1	1	38	0.0365	NoB
194	10	Zinc	315.61	8	8	65	1380	NoA
194	10	Alpha activity	28.9	1	1			NoC
194	10	Americium-241	0.01	1	1		1.5	NoA
194	10	Beta activity	28.6	1	1			NoC
194	10	Cesium-137	0.581	1	1	0.49	0.0267	Yes
194	10	Neptunium-237	-0.0033	1	1	0.1	0.0839	NoAB
194	10	Plutonium-238	0.0089	1	1	0.073	3.21	NoAB
194	10	Plutonium-239/240	0.048	1	1	0.025	3.15	NoA
194	10	Technetium-99	0.31	1	1	2.5	101	NoAB
194	10	Thorium-228	0.778	1	1	1.6		NoB
194	10	Thorium-230	1	1	1	1.5	4.1	NoAB
194	10	Thorium-232	0.724	1	1	1.5		NoB
194	10	Uranium-234	1	1	1	1.2	5.47	NoAB
194	10	Uranium-235	0.054	1	1	0.06	0.122	NoAB
194	10	Uranium-238	1.49	1	1	1.2	0.517	Yes
194	11	Aluminum	4340	1	1	13000	4410	NoAB
194	11	Antimony	0.16	1	1	0.21	0.552	NoAB
194	11	Arsenic	9.45	12	2	12	0.238	NoB
194	11	Barium	90.8	1	1	200	140	NoAB
194	11	Beryllium	0.23	1	1	0.67	0.00567	NoB
194	11	Cadmium	0.5	1	1	0.21	0.811	NoA
194	11	Calcium	262000	1	1	200000		NoE
194	11	Chromium	32.68	12	3	16	15.6	Yes
194	11	Cobalt	3	1	1	14	1.37	NoB
194	11	Copper	26.6	12	2	19	184	NoA
194	11	Fluoranthene	0.14	1	1		109	NoA
194	11	Iron	13873.81	12	12	28000	3220	NoB
194	11	Lead	26.26	12	10	36	400	NoAB
194	11	Magnesium	12800	1	1	7700		NoE
194	11	Manganese	317.37	12	10	1500	419	NoAB
194	11	Mercury	8.09	12	2	0.2	0.213	Yes
194	11	Molybdenum	0.74	12	1		23	NoA
194	11	Nickel	100.68	12	7	21	10.4	Yes
194	11	PCB, Total	0.084	12	1		0.0648	Yes
194	11	Phenanthrene	0.067	1	1			NoC
194	11	Pyrene	0.096	1	1		81.2	NoA
194	11	Selenium	0.73	12	1	0.8	23	NoAB
194	11	Silver	13.29	12	3	2.3	2.61	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	11	Sodium	176	1	1	320		NoB
194	11	Total PAH	0.079526	1	1		0.0197	Yes
194	11	Uranium	2.98	12	1	4.9	13.8	NoAB
194	11	Vanadium	12.1	1	1	38	0.0365	NoB
194	11	Zinc	368.09	12	12	65	1380	NoA
194	11	Alpha activity	17.4	1	1			NoC
194	11	Americium-241	0.0007	1	1		1.5	NoA
194	11	Beta activity	23.7	1	1			NoC
194	11	Cesium-137	0.003	1	1	0.49	0.0267	NoAB
194	11	Neptunium-237	-0.0056	1	1	0.1	0.0839	NoAB
194	11	Plutonium-238	0.0174	1	1	0.073	3.21	NoAB
194	11	Plutonium-239/240	0.0061	1	1	0.025	3.15	NoAB
194	11	Technetium-99	0.04	1	1	2.5	101	NoAB
194	11	Thorium-228	0.365	1	1	1.6		NoB
194	11	Thorium-230	0.68	1	1	1.5	4.1	NoAB
194	11	Thorium-232	0.319	1	1	1.5		NoB
194	11	Uranium-234	0.89	1	1	1.2	5.47	NoAB
194	11	Uranium-235	0.02	1	1	0.06	0.122	NoAB
194	11	Uranium-238	1	1	1	1.2	0.517	NoB
194	12	Acenaphthene	0.11	1	1		117	NoA
194	12	Aluminum	5760	1	1	13000	4410	NoB
194	12	Anthracene	0.23	1	1		747	NoA
194	12	Antimony	0.39	1	1	0.21	0.552	NoA
194	12	Arsenic	7.9	8	3	12	0.238	NoB
194	12	Barium	98	1	1	200	140	NoAB
194	12	Benzo(ghi)perylene	0.62	1	1			NoC
194	12	Beryllium	0.52	1	1	0.67	0.00567	NoB
194	12	Cadmium	0.14	1	1	0.21	0.811	NoAB
194	12	Calcium	47900	1	1	200000		NoB
194	12	Chromium	63.36	8	4	16	15.6	Yes
194	12	Cobalt	6.2	1	1	14	1.37	NoB
194	12	Copper	10	8	1	19	184	NoAB
194	12	Fluoranthene	1.9	1	1		109	NoA
194	12	Fluorene	0.084	1	1		91.5	NoA
194	12	Iron	16900	8	8	28000	3220	NoB
194	12	Lead	16.99	8	8	36	400	NoAB
194	12	Magnesium	2790	1	1	7700		NoB
194	12	Manganese	524.79	8	8	1500	419	NoB
194	12	Mercury	0.0169	8	1	0.2	0.213	NoAB
194	12	Molybdenum	0.81	8	1		23	NoA
194	12	Nickel	78.6	8	3	21	10.4	Yes
194	12	Phenanthrene	1	1	1			NoC
194	12	Pyrene	1.6	1	1		81.2	NoA
194	12	Selenium	1.2	8	1	0.8	23	NoA
194	12	Silver	11.98	8	2	2.3	2.61	Yes
194	12	Sodium	42.8	1	1	320		NoB
194	12	Thallium	0.2	1	1	0.21	0.368	NoAB
194	12	Total PAH	0.89142	1	1		0.0197	Yes
194	12	Uranium	2.24	8	1	4.9	13.8	NoAB
194	12	Vanadium	25.2	1	1	38	0.0365	NoB
194	12	Zinc	57.63	8	8	65	1380	NoAB
194	12	Alpha activity	25.2	1	1			NoC
194	12	Americium-241	0.0083	1	1		1.5	NoA
194	12	Beta activity	28.1	1	1			NoC
194	12	Cesium-137	-0.001	1	1	0.49	0.0267	NoAB
194	12	Neptunium-237	-0.0036	1	1	0.1	0.0839	NoAB
194	12	Plutonium-238	0.012	1	1	0.073	3.21	NoAB
194	12	Plutonium-239/240	-0.0008	1	1	0.025	3.15	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	12	Technetium-99	-0.1	1	1	2.5	101	NoAB
194	12	Thorium-228	0.8	1	1	1.6		NoB
194	12	Thorium-230	1	1	1	1.5	4.1	NoAB
194	12	Thorium-232	0.81	1	1	1.5		NoB
194	12	Uranium-234	0.646	1	1	1.2	5.47	NoAB
194	12	Uranium-235	0.033	1	1	0.06	0.122	NoAB
194	12	Uranium-238	0.75	1	1	1.2	0.517	NoB
194	13	Aluminum	5750	1	1	13000	4410	NoB
194	13	Antimony	0.32	1	1	0.21	0.552	NoA
194	13	Arsenic	9.9	9	3	12	0.238	NoB
194	13	Barium	118	1	1	200	140	NoAB
194	13	Beryllium	0.55	1	1	0.67	0.00567	NoB
194	13	Bis(2-ethylhexyl)phthalate	0.14	1	1			NoC
194	13	Cadmium	0.26	1	1	0.21	0.811	NoA
194	13	Calcium	98700	1	1	200000		NoB
194	13	Chromium	47.65	9	4	16	15.6	Yes
194	13	Cobalt	8.5	1	1	14	1.37	NoB
194	13	Copper	41.61	9	2	19	184	NoA
194	13	Fluoranthene	0.056	1	1		109	NoA
194	13	Iron	24000	9	9	28000	3220	NoB
194	13	Lead	25.8	9	9	36	400	NoAB
194	13	Magnesium	2690	1	1	7700		NoB
194	13	Manganese	562	9	9	1500	419	NoB
194	13	Mercury	0.0327	9	1	0.2	0.213	NoAB
194	13	Molybdenum	0.76	9	1		23	NoA
194	13	Nickel	60.31	9	2	21	10.4	Yes
194	13	Pyrene	0.049	1	1		81.2	NoA
194	13	Selenium	1.3	9	1	0.8	23	NoA
194	13	Silver	0.12	9	1	2.3	2.61	NoAB
194	13	Sodium	74.1	1	1	320		NoB
194	13	Thallium	0.19	1	1	0.21	0.368	NoAB
194	13	Total PAH	0.091347	1	1		0.0197	Yes
194	13	Uranium	2.02	9	1	4.9	13.8	NoAB
194	13	Vanadium	26.3	1	1	38	0.0365	NoB
194	13	Zinc	64.03	9	9	65	1380	NoAB
194	13	Alpha activity	24.9	1	1			NoC
194	13	Americium-241	-0.0006	1	1		1.5	NoA
194	13	Beta activity	29.8	1	1			NoC
194	13	Cesium-137	0.028	1	1	0.49	0.0267	NoB
194	13	Neptunium-237	-0.0043	1	1	0.1	0.0839	NoAB
194	13	Plutonium-238	0.0012	1	1	0.073	3.21	NoAB
194	13	Plutonium-239/240	0.0123	1	1	0.025	3.15	NoAB
194	13	Technetium-99	0.16	1	1	2.5	101	NoAB
194	13	Thorium-228	0.762	1	1	1.6		NoB
194	13	Thorium-230	1.04	1	1	1.5	4.1	NoAB
194	13	Thorium-232	0.8	1	1	1.5		NoB
194	13	Uranium-234	0.599	1	1	1.2	5.47	NoAB
194	13	Uranium-235	0.023	1	1	0.06	0.122	NoAB
194	13	Uranium-238	0.677	1	1	1.2	0.517	NoB
194	14	Aluminum	11500	1	1	13000	4410	NoB
194	14	Antimony	0.39	1	1	0.21	0.552	NoA
194	14	Arsenic	10.15	14	8	12	0.238	NoB
194	14	Barium	128	1	1	200	140	NoAB
194	14	Beryllium	0.53	1	1	0.67	0.00567	NoB
194	14	Cadmium	0.032	1	1	0.21	0.811	NoAB
194	14	Calcium	214	1	1	200000		NoB
194	14	Chromium	52.12	14	8	16	15.6	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	14	Cobalt	11.2	1	1	14	1.37	NoB
194	14	Copper	9.4	14	1	19	184	NoAB
194	14	Iron	17200	14	14	28000	3220	NoB
194	14	Lead	21.45	14	14	36	400	NoAB
194	14	Magnesium	1370	1	1	7700		NoB
194	14	Manganese	1420	14	14	1500	419	NoB
194	14	Mercury	8.14	14	2	0.2	0.213	Yes
194	14	Molybdenum	0.92	14	1		23	NoA
194	14	Nickel	11	14	1	21	10.4	NoB
194	14	Selenium	1	14	1	0.8	23	NoA
194	14	Silver	0.036	14	1	2.3	2.61	NoAB
194	14	Sodium	36.8	1	1	320		NoB
194	14	Thallium	0.25	1	1	0.21	0.368	NoA
194	14	Uranium	2.91	14	1	4.9	13.8	NoAB
194	14	Vanadium	30.8	1	1	38	0.0365	NoB
194	14	Zinc	60.78	14	14	65	1380	NoAB
194	14	Alpha activity	28.4	1	1			NoC
194	14	Americium-241	-0.002	1	1		1.5	NoA
194	14	Beta activity	34.3	1	1			NoC
194	14	Cesium-137	0.00007	1	1	0.49	0.0267	NoAB
194	14	Neptunium-237	0	1	1	0.1	0.0839	NoAB
194	14	Plutonium-238	0.017	1	1	0.073	3.21	NoAB
194	14	Plutonium-239/240	0.0015	1	1	0.025	3.15	NoAB
194	14	Technetium-99	0.32	1	1	2.5	101	NoAB
194	14	Thorium-228	0.99	1	1	1.6		NoB
194	14	Thorium-230	1.04	1	1	1.5	4.1	NoAB
194	14	Thorium-232	0.92	1	1	1.5		NoB
194	14	Uranium-234	0.838	1	1	1.2	5.47	NoAB
194	14	Uranium-235	0.054	1	1	0.06	0.122	NoAB
194	14	Uranium-238	0.97	1	1	1.2	0.517	NoB
194	15	Arsenic	11.74	13	6	12	0.238	NoB
194	15	Chromium	53.33	13	5	16	15.6	Yes
194	15	Iron	15440.02	13	13	28000	3220	NoB
194	15	Lead	29.22	13	12	36	400	NoAB
194	15	Manganese	827.74	13	13	1500	419	NoB
194	15	Silver	11.68	13	1	2.3	2.61	Yes
194	15	Zinc	53.19	13	13	65	1380	NoAB
194	16	Aluminum	6230	1	1	13000	4410	NoB
194	16	Antimony	0.74	1	1	0.21	0.552	Yes
194	16	Arsenic	17.8	18	6	12	0.238	Yes
194	16	Barium	71.8	1	1	200	140	NoAB
194	16	Beryllium	0.87	1	1	0.67	0.00567	Yes
194	16	Cadmium	0.13	1	1	0.21	0.811	NoAB
194	16	Calcium	11300	1	1	200000		NoB
194	16	Chromium	53.24	18	10	16	15.6	Yes
194	16	Cobalt	6.9	1	1	14	1.37	NoB
194	16	Copper	11.5	18	1	19	184	NoAB
194	16	Iron	26700	18	18	28000	3220	NoB
194	16	Lead	22.72	18	18	36	400	NoAB
194	16	Magnesium	1170	1	1	7700		NoB
194	16	Manganese	849	18	18	1500	419	NoB
194	16	Mercury	0.0262	18	1	0.2	0.213	NoAB
194	16	Molybdenum	1.9	18	1		23	NoA
194	16	Nickel	72.03	18	4	21	10.4	Yes
194	16	Selenium	1.4	18	1	0.8	23	NoA
194	16	Silver	0.033	18	1	2.3	2.61	NoAB
194	16	Sodium	33.6	1	1	320		NoB
194	16	Thallium	0.63	1	1	0.21	0.368	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	16	Total PAH	0.0062	1	1		0.0197	NoA
194	16	Uranium	3.17	18	1	4.9	13.8	NoAB
194	16	Vanadium	41.1	1	1	38	0.0365	Yes
194	16	Zinc	69.31	18	18	65	1380	NoA
194	16	Alpha activity	28.6	1	1			NoC
194	16	Americium-241	0.001	1	1		1.5	NoA
194	16	Beta activity	33.4	1	1			NoC
194	16	Cesium-137	0.239	1	1	0.49	0.0267	NoB
194	16	Neptunium-237	0.01	1	1	0.1	0.0839	NoAB
194	16	Plutonium-238	0.022	1	1	0.073	3.21	NoAB
194	16	Plutonium-239/240	0.012	1	1	0.025	3.15	NoAB
194	16	Technetium-99	0.34	1	1	2.5	101	NoAB
194	16	Thorium-228	0.89	1	1	1.6		NoB
194	16	Thorium-230	1.07	1	1	1.5	4.1	NoAB
194	16	Thorium-232	0.97	1	1	1.5		NoB
194	16	Uranium-234	1.12	1	1	1.2	5.47	NoAB
194	16	Uranium-235	0.056	1	1	0.06	0.122	NoAB
194	16	Uranium-238	1.06	1	1	1.2	0.517	NoB
194	17	Aluminum	2230	1	1	13000	4410	NoAB
194	17	Antimony	0.15	1	1	0.21	0.552	NoAB
194	17	Arsenic	13.96	8	5	12	0.238	Yes
194	17	Barium	30.7	1	1	200	140	NoAB
194	17	Benzo(ghi)perylene	0.054	1	1			NoC
194	17	Beryllium	0.26	1	1	0.67	0.00567	NoB
194	17	Bis(2-ethylhexyl)phthalate	0.094	1	1			NoC
194	17	Cadmium	1.1	1	1	0.21	0.811	Yes
194	17	Calcium	112000	1	1	200000		NoB
194	17	Chromium	46.48	8	5	16	15.6	Yes
194	17	Cobalt	3.2	1	1	14	1.37	NoB
194	17	Copper	24.27	8	2	19	184	NoA
194	17	Fluoranthene	0.2	1	1		109	NoA
194	17	Iron	20461.47	8	8	28000	3220	NoB
194	17	Lead	101.67	8	8	36	400	NoA
194	17	Magnesium	7460	1	1	7700		NoB
194	17	Manganese	341.97	8	8	1500	419	NoAB
194	17	Molybdenum	1.2	8	1		23	NoA
194	17	Nickel	7.7	8	1	21	10.4	NoAB
194	17	Phenanthrene	0.064	1	1			NoC
194	17	Pyrene	0.14	1	1		81.2	NoA
194	17	Selenium	0.57	8	1	0.8	23	NoAB
194	17	Silver	0.056	8	1	2.3	2.61	NoAB
194	17	Sodium	148	1	1	320		NoB
194	17	Thallium	0.084	1	1	0.21	0.368	NoAB
194	17	Total PAH	0.15866	1	1		0.0197	Yes
194	17	Uranium	7.51	8	2	4.9	13.8	NoA
194	17	Vanadium	15.8	1	1	38	0.0365	NoB
194	17	Zinc	640.18	8	8	65	1380	NoA
194	17	Alpha activity	26.6	1	1			NoC
194	17	Americium-241	0.0017	1	1		1.5	NoA
194	17	Beta activity	30	1	1			NoC
194	17	Cesium-137	0.332	1	1	0.49	0.0267	NoB
194	17	Neptunium-237	0.008	1	1	0.1	0.0839	NoAB
194	17	Plutonium-238	0.0097	1	1	0.073	3.21	NoAB
194	17	Plutonium-239/240	0.02	1	1	0.025	3.15	NoAB
194	17	Technetium-99	0.03	1	1	2.5	101	NoAB
194	17	Thorium-228	0.156	1	1	1.6		NoB
194	17	Thorium-230	0.7	1	1	1.5	4.1	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	17	Thorium-232	0.179	1	1	1.5		NoB
194	17	Uranium-234	0.75	1	1	1.2	5.47	NoAB
194	17	Uranium-235	0.04	1	1	0.06	0.122	NoAB
194	17	Uranium-238	0.98	1	1	1.2	0.517	NoB
194	18	Aluminum	11800	1	1	13000	4410	NoB
194	18	Antimony	0.49	1	1	0.21	0.552	NoA
194	18	Arsenic	13.5	12	10	12	0.238	Yes
194	18	Barium	128	1	1	200	140	NoAB
194	18	Beryllium	0.74	1	1	0.67	0.00567	Yes
194	18	Cadmium	0.1	1	1	0.21	0.811	NoAB
194	18	Calcium	3180	1	1	200000		NoB
194	18	Chromium	68.48	12	5	16	15.6	Yes
194	18	Cobalt	9.9	1	1	14	1.37	NoB
194	18	Copper	31.21	12	2	19	184	NoA
194	18	Iron	21300	12	12	28000	3220	NoB
194	18	Lead	19.4	12	11	36	400	NoAB
194	18	Magnesium	1620	1	1	7700		NoB
194	18	Manganese	974.49	12	12	1500	419	NoB
194	18	Mercury	0.0604	12	1	0.2	0.213	NoAB
194	18	Molybdenum	1	12	1		23	NoA
194	18	Nickel	57.79	12	2	21	10.4	Yes
194	18	Selenium	1	12	1	0.8	23	NoA
194	18	Silver	0.62	12	1	2.3	2.61	NoAB
194	18	Sodium	26.4	1	1	320		NoB
194	18	Thallium	0.2	1	1	0.21	0.368	NoAB
194	18	Uranium	7.93	12	2	4.9	13.8	NoA
194	18	Vanadium	35.8	1	1	38	0.0365	NoB
194	18	Zinc	54.61	12	12	65	1380	NoAB
194	18	Alpha activity	33.5	1	1			NoC
194	18	Americium-241	-0.0023	1	1		1.5	NoA
194	18	Beta activity	29.4	1	1			NoC
194	18	Cesium-137	0.139	1	1	0.49	0.0267	NoB
194	18	Neptunium-237	-0.0008	1	1	0.1	0.0839	NoAB
194	18	Plutonium-238	0.014	1	1	0.073	3.21	NoAB
194	18	Plutonium-239/240	0.022	1	1	0.025	3.15	NoAB
194	18	Technetium-99	0.25	1	1	2.5	101	NoAB
194	18	Thorium-228	0.82	1	1	1.6		NoB
194	18	Thorium-230	0.87	1	1	1.5	4.1	NoAB
194	18	Thorium-232	0.77	1	1	1.5		NoB
194	18	Uranium-234	0.73	1	1	1.2	5.47	NoAB
194	18	Uranium-235	0.05	1	1	0.06	0.122	NoAB
194	18	Uranium-238	0.86	1	1	1.2	0.517	NoB
194	19	Aluminum	9970	1	1	13000	4410	NoB
194	19	Antimony	0.49	1	1	0.21	0.552	NoA
194	19	Arsenic	12	9	4	12	0.238	Yes
194	19	Barium	110	1	1	200	140	NoAB
194	19	Beryllium	0.54	1	1	0.67	0.00567	NoB
194	19	Bis(2-ethylhexyl)phthalate	0.095	1	1			NoC
194	19	Cadmium	0.063	1	1	0.21	0.811	NoAB
194	19	Calcium	2500	1	1	200000		NoB
194	19	Chromium	48.35	9	5	16	15.6	Yes
194	19	Cobalt	5.8	1	1	14	1.37	NoB
194	19	Copper	25.1	9	2	19	184	NoA
194	19	Iron	15606.53	9	9	28000	3220	NoB
194	19	Lead	38.22	9	8	36	400	NoA
194	19	Magnesium	1320	1	1	7700		NoB
194	19	Manganese	754.79	9	8	1500	419	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	19	Mercury	0.0306	9	1	0.2	0.213	NoAB
194	19	Molybdenum	19.56	9	2		23	NoA
194	19	Nickel	58.38	9	2	21	10.4	Yes
194	19	Selenium	1.3	9	1	0.8	23	NoA
194	19	Silver	0.04	9	1	2.3	2.61	NoAB
194	19	Sodium	31.7	1	1	320		NoB
194	19	Thallium	0.14	1	1	0.21	0.368	NoAB
194	19	Total PAH	0.0096	1	1		0.0197	NoA
194	19	Uranium	2.86	9	1	4.9	13.8	NoAB
194	19	Vanadium	25.2	1	1	38	0.0365	NoB
194	19	Zinc	51.39	9	8	65	1380	NoAB
194	19	Alpha activity	25.2	1	1			NoC
194	19	Americium-241	0.016	1	1		1.5	NoA
194	19	Beta activity	39.8	1	1			NoC
194	19	Cesium-137	0.206	1	1	0.49	0.0267	NoB
194	19	Neptunium-237	-0.005	1	1	0.1	0.0839	NoAB
194	19	Plutonium-238	0.011	1	1	0.073	3.21	NoAB
194	19	Plutonium-239/240	0.007	1	1	0.025	3.15	NoAB
194	19	Technetium-99	0.35	1	1	2.5	101	NoAB
194	19	Thorium-228	1	1	1	1.6		NoB
194	19	Thorium-230	1.09	1	1	1.5	4.1	NoAB
194	19	Thorium-232	0.91	1	1	1.5		NoB
194	19	Uranium-234	0.93	1	1	1.2	5.47	NoAB
194	19	Uranium-235	0.04	1	1	0.06	0.122	NoAB
194	19	Uranium-238	0.96	1	1	1.2	0.517	NoB
194	2	Aluminum	8430	1	1	13000	4410	NoB
194	2	Antimony	0.4	1	1	0.21	0.552	NoA
194	2	Arsenic	8.07	13	3	12	0.238	NoB
194	2	Barium	126	1	1	200	140	NoAB
194	2	Beryllium	0.55	1	1	0.67	0.00567	NoB
194	2	Cadmium	0.13	1	1	0.21	0.811	NoAB
194	2	Calcium	24100	1	1	200000		NoB
194	2	Chromium	59.6	13	5	16	15.6	Yes
194	2	Cobalt	6.8	1	1	14	1.37	NoB
194	2	Copper	26.02	13	2	19	184	NoA
194	2	Iron	14700	13	13	28000	3220	NoB
194	2	Lead	23.33	13	13	36	400	NoAB
194	2	Magnesium	1410	1	1	7700		NoB
194	2	Manganese	744.03	13	13	1500	419	NoB
194	2	Mercury	0.0347	13	1	0.2	0.213	NoAB
194	2	Molybdenum	0.46	13	1		23	NoA
194	2	Nickel	14.2	13	1	21	10.4	NoB
194	2	Selenium	1.1	13	1	0.8	23	NoA
194	2	Silver	13.91	13	2	2.3	2.61	Yes
194	2	Sodium	54.7	1	1	320		NoB
194	2	Uranium	33.64	13	2	4.9	13.8	Yes
194	2	Vanadium	25.6	1	1	38	0.0365	NoB
194	2	Zinc	39.76	13	13	65	1380	NoAB
194	2	Alpha activity	25.6	1	1			NoC
194	2	Americium-241	0.008	1	1		1.5	NoA
194	2	Beta activity	33	1	1			NoC
194	2	Cesium-137	0.146	1	1	0.49	0.0267	NoB
194	2	Neptunium-237	0.051	1	1	0.1	0.0839	NoAB
194	2	Plutonium-238	0.0043	1	1	0.073	3.21	NoAB
194	2	Plutonium-239/240	0.018	1	1	0.025	3.15	NoAB
194	2	Technetium-99	-1.05	1	1	2.5	101	NoAB
194	2	Thorium-228	0.91	1	1	1.6		NoB
194	2	Thorium-230	1	1	1	1.5	4.1	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	2	Thorium-232	0.89	1	1	1.5		NoB
194	2	Uranium-234	0.91	1	1	1.2	5.47	NoAB
194	2	Uranium-235	0.066	1	1	0.06	0.122	NoA
194	2	Uranium-238	1.42	1	1	1.2	0.517	Yes
194	20	Aluminum	8610	1	1	13000	4410	NoB
194	20	Antimony	0.37	1	1	0.21	0.552	NoA
194	20	Arsenic	16.4	13	6	12	0.238	Yes
194	20	Barium	326	1	1	200	140	Yes
194	20	Beryllium	1.1	1	1	0.67	0.00567	Yes
194	20	Bis(2-ethylhexyl)phthalate	0.36	1	1			NoC
194	20	Cadmium	0.25	1	1	0.21	0.811	NoA
194	20	Calcium	1910	1	1	200000		NoB
194	20	Chromium	52.36	13	7	16	15.6	Yes
194	20	Cobalt	21.1	1	1	14	1.37	Yes
194	20	Copper	29.4	13	3	19	184	NoA
194	20	Iron	27800	13	13	28000	3220	NoB
194	20	Lead	46.5	13	13	36	400	NoA
194	20	Magnesium	1050	1	1	7700		NoB
194	20	Manganese	4670	13	13	1500	419	Yes
194	20	Mercury	7.28	13	2	0.2	0.213	Yes
194	20	Molybdenum	1.2	13	1		23	NoA
194	20	Nickel	65.7	13	2	21	10.4	Yes
194	20	Selenium	2.4	13	1	0.8	23	NoA
194	20	Silver	12.22	13	2	2.3	2.61	Yes
194	20	Sodium	41.3	1	1	320		NoB
194	20	Thallium	0.22	1	1	0.21	0.368	NoA
194	20	Total PAH	0.031	1	1		0.0197	Yes
194	20	Uranium	7.17	13	2	4.9	13.8	NoA
194	20	Vanadium	38.1	1	1	38	0.0365	Yes
194	20	Zinc	52.82	13	13	65	1380	NoAB
194	20	Alpha activity	27	1	1			NoC
194	20	Americium-241	0.033	1	1		1.5	NoA
194	20	Beta activity	36.6	1	1			NoC
194	20	Cesium-137	0.217	1	1	0.49	0.0267	NoB
194	20	Neptunium-237	-0.0062	1	1	0.1	0.0839	NoAB
194	20	Plutonium-238	0.014	1	1	0.073	3.21	NoAB
194	20	Plutonium-239/240	0.01	1	1	0.025	3.15	NoAB
194	20	Technetium-99	0.1	1	1	2.5	101	NoAB
194	20	Thorium-228	0.92	1	1	1.6		NoB
194	20	Thorium-230	1.03	1	1	1.5	4.1	NoAB
194	20	Thorium-232	0.98	1	1	1.5		NoB
194	20	Uranium-234	0.86	1	1	1.2	5.47	NoAB
194	20	Uranium-235	0.043	1	1	0.06	0.122	NoAB
194	20	Uranium-238	0.97	1	1	1.2	0.517	NoB
194	21	Aluminum	5000	1	1	13000	4410	NoB
194	21	Antimony	0.93	1	1	0.21	0.552	Yes
194	21	Arsenic	6.97	4	2	12	0.238	NoB
194	21	Barium	48.2	1	1	200	140	NoAB
194	21	Beryllium	0.3	1	1	0.67	0.00567	NoB
194	21	Cadmium	0.21	1	1	0.21	0.811	NoA
194	21	Calcium	226000	1	1	200000		NoE
194	21	Chromium	55.09	4	3	16	15.6	Yes
194	21	Cobalt	3.9	1	1	14	1.37	NoB
194	21	Copper	5.6	4	1	19	184	NoAB
194	21	Iron	14049.51	4	4	28000	3220	NoB
194	21	Lead	16.63	4	4	36	400	NoAB
194	21	Magnesium	5770	1	1	7700		NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	21	Manganese	293	4	4	1500	419	NoAB
194	21	Mercury	6.62	4	2	0.2	0.213	Yes
194	21	Molybdenum	1.2	4	1		23	NoA
194	21	Nickel	70.12	4	2	21	10.4	Yes
194	21	Selenium	4.03	4	2	0.8	23	NoA
194	21	Silver	0.076	4	1	2.3	2.61	NoAB
194	21	Sodium	174	1	1	320		NoB
194	21	Thallium	0.64	1	1	0.21	0.368	Yes
194	21	Total PAH	0.0141	1	1		0.0197	NoA
194	21	Uranium	2.77	4	1	4.9	13.8	NoAB
194	21	Vanadium	15.2	1	1	38	0.0365	NoB
194	21	Zinc	42.89	4	4	65	1380	NoAB
194	21	Alpha activity	22.7	1	1			NoC
194	21	Americium-241	0.0007	1	1		1.5	NoA
194	21	Beta activity	25.5	1	1			NoC
194	21	Cesium-137	0.226	1	1	0.49	0.0267	NoB
194	21	Neptunium-237	-0.0024	1	1	0.1	0.0839	NoAB
194	21	Plutonium-238	0.041	1	1	0.073	3.21	NoAB
194	21	Plutonium-239/240	-0.0013	1	1	0.025	3.15	NoAB
194	21	Technetium-99	0.24	1	1	2.5	101	NoAB
194	21	Thorium-228	0.84	1	1	1.6		NoB
194	21	Thorium-230	1.29	1	1	1.5	4.1	NoAB
194	21	Thorium-232	0.86	1	1	1.5		NoB
194	21	Uranium-234	0.94	1	1	1.2	5.47	NoAB
194	21	Uranium-235	0.028	1	1	0.06	0.122	NoAB
194	21	Uranium-238	0.93	1	1	1.2	0.517	NoB
194	22	Aluminum	10500	1	1	13000	4410	NoB
194	22	Antimony	0.38	1	1	0.21	0.552	NoA
194	22	Arsenic	10.62	8	6	12	0.238	NoB
194	22	Barium	148	1	1	200	140	NoB
194	22	Benzoic acid	0.48	1	1			NoC
194	22	Beryllium	0.61	1	1	0.67	0.00567	NoB
194	22	Cadmium	0.1	1	1	0.21	0.811	NoAB
194	22	Calcium	1110	1	1	200000		NoB
194	22	Chromium	48.98	8	6	16	15.6	Yes
194	22	Cobalt	13.9	1	1	14	1.37	NoB
194	22	Copper	21.81	8	2	19	184	NoA
194	22	Iron	17700	8	8	28000	3220	NoB
194	22	Lead	23.6	8	8	36	400	NoAB
194	22	Magnesium	1340	1	1	7700		NoB
194	22	Manganese	1700	8	8	1500	419	Yes
194	22	Mercury	0.0551	8	1	0.2	0.213	NoAB
194	22	Molybdenum	0.86	8	1		23	NoA
194	22	Nickel	14	8	1	21	10.4	NoB
194	22	PCB, Total	18	10	1		0.0648	Yes
194	22	Selenium	1.1	8	1	0.8	23	NoA
194	22	Silver	0.085	8	1	2.3	2.61	NoAB
194	22	Sodium	24.1	1	1	320		NoB
194	22	Thallium	0.23	1	1	0.21	0.368	NoA
194	22	Uranium	3.05	20	13	4.9	13.8	NoAB
194	22	Vanadium	31.7	1	1	38	0.0365	NoB
194	22	Zinc	41.2	8	8	65	1380	NoAB
194	22	Alpha activity	26.7	1	1			NoC
194	22	Americium-241	-0.004	1	1		1.5	NoA
194	22	Beta activity	30.9	1	1			NoC
194	22	Cesium-137	0.288	2	2	0.49	0.0267	NoB
194	22	Neptunium-237	0.003	1	1	0.1	0.0839	NoAB
194	22	Plutonium-238	0.011	1	1	0.073	3.21	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	22	Plutonium-239/240	0.018	1	1	0.025	3.15	NoAB
194	22	Technetium-99	0.37	2	2	2.5	101	NoAB
194	22	Thorium-228	0.71	1	1	1.6		NoB
194	22	Thorium-230	0.84	1	1	1.5	4.1	NoAB
194	22	Thorium-232	0.67	1	1	1.5		NoB
194	22	Uranium-234	0.95	2	2	1.2	5.47	NoAB
194	22	Uranium-235	0.011	2	2	0.06	0.122	NoAB
194	22	Uranium-238	1.02	2	2	1.2	0.517	NoB
194	23	Aluminum	9520	1	1	13000	4410	NoB
194	23	Antimony	0.41	1	1	0.21	0.552	NoA
194	23	Arsenic	18.03	12	7	12	0.238	Yes
194	23	Barium	88.1	1	1	200	140	NoAB
194	23	Beryllium	0.55	1	1	0.67	0.00567	NoB
194	23	Cadmium	0.053	1	1	0.21	0.811	NoAB
194	23	Calcium	529	1	1	200000		NoB
194	23	Chromium	65.97	12	7	16	15.6	Yes
194	23	Cobalt	7.2	1	1	14	1.37	NoB
194	23	Copper	29.31	12	3	19	184	NoA
194	23	Iron	33875.03	12	12	28000	3220	Yes
194	23	Lead	53.74	12	12	36	400	NoA
194	23	Magnesium	1190	1	1	7700		NoB
194	23	Manganese	767.45	12	12	1500	419	NoB
194	23	Mercury	0.0236	12	1	0.2	0.213	NoAB
194	23	Molybdenum	0.69	12	1		23	NoA
194	23	Nickel	88.92	12	5	21	10.4	Yes
194	23	Selenium	1.4	12	1	0.8	23	NoA
194	23	Silver	11.48	12	2	2.3	2.61	Yes
194	23	Sodium	29.1	1	1	320		NoB
194	23	Thallium	0.16	1	1	0.21	0.368	NoAB
194	23	Total PAH	0.0099	1	1		0.0197	NoA
194	23	Uranium	8	12	2	4.9	13.8	NoA
194	23	Vanadium	31.5	1	1	38	0.0365	NoB
194	23	Zinc	226.89	12	12	65	1380	NoA
194	23	Alpha activity	32.2	1	1			NoC
194	23	Americium-241	0.0007	1	1		1.5	NoA
194	23	Beta activity	39.1	1	1			NoC
194	23	Cesium-137	0.283	1	1	0.49	0.0267	NoB
194	23	Neptunium-237	-0.002	1	1	0.1	0.0839	NoAB
194	23	Plutonium-238	0.023	1	1	0.073	3.21	NoAB
194	23	Plutonium-239/240	0.01	1	1	0.025	3.15	NoAB
194	23	Technetium-99	0.19	1	1	2.5	101	NoAB
194	23	Thorium-228	0.9	1	1	1.6		NoB
194	23	Thorium-230	1.01	1	1	1.5	4.1	NoAB
194	23	Thorium-232	0.97	1	1	1.5		NoB
194	23	Uranium-234	0.83	1	1	1.2	5.47	NoAB
194	23	Uranium-235	0.081	1	1	0.06	0.122	NoA
194	23	Uranium-238	0.96	1	1	1.2	0.517	NoB
194	24	Aluminum	10600	1	1	13000	4410	NoB
194	24	Antimony	0.55	1	1	0.21	0.552	NoA
194	24	Arsenic	9.37	13	8	12	0.238	NoB
194	24	Barium	115	1	1	200	140	NoAB
194	24	Beryllium	0.63	1	1	0.67	0.00567	NoB
194	24	Cadmium	0.11	1	1	0.21	0.811	NoAB
194	24	Calcium	8780	1	1	200000		NoB
194	24	Chromium	50.21	13	8	16	15.6	Yes
194	24	Cobalt	9	1	1	14	1.37	NoB
194	24	Copper	21.79	13	3	19	184	NoA
194	24	Iron	20100	13	13	28000	3220	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	24	Lead	16.77	13	12	36	400	NoAB
194	24	Magnesium	1790	1	1	7700		NoB
194	24	Manganese	983.61	13	13	1500	419	NoB
194	24	Mercury	0.0351	13	1	0.2	0.213	NoAB
194	24	Molybdenum	0.93	13	1		23	NoA
194	24	Nickel	84.13	13	2	21	10.4	Yes
194	24	Selenium	1.4	13	1	0.8	23	NoA
194	24	Silver	0.046	13	1	2.3	2.61	NoAB
194	24	Sodium	36.4	1	1	320		NoB
194	24	Thallium	0.21	1	1	0.21	0.368	NoA
194	24	Total PAH	0.0228	1	1		0.0197	Yes
194	24	Uranium	6.43	13	2	4.9	13.8	NoA
194	24	Vanadium	29.9	1	1	38	0.0365	NoB
194	24	Zinc	49.08	13	13	65	1380	NoAB
194	24	Alpha activity	25.7	1	1			NoC
194	24	Americium-241	0.01	1	1		1.5	NoA
194	24	Beta activity	34.5	1	1			NoC
194	24	Cesium-137	0.32	1	1	0.49	0.0267	NoB
194	24	Neptunium-237	-0.0028	1	1	0.1	0.0839	NoAB
194	24	Plutonium-238	0.013	1	1	0.073	3.21	NoAB
194	24	Plutonium-239/240	0.025	1	1	0.025	3.15	NoA
194	24	Technetium-99	0.23	1	1	2.5	101	NoAB
194	24	Thorium-228	0.75	1	1	1.6		NoB
194	24	Thorium-230	1.04	1	1	1.5	4.1	NoAB
194	24	Thorium-232	0.94	1	1	1.5		NoB
194	24	Uranium-234	0.84	1	1	1.2	5.47	NoAB
194	24	Uranium-235	0.051	1	1	0.06	0.122	NoAB
194	24	Uranium-238	1.02	1	1	1.2	0.517	NoB
194	25	Aluminum	7470	1	1	13000	4410	NoB
194	25	Antimony	0.33	1	1	0.21	0.552	NoA
194	25	Arsenic	10.9	5	1	12	0.238	NoB
194	25	Barium	300	1	1	200	140	Yes
194	25	Beryllium	0.65	1	1	0.67	0.00567	NoB
194	25	Cadmium	0.093	1	1	0.21	0.811	NoAB
194	25	Calcium	2340	1	1	200000		NoB
194	25	Chromium	61.25	5	4	16	15.6	Yes
194	25	Cobalt	9.6	1	1	14	1.37	NoB
194	25	Copper	10.2	5	1	19	184	NoAB
194	25	Iron	19200	5	5	28000	3220	NoB
194	25	Lead	24.6	5	5	36	400	NoAB
194	25	Magnesium	1180	1	1	7700		NoB
194	25	Manganese	1800	5	5	1500	419	Yes
194	25	Mercury	0.029	5	1	0.2	0.213	NoAB
194	25	Molybdenum	0.78	5	1		23	NoA
194	25	Nickel	63.32	5	2	21	10.4	Yes
194	25	Selenium	1.4	5	1	0.8	23	NoA
194	25	Silver	0.034	5	1	2.3	2.61	NoAB
194	25	Sodium	41.8	1	1	320		NoB
194	25	Thallium	0.17	1	1	0.21	0.368	NoAB
194	25	Total PAH	0.0206	1	1		0.0197	Yes
194	25	Uranium	3.22	5	1	4.9	13.8	NoAB
194	25	Vanadium	29.8	1	1	38	0.0365	NoB
194	25	Zinc	42.77	5	5	65	1380	NoAB
194	25	Alpha activity	29.8	1	1			NoC
194	25	Americium-241	0.0049	1	1		1.5	NoA
194	25	Beta activity	45.2	1	1			NoC
194	25	Cesium-137	0.142	1	1	0.49	0.0267	NoB
194	25	Neptunium-237	0.005	1	1	0.1	0.0839	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	25	Plutonium-238	0.0106	1	1	0.073	3.21	NoAB
194	25	Plutonium-239/240	0.0069	1	1	0.025	3.15	NoAB
194	25	Technetium-99	-0.06	1	1	2.5	101	NoAB
194	25	Thorium-228	1.1	1	1	1.6		NoB
194	25	Thorium-230	1.2	1	1	1.5	4.1	NoAB
194	25	Thorium-232	1.08	1	1	1.5		NoB
194	25	Uranium-234	0.83	1	1	1.2	5.47	NoAB
194	25	Uranium-235	0.043	1	1	0.06	0.122	NoAB
194	25	Uranium-238	1.07	1	1	1.2	0.517	NoB
194	26	Aluminum	11400	1	1	13000	4410	NoB
194	26	Antimony	0.45	1	1	0.21	0.552	NoA
194	26	Arsenic	9.09	10	4	12	0.238	NoB
194	26	Barium	117	1	1	200	140	NoAB
194	26	Beryllium	0.7	1	1	0.67	0.00567	Yes
194	26	Cadmium	0.029	1	1	0.21	0.811	NoAB
194	26	Calcium	683	1	1	200000		NoB
194	26	Chromium	41.82	10	3	16	15.6	Yes
194	26	Cobalt	9.4	1	1	14	1.37	NoB
194	26	Copper	19.14	10	2	19	184	NoA
194	26	Iron	16300	10	10	28000	3220	NoB
194	26	Lead	33.11	10	9	36	400	NoAB
194	26	Magnesium	1320	1	1	7700		NoB
194	26	Manganese	868	10	10	1500	419	NoB
194	26	Mercury	0.0401	10	1	0.2	0.213	NoAB
194	26	Molybdenum	0.74	10	1		23	NoA
194	26	Nickel	12.2	10	1	21	10.4	NoB
194	26	Selenium	1	10	1	0.8	23	NoA
194	26	Silver	10.27	10	2	2.3	2.61	Yes
194	26	Sodium	53.4	1	1	320		NoB
194	26	Thallium	0.39	1	1	0.21	0.368	Yes
194	26	Uranium	2.18	10	1	4.9	13.8	NoAB
194	26	Vanadium	29.5	1	1	38	0.0365	NoB
194	26	Zinc	42.07	10	10	65	1380	NoAB
194	26	Alpha activity	24.9	1	1			NoC
194	26	Americium-241	0.0008	1	1		1.5	NoA
194	26	Beta activity	29.9	1	1			NoC
194	26	Cesium-137	-0.003	1	1	0.49	0.0267	NoAB
194	26	Neptunium-237	-0.0044	1	1	0.1	0.0839	NoAB
194	26	Plutonium-238	0.002	1	1	0.073	3.21	NoAB
194	26	Plutonium-239/240	0.009	1	1	0.025	3.15	NoAB
194	26	Technetium-99	0.06	1	1	2.5	101	NoAB
194	26	Thorium-228	0.88	1	1	1.6		NoB
194	26	Thorium-230	0.9	1	1	1.5	4.1	NoAB
194	26	Thorium-232	0.89	1	1	1.5		NoB
194	26	Uranium-234	0.69	1	1	1.2	5.47	NoAB
194	26	Uranium-235	0.021	1	1	0.06	0.122	NoAB
194	26	Uranium-238	0.73	1	1	1.2	0.517	NoB
194	27	Aluminum	7370	1	1	13000	4410	NoB
194	27	Antimony	0.27	1	1	0.21	0.552	NoA
194	27	Arsenic	10.71	9	3	12	0.238	NoB
194	27	Barium	107	1	1	200	140	NoAB
194	27	Beryllium	0.48	1	1	0.67	0.00567	NoB
194	27	Cadmium	0.097	1	1	0.21	0.811	NoAB
194	27	Calcium	1400	1	1	200000		NoB
194	27	Chromium	52.17	9	7	16	15.6	Yes
194	27	Cobalt	6.9	1	1	14	1.37	NoB
194	27	Copper	9.8	9	1	19	184	NoAB
194	27	Iron	13892.41	9	9	28000	3220	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	27	Lead	17.09	9	9	36	400	NoAB
194	27	Magnesium	1390	1	1	7700		NoB
194	27	Manganese	631.28	9	9	1500	419	NoB
194	27	Mercury	0.0243	9	1	0.2	0.213	NoAB
194	27	Molybdenum	0.47	9	1		23	NoA
194	27	Nickel	65.5	9	2	21	10.4	Yes
194	27	Selenium	1.2	9	1	0.8	23	NoA
194	27	Silver	10.12	9	2	2.3	2.61	Yes
194	27	Sodium	51.2	1	1	320		NoB
194	27	Thallium	0.075	1	1	0.21	0.368	NoAB
194	27	Total PAH	0.0083	1	1		0.0197	NoA
194	27	Uranium	2.59	9	1	4.9	13.8	NoAB
194	27	Vanadium	25	1	1	38	0.0365	NoB
194	27	Zinc	41.65	9	9	65	1380	NoAB
194	27	Alpha activity	29.6	1	1			NoC
194	27	Americium-241	0.012	1	1		1.5	NoA
194	27	Beta activity	30.7	1	1			NoC
194	27	Cesium-137	0.22	1	1	0.49	0.0267	NoB
194	27	Neptunium-237	-0.0042	1	1	0.1	0.0839	NoAB
194	27	Plutonium-238	0.019	1	1	0.073	3.21	NoAB
194	27	Plutonium-239/240	0.012	1	1	0.025	3.15	NoAB
194	27	Technetium-99	0.03	1	1	2.5	101	NoAB
194	27	Thorium-228	0.7	1	1	1.6		NoB
194	27	Thorium-230	0.98	1	1	1.5	4.1	NoAB
194	27	Thorium-232	0.74	1	1	1.5		NoB
194	27	Uranium-234	0.7	1	1	1.2	5.47	NoAB
194	27	Uranium-235	0.032	1	1	0.06	0.122	NoAB
194	27	Uranium-238	0.87	1	1	1.2	0.517	NoB
194	28	Aluminum	7760	1	1	13000	4410	NoB
194	28	Antimony	0.48	1	1	0.21	0.552	NoA
194	28	Arsenic	14.8	12	4	12	0.238	Yes
194	28	Barium	143	1	1	200	140	NoB
194	28	Beryllium	0.71	1	1	0.67	0.00567	Yes
194	28	Cadmium	0.098	1	1	0.21	0.811	NoAB
194	28	Calcium	42500	1	1	200000		NoB
194	28	Chromium	72.27	12	10	16	15.6	Yes
194	28	Cobalt	11.3	1	1	14	1.37	NoB
194	28	Copper	10.2	12	1	19	184	NoAB
194	28	Iron	21800	12	12	28000	3220	NoB
194	28	Lead	26.1	12	12	36	400	NoAB
194	28	Magnesium	2090	1	1	7700		NoB
194	28	Manganese	2400	12	12	1500	419	Yes
194	28	Mercury	0.0232	12	1	0.2	0.213	NoAB
194	28	Molybdenum	1.1	12	1		23	NoA
194	28	Nickel	69.74	12	4	21	10.4	Yes
194	28	Selenium	1.5	12	1	0.8	23	NoA
194	28	Silver	11.83	12	4	2.3	2.61	Yes
194	28	Sodium	92	1	1	320		NoB
194	28	Thallium	0.17	1	1	0.21	0.368	NoAB
194	28	Total PAH	0.0051	1	1		0.0197	NoA
194	28	Uranium	2.82	12	1	4.9	13.8	NoAB
194	28	Vanadium	40.6	1	1	38	0.0365	Yes
194	28	Zinc	47.15	12	12	65	1380	NoAB
194	28	Alpha activity	34.8	1	1			NoC
194	28	Americium-241	0.013	1	1		1.5	NoA
194	28	Beta activity	30	1	1			NoC
194	28	Cesium-137	0.071	1	1	0.49	0.0267	NoB
194	28	Neptunium-237	-0.0056	1	1	0.1	0.0839	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	28	Plutonium-238	0.026	1	1	0.073	3.21	NoAB
194	28	Plutonium-239/240	0.0012	1	1	0.025	3.15	NoAB
194	28	Technetium-99	0.22	1	1	2.5	101	NoAB
194	28	Thorium-228	0.91	1	1	1.6		NoB
194	28	Thorium-230	1.09	1	1	1.5	4.1	NoAB
194	28	Thorium-232	0.8	1	1	1.5		NoB
194	28	Uranium-234	0.77	1	1	1.2	5.47	NoAB
194	28	Uranium-235	0.053	1	1	0.06	0.122	NoAB
194	28	Uranium-238	0.94	1	1	1.2	0.517	NoB
194	29	Aluminum	11900	1	1	13000	4410	NoB
194	29	Antimony	0.71	1	1	0.21	0.552	Yes
194	29	Arsenic	9.8	5	3	12	0.238	NoB
194	29	Barium	119	1	1	200	140	NoAB
194	29	Beryllium	0.56	1	1	0.67	0.00567	NoB
194	29	Cadmium	0.025	1	1	0.21	0.811	NoAB
194	29	Calcium	1450	1	1	200000		NoB
194	29	Chromium	50.56	5	4	16	15.6	Yes
194	29	Cobalt	6.6	1	1	14	1.37	NoB
194	29	Copper	11.9	5	1	19	184	NoAB
194	29	Iron	20200	5	5	28000	3220	NoB
194	29	Lead	23.56	5	5	36	400	NoAB
194	29	Magnesium	1430	1	1	7700		NoB
194	29	Manganese	674	5	5	1500	419	NoB
194	29	Mercury	0.0365	5	1	0.2	0.213	NoAB
194	29	Molybdenum	0.7	5	1		23	NoA
194	29	Nickel	65.1	5	3	21	10.4	Yes
194	29	Selenium	1.2	5	1	0.8	23	NoA
194	29	Silver	9.77	5	2	2.3	2.61	Yes
194	29	Sodium	132	1	1	320		NoB
194	29	Thallium	0.29	1	1	0.21	0.368	NoA
194	29	Uranium	2.27	5	1	4.9	13.8	NoAB
194	29	Vanadium	34.6	1	1	38	0.0365	NoB
194	29	Zinc	42.26	5	5	65	1380	NoAB
194	29	Alpha activity	33.2	1	1			NoC
194	29	Americium-241	0.009	1	1		1.5	NoA
194	29	Beta activity	30.9	1	1			NoC
194	29	Cesium-137	-0.012	1	1	0.49	0.0267	NoAB
194	29	Neptunium-237	-0.0022	1	1	0.1	0.0839	NoAB
194	29	Plutonium-238	0.0004	1	1	0.073	3.21	NoAB
194	29	Plutonium-239/240	0.0014	1	1	0.025	3.15	NoAB
194	29	Technetium-99	-0.88	1	1	2.5	101	NoAB
194	29	Thorium-228	0.83	1	1	1.6		NoB
194	29	Thorium-230	0.96	1	1	1.5	4.1	NoAB
194	29	Thorium-232	0.81	1	1	1.5		NoB
194	29	Uranium-234	0.87	1	1	1.2	5.47	NoAB
194	29	Uranium-235	0.036	1	1	0.06	0.122	NoAB
194	29	Uranium-238	0.76	1	1	1.2	0.517	NoB
194	3	Aluminum	10400	1	1	13000	4410	NoB
194	3	Antimony	0.69	1	1	0.21	0.552	Yes
194	3	Arsenic	28.55	10	4	12	0.238	Yes
194	3	Barium	147	1	1	200	140	NoB
194	3	Beryllium	0.6	1	1	0.67	0.00567	NoB
194	3	Cadmium	0.083	1	1	0.21	0.811	NoAB
194	3	Calcium	4960	1	1	200000		NoB
194	3	Chromium	38.98	10	5	16	15.6	Yes
194	3	Cobalt	6.6	1	1	14	1.37	NoB
194	3	Copper	15.79	10	2	19	184	NoAB
194	3	Fluoranthene	0.052	2	1		109	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	3	Iron	17400	10	10	28000	3220	NoB
194	3	Lead	357.64	10	10	36	400	NoA
194	3	Magnesium	1230	1	1	7700		NoB
194	3	Manganese	678.38	10	10	1500	419	NoB
194	3	Mercury	0.0252	10	1	0.2	0.213	NoAB
194	3	Molybdenum	0.43	10	1		23	NoA
194	3	Nickel	66.58	10	3	21	10.4	Yes
194	3	Selenium	1.3	10	1	0.8	23	NoA
194	3	Silver	0.033	10	1	2.3	2.61	NoAB
194	3	Sodium	440	1	1	320		NoE
194	3	Total PAH	0.041	2	2		0.0197	Yes
194	3	Uranium	3.93	11	2	4.9	13.8	NoAB
194	3	Vanadium	28.1	1	1	38	0.0365	NoB
194	3	Zinc	74.95	10	10	65	1380	NoA
194	3	Alpha activity	34.2	2	2			NoC
194	3	Americium-241	0.011	2	2		1.5	NoA
194	3	Beta activity	36	2	2			NoC
194	3	Cesium-137	0.327	2	2	0.49	0.0267	NoB
194	3	Neptunium-237	0.01	2	2	0.1	0.0839	NoAB
194	3	Plutonium-238	0.008	2	2	0.073	3.21	NoAB
194	3	Plutonium-239/240	0.017	2	2	0.025	3.15	NoAB
194	3	Technetium-99	0.46	2	2	2.5	101	NoAB
194	3	Thorium-228	1.01	2	2	1.6		NoB
194	3	Thorium-230	1.12	2	2	1.5	4.1	NoAB
194	3	Thorium-232	0.99	2	2	1.5		NoB
194	3	Uranium-234	1.02	2	2	1.2	5.47	NoAB
194	3	Uranium-235	0.046	2	2	0.06	0.122	NoAB
194	3	Uranium-238	1.31	2	2	1.2	0.517	Yes
194	30	Aluminum	6630	1	1	13000	4410	NoB
194	30	Antimony	0.31	1	1	0.21	0.552	NoA
194	30	Arsenic	9.11	10	7	12	0.238	NoB
194	30	Barium	91.3	1	1	200	140	NoAB
194	30	Beryllium	0.34	1	1	0.67	0.00567	NoB
194	30	Cadmium	0.096	1	1	0.21	0.811	NoAB
194	30	Calcium	2530	1	1	200000		NoB
194	30	Chromium	56.57	10	7	16	15.6	Yes
194	30	Cobalt	4.5	1	1	14	1.37	NoB
194	30	Copper	23.12	10	3	19	184	NoA
194	30	Iron	18062.04	10	10	28000	3220	NoB
194	30	Lead	28.41	10	10	36	400	NoAB
194	30	Magnesium	914	1	1	7700		NoB
194	30	Manganese	1240.56	10	10	1500	419	NoB
194	30	Mercury	8.8	10	1	0.2	0.213	Yes
194	30	Molybdenum	0.39	10	1		23	NoA
194	30	Nickel	69.87	10	5	21	10.4	Yes
194	30	Selenium	1.2	10	1	0.8	23	NoA
194	30	Silver	9.76	10	3	2.3	2.61	Yes
194	30	Sodium	28.9	1	1	320		NoB
194	30	Thallium	0.11	1	1	0.21	0.368	NoAB
194	30	Total PAH	0.0185	1	1		0.0197	NoA
194	30	Uranium	3.23	10	1	4.9	13.8	NoAB
194	30	Vanadium	16.8	1	1	38	0.0365	NoB
194	30	Zinc	42.06	10	10	65	1380	NoAB
194	30	Alpha activity	24.7	1	1			NoC
194	30	Americium-241	0.0025	1	1		1.5	NoA
194	30	Beta activity	34.8	1	1			NoC
194	30	Cesium-137	0.262	1	1	0.49	0.0267	NoB
194	30	Neptunium-237	0.003	1	1	0.1	0.0839	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	30	Plutonium-238	0.011	1	1	0.073	3.21	NoAB
194	30	Plutonium-239/240	0.0161	1	1	0.025	3.15	NoAB
194	30	Technetium-99	0.1	1	1	2.5	101	NoAB
194	30	Thorium-228	1.04	1	1	1.6		NoB
194	30	Thorium-230	1.17	1	1	1.5	4.1	NoAB
194	30	Thorium-232	1.05	1	1	1.5		NoB
194	30	Uranium-234	0.87	1	1	1.2	5.47	NoAB
194	30	Uranium-235	0.037	1	1	0.06	0.122	NoAB
194	30	Uranium-238	1.08	1	1	1.2	0.517	NoB
194	31	Aluminum	4380	1	1	13000	4410	NoAB
194	31	Barium	41.7	1	1	200	140	NoAB
194	31	Calcium	2400	1	1	200000		NoB
194	31	Chromium	8.26	1	1	16	15.6	NoAB
194	31	Copper	6.47	1	1	19	184	NoAB
194	31	Di-n-butyl phthalate	12	1	1			NoC
194	31	Nickel	7.41	1	1	21	10.4	NoAB
194	31	Uranium	5.15	1	1	4.9	13.8	NoA
194	31	Vanadium	11.6	1	1	38	0.0365	NoB
194	31	Zinc	134	1	1	65	1380	NoA
194	31	Alpha activity	31.9	1	1			NoC
194	31	Americium-241	0.008	2	2		1.5	NoA
194	31	Beta activity	20.8	1	1			NoC
194	31	Cesium-137	0.57	2	2	0.49	0.0267	Yes
194	31	Cobalt-60	0.00458	1	1		0.00547	NoA
194	31	Neptunium-237	0.00681	2	2	0.1	0.0839	NoAB
194	31	Plutonium-238	0.006	2	2	0.073	3.21	NoAB
194	31	Plutonium-239/240	0.012	2	2	0.025	3.15	NoAB
194	31	Technetium-99	0.494	2	2	2.5	101	NoAB
194	31	Thorium-228	0.87	2	2	1.6		NoB
194	31	Thorium-230	1	2	2	1.5	4.1	NoAB
194	31	Thorium-232	0.82	2	2	1.5		NoB
194	31	Uranium-234	1.29	1	1	1.2	5.47	NoA
194	31	Uranium-235	0.09	2	2	0.06	0.122	NoA
194	31	Uranium-238	1.72	1	1	1.2	0.517	Yes
194	4	Aluminum	5090	1	1	13000	4410	NoB
194	4	Antimony	0.2	1	1	0.21	0.552	NoAB
194	4	Arsenic	10.54	24	5	12	0.238	NoB
194	4	Barium	63.5	1	1	200	140	NoAB
194	4	Beryllium	0.34	1	1	0.67	0.00567	NoB
194	4	Cadmium	0.18	1	1	0.21	0.811	NoAB
194	4	Calcium	4600	1	1	200000		NoB
194	4	Chromium	48.41	24	4	16	15.6	Yes
194	4	Cobalt	4.8	1	1	14	1.37	NoB
194	4	Copper	6.9	24	1	19	184	NoAB
194	4	Fluoranthene	0.13	1	1		109	NoA
194	4	Iron	17416.62	24	24	28000	3220	NoB
194	4	Lead	29.76	24	24	36	400	NoAB
194	4	Magnesium	702	1	1	7700		NoB
194	4	Manganese	427.75	24	24	1500	419	NoB
194	4	Mercury	8.92	24	2	0.2	0.213	Yes
194	4	Molybdenum	0.52	24	1		23	NoA
194	4	Nickel	91.72	24	5	21	10.4	Yes
194	4	Phenanthrene	0.099	1	1			NoC
194	4	Pyrene	0.094	1	1		81.2	NoA
194	4	Selenium	1	24	1	0.8	23	NoA
194	4	Silver	12.35	24	5	2.3	2.61	Yes
194	4	Sodium	196	1	1	320		NoB
194	4	Thallium	0.17	1	1	0.21	0.368	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	4	Total PAH	0.072955	1	1		0.0197	Yes
194	4	Uranium	6.4	24	2	4.9	13.8	NoA
194	4	Vanadium	14.7	1	1	38	0.0365	NoB
194	4	Zinc	169.07	24	24	65	1380	NoA
194	4	Alpha activity	41.1	1	1			NoC
194	4	Americium-241	0.0036	1	1		1.5	NoA
194	4	Beta activity	41.4	1	1			NoC
194	4	Cesium-137	0.348	1	1	0.49	0.0267	NoB
194	4	Neptunium-237	-0.0018	1	1	0.1	0.0839	NoAB
194	4	Plutonium-238	0.021	1	1	0.073	3.21	NoAB
194	4	Plutonium-239/240	0.024	1	1	0.025	3.15	NoAB
194	4	Technetium-99	0.33	1	1	2.5	101	NoAB
194	4	Thorium-228	0.778	1	1	1.6		NoB
194	4	Thorium-230	1	1	1	1.5	4.1	NoAB
194	4	Thorium-232	0.796	1	1	1.5		NoB
194	4	Uranium-234	1.11	1	1	1.2	5.47	NoAB
194	4	Uranium-235	0.068	1	1	0.06	0.122	NoA
194	4	Uranium-238	1.73	1	1	1.2	0.517	Yes
194	5	Aluminum	5380	1	1	13000	4410	NoB
194	5	Antimony	0.53	1	1	0.21	0.552	NoA
194	5	Arsenic	8.3	20	8	12	0.238	NoB
194	5	Barium	78.1	1	1	200	140	NoAB
194	5	Beryllium	0.38	1	1	0.67	0.00567	NoB
194	5	Cadmium	0.088	1	1	0.21	0.811	NoAB
194	5	Calcium	17700	1	1	200000		NoB
194	5	Chromium	45.8	20	6	16	15.6	Yes
194	5	Cobalt	3.7	1	1	14	1.37	NoB
194	5	Copper	33.01	20	5	19	184	NoA
194	5	Iron	16513.56	20	20	28000	3220	NoB
194	5	Lead	25.59	20	19	36	400	NoAB
194	5	Magnesium	931	1	1	7700		NoB
194	5	Manganese	567.68	20	20	1500	419	NoB
194	5	Mercury	8.69	20	2	0.2	0.213	Yes
194	5	Molybdenum	0.36	20	1		23	NoA
194	5	Nickel	75.64	20	3	21	10.4	Yes
194	5	Selenium	1.2	20	1	0.8	23	NoA
194	5	Silver	15.49	20	4	2.3	2.61	Yes
194	5	Sodium	51.7	1	1	320		NoB
194	5	Thallium	0.17	1	1	0.21	0.368	NoAB
194	5	Total PAH	0.0237	1	1		0.0197	Yes
194	5	Uranium	9.55	20	3	4.9	13.8	NoA
194	5	Vanadium	17.5	1	1	38	0.0365	NoB
194	5	Zinc	69.28	20	20	65	1380	NoA
194	5	Alpha activity	31.4	1	1			NoC
194	5	Americium-241	0.005	1	1		1.5	NoA
194	5	Beta activity	42.3	1	1			NoC
194	5	Cesium-137	0.183	1	1	0.49	0.0267	NoB
194	5	Neptunium-237	0.002	1	1	0.1	0.0839	NoAB
194	5	Plutonium-238	0.011	1	1	0.073	3.21	NoAB
194	5	Plutonium-239/240	0.0111	1	1	0.025	3.15	NoAB
194	5	Technetium-99	0.45	1	1	2.5	101	NoAB
194	5	Thorium-228	1.3	1	1	1.6		NoB
194	5	Thorium-230	1.27	1	1	1.5	4.1	NoAB
194	5	Thorium-232	1.14	1	1	1.5		NoB
194	5	Uranium-234	1.07	1	1	1.2	5.47	NoAB
194	5	Uranium-235	0.063	1	1	0.06	0.122	NoA
194	5	Uranium-238	1.38	1	1	1.2	0.517	Yes
194	6	Aluminum	10400	1	1	13000	4410	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	6	Antimony	0.28	1	1	0.21	0.552	NoA
194	6	Arsenic	7.82	8	2	12	0.238	NoB
194	6	Barium	115	1	1	200	140	NoAB
194	6	Beryllium	0.53	1	1	0.67	0.00567	NoB
194	6	Cadmium	0.034	1	1	0.21	0.811	NoAB
194	6	Calcium	2770	1	1	200000		NoB
194	6	Chromium	37.01	8	2	16	15.6	Yes
194	6	Cobalt	6.2	1	1	14	1.37	NoB
194	6	Copper	42.29	8	3	19	184	NoA
194	6	Iron	17838.96	8	8	28000	3220	NoB
194	6	Lead	25.32	8	8	36	400	NoAB
194	6	Magnesium	1200	1	1	7700		NoB
194	6	Manganese	2806.97	8	8	1500	419	Yes
194	6	Mercury	0.021	8	1	0.2	0.213	NoAB
194	6	Molybdenum	0.21	8	1		23	NoA
194	6	Nickel	80.6	8	3	21	10.4	Yes
194	6	Selenium	1.3	8	1	0.8	23	NoA
194	6	Silver	9.89	8	2	2.3	2.61	Yes
194	6	Sodium	49.2	1	1	320		NoB
194	6	Total PAH	0.009	1	1		0.0197	NoA
194	6	Uranium	3.97	8	1	4.9	13.8	NoAB
194	6	Vanadium	26.3	1	1	38	0.0365	NoB
194	6	Zinc	71.73	8	8	65	1380	NoA
194	6	Alpha activity	29.9	1	1			NoC
194	6	Americium-241	0.014	1	1		1.5	NoA
194	6	Beta activity	29.6	1	1			NoC
194	6	Cesium-137	0.259	1	1	0.49	0.0267	NoB
194	6	Neptunium-237	0.0003	1	1	0.1	0.0839	NoAB
194	6	Plutonium-238	0.0164	1	1	0.073	3.21	NoAB
194	6	Plutonium-239/240	0.0145	1	1	0.025	3.15	NoAB
194	6	Technetium-99	0.45	1	1	2.5	101	NoAB
194	6	Thorium-228	0.96	1	1	1.6		NoB
194	6	Thorium-230	1.14	1	1	1.5	4.1	NoAB
194	6	Thorium-232	1.04	1	1	1.5		NoB
194	6	Uranium-234	1.21	1	1	1.2	5.47	NoA
194	6	Uranium-235	0.06	1	1	0.06	0.122	NoA
194	6	Uranium-238	1.32	1	1	1.2	0.517	Yes
194	7	Aluminum	8690	1	1	13000	4410	NoB
194	7	Antimony	0.3	1	1	0.21	0.552	NoA
194	7	Arsenic	10.89	14	6	12	0.238	NoB
194	7	Barium	116	1	1	200	140	NoAB
194	7	Beryllium	0.43	1	1	0.67	0.00567	NoB
194	7	Cadmium	0.07	1	1	0.21	0.811	NoAB
194	7	Calcium	1560	1	1	200000		NoB
194	7	Chromium	53.2	14	5	16	15.6	Yes
194	7	Cobalt	9.5	1	1	14	1.37	NoB
194	7	Copper	22.31	14	2	19	184	NoA
194	7	Iron	14696.65	14	14	28000	3220	NoB
194	7	Lead	26.14	14	14	36	400	NoAB
194	7	Magnesium	1050	1	1	7700		NoB
194	7	Manganese	1410	14	14	1500	419	NoB
194	7	Mercury	0.0474	14	1	0.2	0.213	NoAB
194	7	Molybdenum	0.84	14	1		23	NoA
194	7	Nickel	77.14	14	2	21	10.4	Yes
194	7	Selenium	3.46	14	2	0.8	23	NoA
194	7	Silver	13.53	14	3	2.3	2.61	Yes
194	7	Sodium	37.5	1	1	320		NoB
194	7	Thallium	0.18	1	1	0.21	0.368	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	7	Uranium	2.69	14	1	4.9	13.8	NoAB
194	7	Vanadium	27.2	1	1	38	0.0365	NoB
194	7	Zinc	274.99	14	14	65	1380	NoA
194	7	Alpha activity	31.4	1	1			NoC
194	7	Americium-241	0.005	1	1		1.5	NoA
194	7	Beta activity	31.7	1	1			NoC
194	7	Cesium-137	0.125	1	1	0.49	0.0267	NoB
194	7	Neptunium-237	-0.0014	1	1	0.1	0.0839	NoAB
194	7	Plutonium-238	0.015	1	1	0.073	3.21	NoAB
194	7	Plutonium-239/240	0.01	1	1	0.025	3.15	NoAB
194	7	Technetium-99	0.22	1	1	2.5	101	NoAB
194	7	Thorium-228	0.74	1	1	1.6		NoB
194	7	Thorium-230	0.9	1	1	1.5	4.1	NoAB
194	7	Thorium-232	0.77	1	1	1.5		NoB
194	7	Uranium-234	0.85	1	1	1.2	5.47	NoAB
194	7	Uranium-235	0.038	1	1	0.06	0.122	NoAB
194	7	Uranium-238	0.9	1	1	1.2	0.517	NoB
194	8	Acenaphthene	0.043	1	1		117	NoA
194	8	Aluminum	6310	1	1	13000	4410	NoB
194	8	Anthracene	0.095	1	1		747	NoA
194	8	Antimony	0.46	1	1	0.21	0.552	NoA
194	8	Arsenic	9.29	9	5	12	0.238	NoB
194	8	Barium	79.6	1	1	200	140	NoAB
194	8	Benzo(ghi)perylene	0.17	1	1			NoC
194	8	Beryllium	0.46	1	1	0.67	0.00567	NoB
194	8	Bis(2-ethylhexyl)phthalate	15	1	1			NoC
194	8	Cadmium	0.094	1	1	0.21	0.811	NoAB
194	8	Calcium	2590	1	1	200000		NoB
194	8	Chromium	53.58	9	6	16	15.6	Yes
194	8	Cobalt	4.8	1	1	14	1.37	NoB
194	8	Copper	10.2	9	1	19	184	NoAB
194	8	Di-n-butyl phthalate	0.82	1	1			NoC
194	8	Di-n-octylphthalate	0.054	1	1			NoC
194	8	Fluoranthene	0.8	1	1		109	NoA
194	8	Fluorene	0.056	1	1		91.5	NoA
194	8	Iron	12500	9	9	28000	3220	NoB
194	8	Lead	20.5	9	9	36	400	NoAB
194	8	Magnesium	708	1	1	7700		NoB
194	8	Manganese	1822.56	9	9	1500	419	Yes
194	8	Mercury	0.0309	9	1	0.2	0.213	NoAB
194	8	Molybdenum	0.53	9	1		23	NoA
194	8	Nickel	7	9	1	21	10.4	NoAB
194	8	Phenanthrene	0.6	1	1			NoC
194	8	Pyrene	0.6	1	1		81.2	NoA
194	8	Selenium	1.2	9	1	0.8	23	NoA
194	8	Silver	0.057	9	1	2.3	2.61	NoAB
194	8	Sodium	31.2	1	1	320		NoB
194	8	Thallium	0.13	1	1	0.21	0.368	NoAB
194	8	Total PAH	0.48503	1	1		0.0197	Yes
194	8	Uranium	4.19	9	1	4.9	13.8	NoAB
194	8	Vanadium	25.1	1	1	38	0.0365	NoB
194	8	Zinc	130.64	9	9	65	1380	NoA
194	8	Alpha activity	27.7	1	1			NoC
194	8	Americium-241	0.005	1	1		1.5	NoA
194	8	Beta activity	29.6	1	1			NoC
194	8	Cesium-137	0.36	1	1	0.49	0.0267	NoB
194	8	Neptunium-237	0.023	1	1	0.1	0.0839	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	8	Plutonium-238	0.013	1	1	0.073	3.21	NoAB
194	8	Plutonium-239/240	0.011	1	1	0.025	3.15	NoAB
194	8	Technetium-99	0.5	1	1	2.5	101	NoAB
194	8	Thorium-228	0.75	1	1	1.6		NoB
194	8	Thorium-230	0.99	1	1	1.5	4.1	NoAB
194	8	Thorium-232	1	1	1	1.5		NoB
194	8	Uranium-234	1.1	1	1	1.2	5.47	NoAB
194	8	Uranium-235	0.086	1	1	0.06	0.122	NoA
194	8	Uranium-238	1.39	1	1	1.2	0.517	Yes
194	9	Aluminum	5660	1	1	13000	4410	NoB
194	9	Antimony	0.4	1	1	0.21	0.552	NoA
194	9	Arsenic	14	10	4	12	0.238	Yes
194	9	Barium	135	1	1	200	140	NoAB
194	9	Beryllium	0.64	1	1	0.67	0.00567	NoB
194	9	Cadmium	0.11	1	1	0.21	0.811	NoAB
194	9	Calcium	1320	1	1	200000		NoB
194	9	Chromium	51.65	10	5	16	15.6	Yes
194	9	Cobalt	12.8	1	1	14	1.37	NoB
194	9	Copper	12.8	10	1	19	184	NoAB
194	9	Iron	21000	10	10	28000	3220	NoB
194	9	Lead	53.16	10	10	36	400	NoA
194	9	Magnesium	678	1	1	7700		NoB
194	9	Manganese	1080	10	10	1500	419	NoB
194	9	Mercury	0.0212	10	1	0.2	0.213	NoAB
194	9	Molybdenum	1.8	10	1		23	NoA
194	9	Nickel	9.4	10	1	21	10.4	NoAB
194	9	Selenium	1.4	10	1	0.8	23	NoA
194	9	Silver	0.033	10	1	2.3	2.61	NoAB
194	9	Sodium	33	1	1	320		NoB
194	9	Thallium	0.16	1	1	0.21	0.368	NoAB
194	9	Total PAH	0.0151	1	1		0.0197	NoA
194	9	Uranium	9.89	10	2	4.9	13.8	NoA
194	9	Vanadium	33.6	1	1	38	0.0365	NoB
194	9	Zinc	211.57	10	10	65	1380	NoA
194	9	Alpha activity	30.4	1	1			NoC
194	9	Americium-241	0.0052	1	1		1.5	NoA
194	9	Beta activity	34.6	1	1			NoC
194	9	Cesium-137	0.26	1	1	0.49	0.0267	NoB
194	9	Neptunium-237	0.0012	1	1	0.1	0.0839	NoAB
194	9	Plutonium-238	0.014	1	1	0.073	3.21	NoAB
194	9	Plutonium-239/240	0.014	1	1	0.025	3.15	NoAB
194	9	Technetium-99	0.2	1	1	2.5	101	NoAB
194	9	Thorium-228	1.08	1	1	1.6		NoB
194	9	Thorium-230	1.06	1	1	1.5	4.1	NoAB
194	9	Thorium-232	1.01	1	1	1.5		NoB
194	9	Uranium-234	0.87	1	1	1.2	5.47	NoAB
194	9	Uranium-235	0.047	1	1	0.06	0.122	NoAB
194	9	Uranium-238	1.1	1	1	1.2	0.517	NoB
195	1	Aluminum	9020	1	1	13000	4410	NoB
195	1	Antimony	0.15	1	1	0.21	0.552	NoAB
195	1	Arsenic	6.1	10	2	12	0.238	NoB
195	1	Barium	93.3	1	1	200	140	NoAB
195	1	Beryllium	0.49	1	1	0.67	0.00567	NoB
195	1	Cadmium	0.13	1	1	0.21	0.811	NoAB
195	1	Calcium	6880	1	1	200000		NoB
195	1	Chromium	63.27	10	3	16	15.6	Yes
195	1	Cobalt	8.4	1	1	14	1.37	NoB
195	1	Copper	30.72	10	2	19	184	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	1	Iron	21482.34	10	10	28000	3220	NoB
195	1	Lead	20.64	10	10	36	400	NoAB
195	1	Magnesium	1470	1	1	7700		NoB
195	1	Manganese	480	10	10	1500	419	NoB
195	1	Mercury	0.0294	10	1	0.2	0.213	NoAB
195	1	Molybdenum	0.55	10	1		23	NoA
195	1	Nickel	70.2	10	3	21	10.4	Yes
195	1	Selenium	1.3	10	1	0.8	23	NoA
195	1	Silver	9.37	10	2	2.3	2.61	Yes
195	1	Sodium	33.5	1	1	320		NoB
195	1	Thallium	0.11	1	1	0.21	0.368	NoAB
195	1	Total PAH	0.0071	1	1		0.0197	NoA
195	1	Uranium	3.13	10	1	4.9	13.8	NoAB
195	1	Vanadium	26	1	1	38	0.0365	NoB
195	1	Zinc	41.06	10	10	65	1380	NoAB
195	1	Alpha activity	34.2	1	1			NoC
195	1	Americium-241	0.0017	1	1		1.5	NoA
195	1	Beta activity	34.2	1	1			NoC
195	1	Cesium-137	0.44	1	1	0.49	0.0267	NoB
195	1	Neptunium-237	-0.0042	1	1	0.1	0.0839	NoAB
195	1	Plutonium-238	0.011	1	1	0.073	3.21	NoAB
195	1	Plutonium-239/240	0.016	1	1	0.025	3.15	NoAB
195	1	Technetium-99	0.21	1	1	2.5	101	NoAB
195	1	Thorium-228	0.87	1	1	1.6		NoB
195	1	Thorium-230	0.86	1	1	1.5	4.1	NoAB
195	1	Thorium-232	0.81	1	1	1.5		NoB
195	1	Uranium-234	0.94	1	1	1.2	5.47	NoAB
195	1	Uranium-235	0.044	1	1	0.06	0.122	NoAB
195	1	Uranium-238	1.04	1	1	1.2	0.517	NoB
195	10	Aluminum	4890	1	1	13000	4410	NoB
195	10	Antimony	0.24	1	1	0.21	0.552	NoA
195	10	Arsenic	9.83	12	6	12	0.238	NoB
195	10	Barium	62.6	1	1	200	140	NoAB
195	10	Beryllium	0.49	1	1	0.67	0.00567	NoB
195	10	Cadmium	0.04	1	1	0.21	0.811	NoAB
195	10	Calcium	7400	1	1	200000		NoB
195	10	Chromium	45.07	12	7	16	15.6	Yes
195	10	Cobalt	3	1	1	14	1.37	NoB
195	10	Copper	29.72	12	3	19	184	NoA
195	10	Iron	15619.06	12	12	28000	3220	NoB
195	10	Lead	34.21	12	10	36	400	NoAB
195	10	Magnesium	755	1	1	7700		NoB
195	10	Manganese	892.32	12	11	1500	419	NoB
195	10	Mercury	0.0248	12	1	0.2	0.213	NoAB
195	10	Molybdenum	0.4	12	1		23	NoA
195	10	Nickel	74.02	12	2	21	10.4	Yes
195	10	Selenium	0.1	12	1	0.8	23	NoAB
195	10	Silver	13.11	12	2	2.3	2.61	Yes
195	10	Sodium	38.7	1	1	320		NoB
195	10	Thallium	0.36	1	1	0.21	0.368	NoA
195	10	Total PAH	0.0056	1	1		0.0197	NoA
195	10	Uranium	2.87	12	1	4.9	13.8	NoAB
195	10	Vanadium	15	1	1	38	0.0365	NoB
195	10	Zinc	42.22	12	12	65	1380	NoAB
195	10	Alpha activity	26.5	1	1			NoC
195	10	Americium-241	0.0083	1	1		1.5	NoA
195	10	Beta activity	27.2	1	1			NoC
195	10	Cesium-137	0.275	1	1	0.49	0.0267	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	10	Neptunium-237	0.001	1	1	0.1	0.0839	NoAB
195	10	Plutonium-238	0.017	1	1	0.073	3.21	NoAB
195	10	Plutonium-239/240	0.019	1	1	0.025	3.15	NoAB
195	10	Technetium-99	0.45	1	1	2.5	101	NoAB
195	10	Thorium-228	0.81	1	1	1.6		NoB
195	10	Thorium-230	0.92	1	1	1.5	4.1	NoAB
195	10	Thorium-232	0.9	1	1	1.5		NoB
195	10	Uranium-234	0.81	1	1	1.2	5.47	NoAB
195	10	Uranium-235	0.039	1	1	0.06	0.122	NoAB
195	10	Uranium-238	0.96	1	1	1.2	0.517	NoB
195	11	Aluminum	28100	1	1	13000	4410	Yes
195	11	Antimony	0.1	1	1	0.21	0.552	NoAB
195	11	Arsenic	24.6	12	5	12	0.238	Yes
195	11	Barium	453	1	1	200	140	Yes
195	11	Beryllium	0.11	1	1	0.67	0.00567	NoB
195	11	Cadmium	0.32	1	1	0.21	0.811	NoA
195	11	Calcium	3020	1	1	200000		NoB
195	11	Chromium	50.5	12	7	16	15.6	Yes
195	11	Cobalt	27.7	1	1	14	1.37	Yes
195	11	Copper	44.6	12	1	19	184	NoA
195	11	Iron	46000	12	12	28000	3220	Yes
195	11	Lead	16.75	12	12	36	400	NoAB
195	11	Magnesium	4000	1	1	7700		NoB
195	11	Manganese	1270	12	12	1500	419	NoB
195	11	Mercury	0.03	12	1	0.2	0.213	NoAB
195	11	Molybdenum	2.3	12	1		23	NoA
195	11	Nickel	73.09	12	2	21	10.4	Yes
195	11	Selenium	0.83	12	1	0.8	23	NoA
195	11	Silver	0.24	12	1	2.3	2.61	NoAB
195	11	Sodium	108	1	1	320		NoB
195	11	Thallium	0.66	1	1	0.21	0.368	Yes
195	11	Uranium	8.4	12	1	4.9	13.8	NoA
195	11	Vanadium	79.7	1	1	38	0.0365	Yes
195	11	Zinc	41.8	12	12	65	1380	NoAB
195	11	Alpha activity	22.5	1	1			NoC
195	11	Americium-241	-0.0009	1	1		1.5	NoA
195	11	Beta activity	26.2	1	1			NoC
195	11	Cesium-137	0.325	1	1	0.49	0.0267	NoB
195	11	Neptunium-237	0.0003	1	1	0.1	0.0839	NoAB
195	11	Plutonium-238	0.02	1	1	0.073	3.21	NoAB
195	11	Plutonium-239/240	0.024	1	1	0.025	3.15	NoAB
195	11	Technetium-99	0.37	1	1	2.5	101	NoAB
195	11	Thorium-228	0.86	1	1	1.6		NoB
195	11	Thorium-230	0.94	1	1	1.5	4.1	NoAB
195	11	Thorium-232	0.89	1	1	1.5		NoB
195	11	Uranium-234	0.79	1	1	1.2	5.47	NoAB
195	11	Uranium-235	0.041	1	1	0.06	0.122	NoAB
195	11	Uranium-238	1.08	1	1	1.2	0.517	NoB
195	12	Aluminum	8450	1	1	13000	4410	NoB
195	12	Antimony	0.51	1	1	0.21	0.552	NoA
195	12	Arsenic	11.5	15	1	12	0.238	NoB
195	12	Barium	128	1	1	200	140	NoAB
195	12	Beryllium	0.75	1	1	0.67	0.00567	Yes
195	12	Cadmium	0.098	1	1	0.21	0.811	NoAB
195	12	Calcium	3000	1	1	200000		NoB
195	12	Chromium	74.38	15	9	16	15.6	Yes
195	12	Cobalt	9.3	1	1	14	1.37	NoB
195	12	Copper	23.24	15	2	19	184	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	12	Iron	20800	15	15	28000	3220	NoB
195	12	Lead	41.69	15	15	36	400	NoA
195	12	Magnesium	1280	1	1	7700		NoB
195	12	Manganese	913	15	15	1500	419	NoB
195	12	Mercury	0.0237	15	1	0.2	0.213	NoAB
195	12	Molybdenum	0.86	15	1		23	NoA
195	12	Nickel	68.97	15	3	21	10.4	Yes
195	12	Selenium	1.7	15	1	0.8	23	NoA
195	12	Silver	0.035	15	1	2.3	2.61	NoAB
195	12	Sodium	59.3	1	1	320		NoB
195	12	Thallium	0.12	1	1	0.21	0.368	NoAB
195	12	Total PAH	0.017	1	1		0.0197	NoA
195	12	Uranium	3.4	15	1	4.9	13.8	NoAB
195	12	Vanadium	37.9	1	1	38	0.0365	NoB
195	12	Zinc	57.56	15	15	65	1380	NoAB
195	12	Alpha activity	26.7	1	1			NoC
195	12	Americium-241	0.006	1	1		1.5	NoA
195	12	Beta activity	29.9	1	1			NoC
195	12	Cesium-137	0.216	1	1	0.49	0.0267	NoB
195	12	Neptunium-237	-0.0042	1	1	0.1	0.0839	NoAB
195	12	Plutonium-238	0.004	1	1	0.073	3.21	NoAB
195	12	Plutonium-239/240	0.0136	1	1	0.025	3.15	NoAB
195	12	Technetium-99	-0.04	1	1	2.5	101	NoAB
195	12	Thorium-228	1.09	1	1	1.6		NoB
195	12	Thorium-230	1.06	1	1	1.5	4.1	NoAB
195	12	Thorium-232	0.92	1	1	1.5		NoB
195	12	Uranium-234	0.92	1	1	1.2	5.47	NoAB
195	12	Uranium-235	0.074	1	1	0.06	0.122	NoA
195	12	Uranium-238	1.13	1	1	1.2	0.517	NoB
195	13	Aluminum	8560	1	1	13000	4410	NoB
195	13	Antimony	0.096	1	1	0.21	0.552	NoAB
195	13	Arsenic	8.73	14	5	12	0.238	NoB
195	13	Barium	97.8	1	1	200	140	NoAB
195	13	Beryllium	0.2	1	1	0.67	0.00567	NoB
195	13	Bis(2-ethylhexyl)phthalate	0.11	1	1			NoC
195	13	Cadmium	0.072	1	1	0.21	0.811	NoAB
195	13	Calcium	6960	1	1	200000		NoB
195	13	Chromium	65.51	14	6	16	15.6	Yes
195	13	Cobalt	6.7	1	1	14	1.37	NoB
195	13	Copper	9	14	1	19	184	NoAB
195	13	Iron	13900	14	14	28000	3220	NoB
195	13	Lead	15.5	14	11	36	400	NoAB
195	13	Magnesium	1290	1	1	7700		NoB
195	13	Manganese	429	14	14	1500	419	NoB
195	13	Mercury	0.0273	14	1	0.2	0.213	NoAB
195	13	Molybdenum	0.62	14	1		23	NoA
195	13	Nickel	73.51	14	2	21	10.4	Yes
195	13	Selenium	0.15	14	1	0.8	23	NoAB
195	13	Silver	0.052	14	1	2.3	2.61	NoAB
195	13	Sodium	42.5	1	1	320		NoB
195	13	Thallium	0.14	1	1	0.21	0.368	NoAB
195	13	Uranium	2.54	14	1	4.9	13.8	NoAB
195	13	Vanadium	30.4	1	1	38	0.0365	NoB
195	13	Zinc	37.67	14	14	65	1380	NoAB
195	13	Alpha activity	19.7	1	1			NoC
195	13	Americium-241	0.0071	1	1		1.5	NoA
195	13	Beta activity	23.6	1	1			NoC

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	13	Cesium-137	0.197	1	1	0.49	0.0267	NoB
195	13	Neptunium-237	0.012	1	1	0.1	0.0839	NoAB
195	13	Plutonium-238	0.014	1	1	0.073	3.21	NoAB
195	13	Plutonium-239/240	-0.0014	1	1	0.025	3.15	NoAB
195	13	Technetium-99	0.42	1	1	2.5	101	NoAB
195	13	Thorium-228	0.88	1	1	1.6		NoB
195	13	Thorium-230	0.95	1	1	1.5	4.1	NoAB
195	13	Thorium-232	0.83	1	1	1.5		NoB
195	13	Uranium-234	0.711	1	1	1.2	5.47	NoAB
195	13	Uranium-235	0.054	1	1	0.06	0.122	NoAB
195	13	Uranium-238	0.84	1	1	1.2	0.517	NoB
195	14	Aluminum	8360	1	1	13000	4410	NoB
195	14	Antimony	0.099	1	1	0.21	0.552	NoAB
195	14	Arsenic	9.22	14	5	12	0.238	NoB
195	14	Barium	109	1	1	200	140	NoAB
195	14	Beryllium	0.31	1	1	0.67	0.00567	NoB
195	14	Cadmium	0.053	1	1	0.21	0.811	NoAB
195	14	Calcium	2630	1	1	200000		NoB
195	14	Chromium	59.44	14	6	16	15.6	Yes
195	14	Cobalt	7.3	1	1	14	1.37	NoB
195	14	Copper	9.8	14	1	19	184	NoAB
195	14	Iron	16200	14	14	28000	3220	NoB
195	14	Lead	23.39	14	9	36	400	NoAB
195	14	Magnesium	1160	1	1	7700		NoB
195	14	Manganese	581	14	14	1500	419	NoB
195	14	Mercury	0.0324	14	1	0.2	0.213	NoAB
195	14	Molybdenum	0.76	14	1		23	NoA
195	14	Nickel	82.18	14	4	21	10.4	Yes
195	14	Selenium	0.3	14	1	0.8	23	NoAB
195	14	Silver	0.054	14	1	2.3	2.61	NoAB
195	14	Thallium	0.23	1	1	0.21	0.368	NoA
195	14	Uranium	8.56	14	2	4.9	13.8	NoA
195	14	Vanadium	35.5	1	1	38	0.0365	NoB
195	14	Zinc	41.18	14	14	65	1380	NoAB
195	14	Alpha activity	23.3	1	1			NoC
195	14	Americium-241	0.0126	1	1		1.5	NoA
195	14	Beta activity	28.5	1	1			NoC
195	14	Cesium-137	0.249	1	1	0.49	0.0267	NoB
195	14	Neptunium-237	0.01	1	1	0.1	0.0839	NoAB
195	14	Plutonium-238	0.025	1	1	0.073	3.21	NoAB
195	14	Plutonium-239/240	0.025	1	1	0.025	3.15	NoA
195	14	Technetium-99	0.21	1	1	2.5	101	NoAB
195	14	Thorium-228	0.87	1	1	1.6		NoB
195	14	Thorium-230	0.85	1	1	1.5	4.1	NoAB
195	14	Thorium-232	0.9	1	1	1.5		NoB
195	14	Uranium-234	0.677	1	1	1.2	5.47	NoAB
195	14	Uranium-235	0.038	1	1	0.06	0.122	NoAB
195	14	Uranium-238	0.92	1	1	1.2	0.517	NoB
195	15	Aluminum	5050	1	1	13000	4410	NoB
195	15	Antimony	0.26	1	1	0.21	0.552	NoA
195	15	Arsenic	9.15	14	4	12	0.238	NoB
195	15	Barium	80.8	1	1	200	140	NoAB
195	15	Beryllium	0.18	1	1	0.67	0.00567	NoB
195	15	Cadmium	0.064	1	1	0.21	0.811	NoAB
195	15	Calcium	8430	1	1	200000		NoB
195	15	Chromium	48.17	14	7	16	15.6	Yes
195	15	Cobalt	3.9	1	1	14	1.37	NoB
195	15	Copper	7.9	14	1	19	184	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	15	Iron	13363.39	14	14	28000	3220	NoB
195	15	Lead	17.96	14	13	36	400	NoAB
195	15	Magnesium	1100	1	1	7700		NoB
195	15	Manganese	485.3	14	14	1500	419	NoB
195	15	Mercury	0.0354	14	1	0.2	0.213	NoAB
195	15	Molybdenum	0.34	14	1		23	NoA
195	15	Nickel	6.7	14	1	21	10.4	NoAB
195	15	Selenium	0.27	14	1	0.8	23	NoAB
195	15	Silver	0.041	14	1	2.3	2.61	NoAB
195	15	Sodium	26.4	1	1	320		NoB
195	15	Uranium	2.68	14	1	4.9	13.8	NoAB
195	15	Vanadium	15.7	1	1	38	0.0365	NoB
195	15	Zinc	49.62	14	14	65	1380	NoAB
195	15	Alpha activity	28.5	1	1			NoC
195	15	Americium-241	0.0063	1	1		1.5	NoA
195	15	Beta activity	27	1	1			NoC
195	15	Cesium-137	0.358	1	1	0.49	0.0267	NoB
195	15	Neptunium-237	-0.0053	1	1	0.1	0.0839	NoAB
195	15	Plutonium-238	0.0064	1	1	0.073	3.21	NoAB
195	15	Plutonium-239/240	0.018	1	1	0.025	3.15	NoAB
195	15	Technetium-99	-0.04	1	1	2.5	101	NoAB
195	15	Thorium-228	0.84	1	1	1.6		NoB
195	15	Thorium-230	0.94	1	1	1.5	4.1	NoAB
195	15	Thorium-232	0.79	1	1	1.5		NoB
195	15	Uranium-234	0.754	1	1	1.2	5.47	NoAB
195	15	Uranium-235	0.044	1	1	0.06	0.122	NoAB
195	15	Uranium-238	0.89	1	1	1.2	0.517	NoB
195	16	Aluminum	4690	1	1	13000	4410	NoB
195	16	Antimony	0.22	1	1	0.21	0.552	NoA
195	16	Arsenic	7.22	17	2	12	0.238	NoB
195	16	Barium	128	1	1	200	140	NoAB
195	16	Beryllium	0.13	1	1	0.67	0.00567	NoB
195	16	Cadmium	0.072	1	1	0.21	0.811	NoAB
195	16	Calcium	3610	1	1	200000		NoB
195	16	Chromium	44.46	17	4	16	15.6	Yes
195	16	Cobalt	6.3	1	1	14	1.37	NoB
195	16	Copper	8.1	17	1	19	184	NoAB
195	16	Iron	10568.89	17	17	28000	3220	NoB
195	16	Lead	14.64	17	14	36	400	NoAB
195	16	Magnesium	723	1	1	7700		NoB
195	16	Manganese	875	17	17	1500	419	NoB
195	16	Mercury	0.0361	17	1	0.2	0.213	NoAB
195	16	Molybdenum	0.52	17	1		23	NoA
195	16	Nickel	85.7	17	4	21	10.4	Yes
195	16	Selenium	0.19	17	1	0.8	23	NoAB
195	16	Silver	0.044	17	1	2.3	2.61	NoAB
195	16	Sodium	35.6	1	1	320		NoB
195	16	Uranium	2.55	18	2	4.9	13.8	NoAB
195	16	Vanadium	16.3	1	1	38	0.0365	NoB
195	16	Zinc	33.1	17	17	65	1380	NoAB
195	16	Alpha activity	30	2	2			NoC
195	16	Americium-241	0.012	2	2		1.5	NoA
195	16	Beta activity	24.6	2	2			NoC
195	16	Cesium-137	0.44	2	2	0.49	0.0267	NoB
195	16	Neptunium-237	0.01	2	2	0.1	0.0839	NoAB
195	16	Plutonium-238	0.0066	2	2	0.073	3.21	NoAB
195	16	Plutonium-239/240	0.025	2	2	0.025	3.15	NoA
195	16	Technetium-99	0.4	2	2	2.5	101	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	16	Thorium-228	0.87	2	2	1.6		NoB
195	16	Thorium-230	0.92	2	2	1.5	4.1	NoAB
195	16	Thorium-232	0.93	2	2	1.5		NoB
195	16	Uranium-234	0.79	2	2	1.2	5.47	NoAB
195	16	Uranium-235	0.054	2	2	0.06	0.122	NoAB
195	16	Uranium-238	0.85	2	2	1.2	0.517	NoB
195	17	Aluminum	6290	1	1	13000	4410	NoB
195	17	Antimony	0.38	1	1	0.21	0.552	NoA
195	17	Arsenic	9.36	24	4	12	0.238	NoB
195	17	Barium	84.8	1	1	200	140	NoAB
195	17	Benzo(ghi)perylene	0.13	1	1			NoC
195	17	Beryllium	0.42	1	1	0.67	0.00567	NoB
195	17	Bis(2-ethylhexyl)phthalate	0.087	1	1			NoC
195	17	Cadmium	0.2	1	1	0.21	0.811	NoAB
195	17	Calcium	2430	1	1	200000		NoB
195	17	Chromium	120.84	24	9	16	15.6	Yes
195	17	Cobalt	7.4	1	1	14	1.37	NoB
195	17	Copper	25.48	24	5	19	184	NoA
195	17	Fluoranthene	0.39	1	1		109	NoA
195	17	Iron	14149.26	24	24	28000	3220	NoB
195	17	Lead	33.5	24	23	36	400	NoAB
195	17	Magnesium	840	1	1	7700		NoB
195	17	Manganese	1417.71	24	24	1500	419	NoB
195	17	Mercury	0.417	24	1	0.2	0.213	Yes
195	17	Molybdenum	0.99	24	1		23	NoA
195	17	Nickel	59.34	24	3	21	10.4	Yes
195	17	PCB, Total	0.74	24	1		0.0648	Yes
195	17	Phenanthrene	0.23	1	1			NoC
195	17	Pyrene	0.33	1	1		81.2	NoA
195	17	Selenium	1.1	24	1	0.8	23	NoA
195	17	Silver	10.14	24	2	2.3	2.61	Yes
195	17	Sodium	23.7	1	1	320		NoB
195	17	Thallium	0.54	1	1	0.21	0.368	Yes
195	17	Total PAH	0.3159	1	1		0.0197	Yes
195	17	Uranium	11.6	24	4	4.9	13.8	NoA
195	17	Vanadium	20.8	1	1	38	0.0365	NoB
195	17	Zinc	143	24	24	65	1380	NoA
195	17	Alpha activity	30.4	1	1			NoC
195	17	Americium-241	0.04	1	1		1.5	NoA
195	17	Beta activity	30.5	1	1			NoC
195	17	Cesium-137	0.122	1	1	0.49	0.0267	NoB
195	17	Neptunium-237	0.04	1	1	0.1	0.0839	NoAB
195	17	Plutonium-238	0.013	1	1	0.073	3.21	NoAB
195	17	Plutonium-239/240	0.166	1	1	0.025	3.15	NoA
195	17	Technetium-99	2.43	1	1	2.5	101	NoAB
195	17	Thorium-228	0.763	1	1	1.6		NoB
195	17	Thorium-230	1.17	1	1	1.5	4.1	NoAB
195	17	Thorium-232	0.785	1	1	1.5		NoB
195	17	Uranium-234	1.7	1	1	1.2	5.47	NoA
195	17	Uranium-235	0.132	1	1	0.06	0.122	Yes
195	17	Uranium-238	2.48	1	1	1.2	0.517	Yes
195	2	Aluminum	5730	1	1	13000	4410	NoB
195	2	Antimony	0.31	1	1	0.21	0.552	NoA
195	2	Arsenic	7.6	13	4	12	0.238	NoB
195	2	Barium	95.3	1	1	200	140	NoAB
195	2	Beryllium	0.22	1	1	0.67	0.00567	NoB
195	2	Cadmium	0.049	1	1	0.21	0.811	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	2	Calcium	4460	1	1	200000		NoB
195	2	Chromium	45.2	13	7	16	15.6	Yes
195	2	Cobalt	4.7	1	1	14	1.37	NoB
195	2	Copper	24.65	13	2	19	184	NoA
195	2	Iron	10766.96	13	13	28000	3220	NoB
195	2	Lead	18.1	13	13	36	400	NoAB
195	2	Magnesium	776	1	1	7700		NoB
195	2	Manganese	289	13	13	1500	419	NoAB
195	2	Mercury	0.0319	13	1	0.2	0.213	NoAB
195	2	Molybdenum	5.6	13	2		23	NoA
195	2	Nickel	7.2	13	1	21	10.4	NoAB
195	2	Selenium	0.17	13	1	0.8	23	NoAB
195	2	Silver	9.48	13	2	2.3	2.61	Yes
195	2	Sodium	27.8	1	1	320		NoB
195	2	Total PAH	0.0268	1	1		0.0197	Yes
195	2	Uranium	2.72	13	1	4.9	13.8	NoAB
195	2	Vanadium	19.3	1	1	38	0.0365	NoB
195	2	Zinc	39.51	13	13	65	1380	NoAB
195	2	Alpha activity	24.2	1	1			NoC
195	2	Americium-241	0.0109	1	1		1.5	NoA
195	2	Beta activity	25.3	1	1			NoC
195	2	Cesium-137	0.26	1	1	0.49	0.0267	NoB
195	2	Neptunium-237	-0.0013	1	1	0.1	0.0839	NoAB
195	2	Plutonium-238	0.0103	1	1	0.073	3.21	NoAB
195	2	Plutonium-239/240	0.0134	1	1	0.025	3.15	NoAB
195	2	Technetium-99	0.22	1	1	2.5	101	NoAB
195	2	Thorium-228	0.93	1	1	1.6		NoB
195	2	Thorium-230	0.87	1	1	1.5	4.1	NoAB
195	2	Thorium-232	0.92	1	1	1.5		NoB
195	2	Uranium-234	0.735	1	1	1.2	5.47	NoAB
195	2	Uranium-235	0.044	1	1	0.06	0.122	NoAB
195	2	Uranium-238	0.91	1	1	1.2	0.517	NoB
195	3	Aluminum	8990	1	1	13000	4410	NoB
195	3	Antimony	0.26	1	1	0.21	0.552	NoA
195	3	Arsenic	11.08	12	4	12	0.238	NoB
195	3	Barium	92.1	1	1	200	140	NoAB
195	3	Beryllium	0.33	1	1	0.67	0.00567	NoB
195	3	Cadmium	0.041	1	1	0.21	0.811	NoAB
195	3	Calcium	4390	1	1	200000		NoB
195	3	Chromium	50.3	12	6	16	15.6	Yes
195	3	Cobalt	6.5	1	1	14	1.37	NoB
195	3	Copper	21.7	12	1	19	184	NoA
195	3	Fluoranthene	0.077	1	1		109	NoA
195	3	Iron	19200	12	12	28000	3220	NoB
195	3	Lead	14.95	12	10	36	400	NoAB
195	3	Magnesium	1330	1	1	7700		NoB
195	3	Manganese	371	12	12	1500	419	NoAB
195	3	Mercury	0.0313	12	1	0.2	0.213	NoAB
195	3	Molybdenum	0.8	12	1		23	NoA
195	3	Nickel	52.15	12	2	21	10.4	Yes
195	3	Pyrene	0.067	1	1		81.2	NoA
195	3	Selenium	0.15	12	1	0.8	23	NoAB
195	3	Silver	0.059	12	1	2.3	2.61	NoAB
195	3	Sodium	38.8	1	1	320		NoB
195	3	Total PAH	0.0406	1	1		0.0197	Yes
195	3	Uranium	3.04	12	1	4.9	13.8	NoAB
195	3	Vanadium	35.1	1	1	38	0.0365	NoB
195	3	Zinc	36.64	12	12	65	1380	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	3	Alpha activity	19.9	1	1			NoC
195	3	Americium-241	0.006	1	1		1.5	NoA
195	3	Beta activity	28.2	1	1			NoC
195	3	Cesium-137	0.27	1	1	0.49	0.0267	NoB
195	3	Neptunium-237	0.016	1	1	0.1	0.0839	NoAB
195	3	Plutonium-238	0.008	1	1	0.073	3.21	NoAB
195	3	Plutonium-239/240	0.0134	1	1	0.025	3.15	NoAB
195	3	Technetium-99	0.25	1	1	2.5	101	NoAB
195	3	Thorium-228	0.81	1	1	1.6		NoB
195	3	Thorium-230	0.81	1	1	1.5	4.1	NoAB
195	3	Thorium-232	0.82	1	1	1.5		NoB
195	3	Uranium-234	0.841	1	1	1.2	5.47	NoAB
195	3	Uranium-235	0.054	1	1	0.06	0.122	NoAB
195	3	Uranium-238	1.01	1	1	1.2	0.517	NoB
195	4	Aluminum	8560	1	1	13000	4410	NoB
195	4	Antimony	0.41	1	1	0.21	0.552	NoA
195	4	Arsenic	10.05	13	5	12	0.238	NoB
195	4	Barium	79.9	1	1	200	140	NoAB
195	4	Beryllium	0.46	1	1	0.67	0.00567	NoB
195	4	Cadmium	0.076	1	1	0.21	0.811	NoAB
195	4	Calcium	2970	1	1	200000		NoB
195	4	Chromium	52.9	13	7	16	15.6	Yes
195	4	Cobalt	4.8	1	1	14	1.37	NoB
195	4	Copper	9.1	13	1	19	184	NoAB
195	4	Iron	12700	13	13	28000	3220	NoB
195	4	Lead	18.19	13	12	36	400	NoAB
195	4	Magnesium	1140	1	1	7700		NoB
195	4	Manganese	266	13	12	1500	419	NoAB
195	4	Mercury	0.0263	13	1	0.2	0.213	NoAB
195	4	Molybdenum	0.45	13	1		23	NoA
195	4	Nickel	62.28	13	2	21	10.4	Yes
195	4	Selenium	1.3	13	1	0.8	23	NoA
195	4	Silver	0.036	13	1	2.3	2.61	NoAB
195	4	Sodium	28.2	1	1	320		NoB
195	4	Total PAH	0.011	1	1		0.0197	NoA
195	4	Uranium	3.14	13	1	4.9	13.8	NoAB
195	4	Vanadium	22.8	1	1	38	0.0365	NoB
195	4	Zinc	112.75	13	13	65	1380	NoA
195	4	Alpha activity	28.3	1	1			NoC
195	4	Americium-241	0.0088	1	1		1.5	NoA
195	4	Beta activity	34.9	1	1			NoC
195	4	Cesium-137	0.263	1	1	0.49	0.0267	NoB
195	4	Neptunium-237	-0.002	1	1	0.1	0.0839	NoAB
195	4	Plutonium-238	0.018	1	1	0.073	3.21	NoAB
195	4	Plutonium-239/240	0.019	1	1	0.025	3.15	NoAB
195	4	Technetium-99	0.008	1	1	2.5	101	NoAB
195	4	Thorium-228	0.87	1	1	1.6		NoB
195	4	Thorium-230	0.96	1	1	1.5	4.1	NoAB
195	4	Thorium-232	0.91	1	1	1.5		NoB
195	4	Uranium-234	0.84	1	1	1.2	5.47	NoAB
195	4	Uranium-235	0.02	1	1	0.06	0.122	NoAB
195	4	Uranium-238	1.05	1	1	1.2	0.517	NoB
195	5	Aluminum	8130	1	1	13000	4410	NoB
195	5	Antimony	0.41	2	2	0.21	0.552	NoA
195	5	Arsenic	8.8	12	4	12	0.238	NoB
195	5	Barium	92	1	1	200	140	NoAB
195	5	Beryllium	0.51	1	1	0.67	0.00567	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	5	Bis(2-ethylhexyl)phthalate	0.13	2	1			NoC
195	5	Cadmium	0.12	1	1	0.21	0.811	NoAB
195	5	Calcium	4580	1	1	200000		NoB
195	5	Chromium	57.41	12	7	16	15.6	Yes
195	5	Cobalt	6.5	1	1	14	1.37	NoB
195	5	Copper	9.9	12	1	19	184	NoAB
195	5	Fluoranthene	0.059	2	2		109	NoA
195	5	Iron	15600	12	12	28000	3220	NoB
195	5	Lead	17.47	12	9	36	400	NoAB
195	5	Magnesium	1310	1	1	7700		NoB
195	5	Manganese	409	12	12	1500	419	NoAB
195	5	Mercury	0.0153	12	1	0.2	0.213	NoAB
195	5	Molybdenum	0.72	12	1		23	NoA
195	5	Nickel	81.1	12	2	21	10.4	Yes
195	5	Phenanthrene	0.043	2	1			NoC
195	5	Pyrene	0.047	2	2		81.2	NoA
195	5	Selenium	1.3	12	1	0.8	23	NoA
195	5	Silver	0.032	12	1	2.3	2.61	NoAB
195	5	Sodium	21.9	1	1	320		NoB
195	5	Thallium	0.31	1	1	0.21	0.368	NoA
195	5	Total PAH	0.024	2	2		0.0197	Yes
195	5	Uranium	3.05	12	2	4.9	13.8	NoAB
195	5	Vanadium	26.9	1	1	38	0.0365	NoB
195	5	Zinc	48.2	12	12	65	1380	NoAB
195	5	Alpha activity	33.6	2	2			NoC
195	5	Americium-241	0.012	2	2		1.5	NoA
195	5	Beta activity	28.4	2	2			NoC
195	5	Cesium-137	0.341	2	2	0.49	0.0267	NoB
195	5	Neptunium-237	0.005	2	2	0.1	0.0839	NoAB
195	5	Plutonium-238	0.013	2	2	0.073	3.21	NoAB
195	5	Plutonium-239/240	0.02	2	2	0.025	3.15	NoAB
195	5	Technetium-99	-0.13	2	2	2.5	101	NoAB
195	5	Thorium-228	0.88	2	2	1.6		NoB
195	5	Thorium-230	0.93	2	2	1.5	4.1	NoAB
195	5	Thorium-232	0.88	2	2	1.5		NoB
195	5	Uranium-234	0.8	2	2	1.2	5.47	NoAB
195	5	Uranium-235	0.042	2	2	0.06	0.122	NoAB
195	5	Uranium-238	1.02	2	2	1.2	0.517	NoB
195	6	Aluminum	7800	1	1	13000	4410	NoB
195	6	Anthracene	0.052	1	1		747	NoA
195	6	Antimony	0.15	1	1	0.21	0.552	NoAB
195	6	Arsenic	8.94	12	3	12	0.238	NoB
195	6	Barium	80.8	1	1	200	140	NoAB
195	6	Benzo(ghi)perylene	0.11	1	1			NoC
195	6	Beryllium	0.48	1	1	0.67	0.00567	NoB
195	6	Cadmium	0.11	1	1	0.21	0.811	NoAB
195	6	Calcium	4560	1	1	200000		NoB
195	6	Chromium	44.54	12	8	16	15.6	Yes
195	6	Cobalt	6.1	1	1	14	1.37	NoB
195	6	Copper	10	12	1	19	184	NoAB
195	6	Fluoranthene	0.46	1	1		109	NoA
195	6	Iron	14900	12	12	28000	3220	NoB
195	6	Lead	18.23	12	12	36	400	NoAB
195	6	Magnesium	1200	1	1	7700		NoB
195	6	Manganese	305	12	12	1500	419	NoAB
195	6	Mercury	0.0365	12	1	0.2	0.213	NoAB
195	6	Molybdenum	0.52	12	1		23	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	6	Nickel	98.09	12	2	21	10.4	Yes
195	6	Phenanthrene	0.18	1	1			NoC
195	6	Pyrene	0.35	1	1		81.2	NoA
195	6	Selenium	1.2	12	1	0.8	23	NoA
195	6	Silver	0.033	12	1	2.3	2.61	NoAB
195	6	Sodium	21.5	1	1	320		NoB
195	6	Total PAH	0.2477	1	1		0.0197	Yes
195	6	Uranium	2.81	12	1	4.9	13.8	NoAB
195	6	Vanadium	24	1	1	38	0.0365	NoB
195	6	Zinc	41.17	12	12	65	1380	NoAB
195	6	Alpha activity	27.7	1	1			NoC
195	6	Americium-241	0.009	1	1		1.5	NoA
195	6	Beta activity	30.3	1	1			NoC
195	6	Cesium-137	0.298	1	1	0.49	0.0267	NoB
195	6	Neptunium-237	0.002	1	1	0.1	0.0839	NoAB
195	6	Plutonium-238	0.018	1	1	0.073	3.21	NoAB
195	6	Plutonium-239/240	0.0057	1	1	0.025	3.15	NoAB
195	6	Technetium-99	0.15	1	1	2.5	101	NoAB
195	6	Thorium-228	0.95	1	1	1.6		NoB
195	6	Thorium-230	0.96	1	1	1.5	4.1	NoAB
195	6	Thorium-232	0.94	1	1	1.5		NoB
195	6	Uranium-234	0.746	1	1	1.2	5.47	NoAB
195	6	Uranium-235	0.05	1	1	0.06	0.122	NoAB
195	6	Uranium-238	0.94	1	1	1.2	0.517	NoB
195	7	Aluminum	8900	1	1	13000	4410	NoB
195	7	Antimony	0.24	1	1	0.21	0.552	NoA
195	7	Arsenic	8.09	12	2	12	0.238	NoB
195	7	Barium	112	1	1	200	140	NoAB
195	7	Beryllium	0.52	1	1	0.67	0.00567	NoB
195	7	Cadmium	0.089	1	1	0.21	0.811	NoAB
195	7	Calcium	2780	1	1	200000		NoB
195	7	Chromium	49.26	12	7	16	15.6	Yes
195	7	Cobalt	7.3	1	1	14	1.37	NoB
195	7	Copper	11	12	1	19	184	NoAB
195	7	Iron	15500	12	12	28000	3220	NoB
195	7	Lead	18.22	12	11	36	400	NoAB
195	7	Magnesium	1150	1	1	7700		NoB
195	7	Manganese	688	12	12	1500	419	NoB
195	7	Mercury	0.0277	12	1	0.2	0.213	NoAB
195	7	Molybdenum	0.56	12	1		23	NoA
195	7	Nickel	11.5	12	1	21	10.4	NoB
195	7	Selenium	1.4	12	1	0.8	23	NoA
195	7	Silver	8.06	12	2	2.3	2.61	Yes
195	7	Sodium	25.5	1	1	320		NoB
195	7	Thallium	0.086	1	1	0.21	0.368	NoAB
195	7	Total PAH	0.014	1	1		0.0197	NoA
195	7	Uranium	2.96	12	1	4.9	13.8	NoAB
195	7	Vanadium	26.4	1	1	38	0.0365	NoB
195	7	Zinc	39.16	12	12	65	1380	NoAB
195	7	Alpha activity	31.7	1	1			NoC
195	7	Americium-241	0.014	1	1		1.5	NoA
195	7	Beta activity	31.3	1	1			NoC
195	7	Cesium-137	0.222	1	1	0.49	0.0267	NoB
195	7	Neptunium-237	-0.001	1	1	0.1	0.0839	NoAB
195	7	Plutonium-238	0.0053	1	1	0.073	3.21	NoAB
195	7	Plutonium-239/240	0.0118	1	1	0.025	3.15	NoAB
195	7	Technetium-99	0.06	1	1	2.5	101	NoAB
195	7	Thorium-228	0.89	1	1	1.6		NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	7	Thorium-230	0.85	1	1	1.5	4.1	NoAB
195	7	Thorium-232	0.92	1	1	1.5		NoB
195	7	Uranium-234	0.86	1	1	1.2	5.47	NoAB
195	7	Uranium-235	0.032	1	1	0.06	0.122	NoAB
195	7	Uranium-238	0.99	1	1	1.2	0.517	NoB
195	8	Aluminum	9770	1	1	13000	4410	NoB
195	8	Antimony	0.18	1	1	0.21	0.552	NoAB
195	8	Arsenic	13.8	12	3	12	0.238	Yes
195	8	Barium	153	1	1	200	140	NoB
195	8	Benzo(ghi)perylene	0.084	1	1			NoC
195	8	Beryllium	0.74	1	1	0.67	0.00567	Yes
195	8	Cadmium	0.14	1	1	0.21	0.811	NoAB
195	8	Calcium	3190	1	1	200000		NoB
195	8	Chromium	67.93	12	7	16	15.6	Yes
195	8	Cobalt	18.2	1	1	14	1.37	Yes
195	8	Copper	11.5	12	1	19	184	NoAB
195	8	Fluoranthene	0.4	1	1		109	NoA
195	8	Iron	24100	12	12	28000	3220	NoB
195	8	Lead	20	12	10	36	400	NoAB
195	8	Magnesium	1280	1	1	7700		NoB
195	8	Manganese	1180	12	12	1500	419	NoB
195	8	Mercury	0.0256	12	1	0.2	0.213	NoAB
195	8	Molybdenum	0.96	12	1		23	NoA
195	8	Nickel	81.74	12	2	21	10.4	Yes
195	8	Phenanthrene	0.15	1	1			NoC
195	8	Pyrene	0.33	1	1		81.2	NoA
195	8	Selenium	1.8	12	1	0.8	23	NoA
195	8	Silver	0.033	12	1	2.3	2.61	NoAB
195	8	Sodium	29.4	1	1	320		NoB
195	8	Thallium	0.091	1	1	0.21	0.368	NoAB
195	8	Total PAH	0.21558	1	1		0.0197	Yes
195	8	Uranium	3.13	12	1	4.9	13.8	NoAB
195	8	Vanadium	40.4	1	1	38	0.0365	Yes
195	8	Zinc	49.96	12	12	65	1380	NoAB
195	8	Alpha activity	21.2	1	1			NoC
195	8	Americium-241	0.012	1	1		1.5	NoA
195	8	Beta activity	37.3	1	1			NoC
195	8	Cesium-137	0.37	1	1	0.49	0.0267	NoB
195	8	Neptunium-237	0.016	1	1	0.1	0.0839	NoAB
195	8	Plutonium-238	0.0048	1	1	0.073	3.21	NoAB
195	8	Plutonium-239/240	0.0051	1	1	0.025	3.15	NoAB
195	8	Technetium-99	0.06	1	1	2.5	101	NoAB
195	8	Thorium-228	0.88	1	1	1.6		NoB
195	8	Thorium-230	1.03	1	1	1.5	4.1	NoAB
195	8	Thorium-232	0.92	1	1	1.5		NoB
195	8	Uranium-234	0.79	1	1	1.2	5.47	NoAB
195	8	Uranium-235	0.047	1	1	0.06	0.122	NoAB
195	8	Uranium-238	1.04	1	1	1.2	0.517	NoB
195	9	Aluminum	4940	1	1	13000	4410	NoB
195	9	Antimony	0.095	1	1	0.21	0.552	NoAB
195	9	Arsenic	10.13	10	3	12	0.238	NoB
195	9	Barium	79.9	1	1	200	140	NoAB
195	9	Beryllium	0.18	1	1	0.67	0.00567	NoB
195	9	Bis(2-ethylhexyl)phthalate	0.2	1	1			NoC
195	9	Cadmium	0.088	1	1	0.21	0.811	NoAB
195	9	Calcium	3720	1	1	200000		NoB
195	9	Chromium	60.8	10	7	16	15.6	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	9	Cobalt	4.7	1	1	14	1.37	NoB
195	9	Copper	8.7	10	1	19	184	NoAB
195	9	Iron	13448.67	10	10	28000	3220	NoB
195	9	Lead	18	10	9	36	400	NoAB
195	9	Magnesium	647	1	1	7700		NoB
195	9	Manganese	277.91	10	10	1500	419	NoAB
195	9	Mercury	0.0348	10	1	0.2	0.213	NoAB
195	9	Molybdenum	0.54	10	1		23	NoA
195	9	Nickel	79.27	10	2	21	10.4	Yes
195	9	Selenium	0.27	10	1	0.8	23	NoAB
195	9	Silver	0.045	10	1	2.3	2.61	NoAB
195	9	Sodium	21.3	1	1	320		NoB
195	9	Thallium	0.1	1	1	0.21	0.368	NoAB
195	9	Total PAH	0.0089	1	1		0.0197	NoA
195	9	Uranium	2.44	10	1	4.9	13.8	NoAB
195	9	Vanadium	18.5	1	1	38	0.0365	NoB
195	9	Zinc	38.8	10	10	65	1380	NoAB
195	9	Alpha activity	24.4	1	1			NoC
195	9	Americium-241	0.0023	1	1		1.5	NoA
195	9	Beta activity	26.6	1	1			NoC
195	9	Cesium-137	0.167	1	1	0.49	0.0267	NoB
195	9	Neptunium-237	0.004	1	1	0.1	0.0839	NoAB
195	9	Plutonium-238	0.01	1	1	0.073	3.21	NoAB
195	9	Plutonium-239/240	0.024	1	1	0.025	3.15	NoAB
195	9	Technetium-99	0.35	1	1	2.5	101	NoAB
195	9	Thorium-228	0.82	1	1	1.6		NoB
195	9	Thorium-230	0.92	1	1	1.5	4.1	NoAB
195	9	Thorium-232	0.83	1	1	1.5		NoB
195	9	Uranium-234	0.726	1	1	1.2	5.47	NoAB
195	9	Uranium-235	0.038	1	1	0.06	0.122	NoAB
195	9	Uranium-238	0.81	1	1	1.2	0.517	NoB
196	1	Aluminum	10900	1	1	13000	4410	NoB
196	1	Antimony	0.59	1	1	0.21	0.552	Yes
196	1	Arsenic	5.1	1	1	12	0.238	NoB
196	1	Barium	143	1	1	200	140	NoB
196	1	Beryllium	0.4	1	1	0.67	0.00567	NoB
196	1	Bis(2-ethylhexyl)phthalate	0.12	1	1			NoC
196	1	Cadmium	0.4	1	1	0.21	0.811	NoA
196	1	Calcium	212000	1	1	200000		NoE
196	1	Chromium	19.6	1	1	16	15.6	Yes
196	1	Cobalt	8.3	1	1	14	1.37	NoB
196	1	Copper	12	1	1	19	184	NoAB
196	1	Iron	11200	1	1	28000	3220	NoB
196	1	Lead	10.6	1	1	36	400	NoAB
196	1	Magnesium	11300	1	1	7700		NoE
196	1	Manganese	680	1	1	1500	419	NoB
196	1	Mercury	0.0272	1	1	0.2	0.213	NoAB
196	1	Molybdenum	1.3	1	1		23	NoA
196	1	Nickel	556	1	1	21	10.4	Yes
196	1	Selenium	0.93	1	1	0.8	23	NoA
196	1	Silver	0.094	1	1	2.3	2.61	NoAB
196	1	Sodium	357	1	1	320		NoE
196	1	Thallium	0.19	1	1	0.21	0.368	NoAB
196	1	Uranium	23.3	1	1	4.9	13.8	Yes
196	1	Vanadium	25.6	1	1	38	0.0365	NoB
196	1	Zinc	78	1	1	65	1380	NoA
196	1	Alpha activity	29.2	1	1			NoC

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
196	1	Americium-241	0.006	1	1		1.5	NoA
196	1	Beta activity	27.5	1	1			NoC
196	1	Cesium-137	0	1	1	0.49	0.0267	NoAB
196	1	Neptunium-237	0.311	1	1	0.1	0.0839	Yes
196	1	Plutonium-238	0.013	1	1	0.073	3.21	NoAB
196	1	Plutonium-239/240	0.032	1	1	0.025	3.15	NoA
196	1	Technetium-99	7.31	1	1	2.5	101	NoA
196	1	Thorium-228	0.586	1	1	1.6		NoB
196	1	Thorium-230	0.89	1	1	1.5	4.1	NoAB
196	1	Thorium-232	0.632	1	1	1.5		NoB
196	1	Uranium-234	1.29	1	1	1.2	5.47	NoA
196	1	Uranium-235	0.083	1	1	0.06	0.122	NoA
196	1	Uranium-238	1.54	1	1	1.2	0.517	Yes
196	2	Acenaphthylene	0.347	15	1			NoC
196	2	Aluminum	11300	2	2	13000	4410	NoB
196	2	Anthracene	1.343	15	1		747	NoA
196	2	Antimony	0.374	2	2	0.21	0.552	NoA
196	2	Arsenic	7.33	8	4	12	0.238	NoB
196	2	Barium	202	8	8	200	140	Yes
196	2	Beryllium	0.258	2	1	0.67	0.00567	NoB
196	2	Cadmium	2.53	8	2	0.21	0.811	Yes
196	2	Calcium	22500	2	2	200000		NoB
196	2	Chromium	20.7	8	8	16	15.6	Yes
196	2	Cobalt	6.53	2	2	14	1.37	NoB
196	2	Copper	20.9	2	2	19	184	NoA
196	2	Iron	14900	2	2	28000	3220	NoB
196	2	Lead	27.5	8	3	36	400	NoAB
196	2	Magnesium	1860	2	2	7700		NoB
196	2	Manganese	278	2	2	1500	419	NoAB
196	2	Mercury	0.0521	8	2	0.2	0.213	NoAB
196	2	Nickel	73.6	2	2	21	10.4	Yes
196	2	PCB, Total	1.51	11	2		0.0648	Yes
196	2	Pyrene	0.33	15	1		81.2	NoA
196	2	Selenium	0.352	8	1	0.8	23	NoAB
196	2	Sodium	423	2	2	320		NoE
196	2	Thallium	0.157	2	2	0.21	0.368	NoAB
196	2	Total PAH	0.68	15	1		0.0197	Yes
196	2	Uranium	6.63	1	1	4.9	13.8	NoA
196	2	Vanadium	17.3	2	2	38	0.0365	NoB
196	2	Zinc	222	2	2	65	1380	NoA
196	2	Alpha activity	16.63650552	3	3			NoC
196	2	Americium-241	0.0035	1	1		1.5	NoA
196	2	Beta activity	18.1	1	1			NoC
196	2	Cesium-137	0.038	1	1	0.49	0.0267	NoB
196	2	Neptunium-237	0.083	1	1	0.1	0.0839	NoAB
196	2	Plutonium-238	0.034	1	1	0.073	3.21	NoAB
196	2	Plutonium-239/240	0.017	1	1	0.025	3.15	NoAB
196	2	Technetium-99	0.58	1	1	2.5	101	NoAB
196	2	Thorium-228	0.141	1	1	1.6		NoB
196	2	Thorium-230	0.99	1	1	1.5	4.1	NoAB
196	2	Thorium-232	0.145	1	1	1.5		NoB
196	2	Uranium-234	1.72	1	1	1.2	5.47	NoA
196	2	Uranium-235	0.11	1	1	0.06	0.122	NoA
196	2	Uranium-238	2.21	1	1	1.2	0.517	Yes
200	1	Aluminum	4140	1	1	13000	4410	NoAB
200	1	Antimony	0.56	1	1	0.21	0.552	Yes
200	1	Arsenic	10.17	32	10	12	0.238	NoB
200	1	Barium	46.3	1	1	200	140	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
200	1	Beryllium	0.3	1	1	0.67	0.00567	NoB
200	1	Cadmium	0.31	1	1	0.21	0.811	NoA
200	1	Calcium	173000	1	1	200000		NoB
200	1	Chromium	57.53	32	11	16	15.6	Yes
200	1	Cobalt	4.1	1	1	14	1.37	NoB
200	1	Copper	44.22	32	18	19	184	NoA
200	1	Iron	19396.89	32	32	28000	3220	NoB
200	1	Lead	32.04	32	31	36	400	NoAB
200	1	Magnesium	5020	1	1	7700		NoB
200	1	Manganese	438.53	32	32	1500	419	NoB
200	1	Mercury	6.71	32	2	0.2	0.213	Yes
200	1	Molybdenum	0.57	32	1		23	NoA
200	1	Nickel	259.54	32	14	21	10.4	Yes
200	1	PCB, Total	2.6	15	2		0.0648	Yes
200	1	Selenium	5.84	32	4	0.8	23	NoA
200	1	Silver	0.084	32	1	2.3	2.61	NoAB
200	1	Sodium	76.9	1	1	320		NoB
200	1	Thallium	0.3	1	1	0.21	0.368	NoA
200	1	Total PAH	0.0284	1	1		0.0197	Yes
200	1	Uranium	49.25	33	16	4.9	13.8	Yes
200	1	Vanadium	14.4	1	1	38	0.0365	NoB
200	1	Zinc	248.34	32	32	65	1380	NoA
200	1	Alpha activity	40.6	2	2			NoC
200	1	Americium-241	0.029	2	2		1.5	NoA
200	1	Beta activity	39.8	2	2			NoC
200	1	Cesium-137	0.9	2	2	0.49	0.0267	Yes
200	1	Neptunium-237	0.045	2	2	0.1	0.0839	NoAB
200	1	Plutonium-238	0.018	2	2	0.073	3.21	NoAB
200	1	Plutonium-239/240	0.127	2	2	0.025	3.15	NoA
200	1	Technetium-99	2.42	2	2	2.5	101	NoAB
200	1	Thorium-228	0.633	2	2	1.6		NoB
200	1	Thorium-230	3.75	2	2	1.5	4.1	NoA
200	1	Thorium-232	0.74	2	2	1.5		NoB
200	1	Uranium-234	2.21	2	2	1.2	5.47	NoA
200	1	Uranium-235	0.161	2	2	0.06	0.122	Yes
200	1	Uranium-238	3.77	2	2	1.2	0.517	Yes
204	1	Aluminum	14800	7	7	13000	4410	Yes
204	1	Antimony	0.4	7	1	0.21	0.552	NoA
204	1	Arsenic	10.4	7	6	12	0.238	NoB
204	1	Barium	89	7	7	200	140	NoAB
204	1	Beryllium	1.36	7	5	0.67	0.00567	Yes
204	1	Cadmium	2.73	7	3	0.21	0.811	Yes
204	1	Calcium	6240	7	7	200000		NoB
204	1	Chromium	74	7	7	16	15.6	Yes
204	1	Cobalt	9.02	7	7	14	1.37	NoB
204	1	Copper	20.7	7	7	19	184	NoA
204	1	Iron	41900	7	7	28000	3220	Yes
204	1	Lead	22.3	7	4	36	400	NoAB
204	1	Magnesium	1540	7	7	7700		NoB
204	1	Manganese	484	7	7	1500	419	NoB
204	1	Mercury	0.062	7	2	0.2	0.213	NoAB
204	1	Molybdenum	0.7	7	3		23	NoA
204	1	Nickel	14.7	7	7	21	10.4	NoB
204	1	PCB, Total	2.53	22	4		0.0648	Yes
204	1	Selenium	0.51	7	1	0.8	23	NoAB
204	1	Sodium	149	7	4	320		NoB
204	1	Thallium	0.22	7	1	0.21	0.368	NoA
204	1	Uranium	10.9	2	2	4.9	13.8	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
204	1	Vanadium	75.5	7	7	38	0.0365	Yes
204	1	Zinc	85.5	7	7	65	1380	NoA
204	1	Americium-241	0.07364	3	3		1.5	NoA
204	1	Cesium-137	0.128	1	1	0.49	0.0267	NoB
204	1	Cobalt-60	0.00391	1	1		0.00547	NoA
204	1	Neptunium-237	0.00978	1	1	0.1	0.0839	NoAB
204	1	Plutonium-238	0.01143	4	4	0.073	3.21	NoAB
204	1	Plutonium-239/240	0.056	3	3	0.025	3.15	NoA
204	1	Technetium-99	8.42	4	4	2.5	101	NoA
204	1	Thorium-228	0.377	1	1	1.6		NoB
204	1	Thorium-230	0.362	1	1	1.5	4.1	NoAB
204	1	Thorium-232	0.397	1	1	1.5		NoB
204	1	Uranium-234	1.482	4	4	1.2	5.47	NoA
204	1	Uranium-235	0.18	4	4	0.06	0.122	Yes
204	1	Uranium-238	5.2	4	4	1.2	0.517	Yes
204	18	Uranium	16	1	1	4.9	13.8	Yes
204	18	Alpha activity	77	1	1			NoC
204	18	Americium-241	0.014	1	1		1.5	NoA
204	18	Beta activity	65.7	1	1			NoC
204	18	Cesium-137	0.63	1	1	0.49	0.0267	Yes
204	18	Neptunium-237	0.019	1	1	0.1	0.0839	NoAB
204	18	Plutonium-238	0.0096	1	1	0.073	3.21	NoAB
204	18	Plutonium-239/240	0.0105	1	1	0.025	3.15	NoAB
204	18	Technetium-99	0.26	1	1	2.5	101	NoAB
204	18	Thorium-228	1.05	1	1	1.6		NoB
204	18	Thorium-230	1.12	1	1	1.5	4.1	NoAB
204	18	Thorium-232	1.06	1	1	1.5		NoB
204	18	Uranium-234	2.27	1	1	1.2	5.47	NoA
204	18	Uranium-235	0.125	1	1	0.06	0.122	Yes
204	18	Uranium-238	5.37	1	1	1.2	0.517	Yes
204	2	Aluminum	13700	2	2	13000	4410	Yes
204	2	Arsenic	6.72	2	1	12	0.238	NoB
204	2	Barium	101	2	2	200	140	NoAB
204	2	Beryllium	0.515	2	1	0.67	0.00567	NoB
204	2	Calcium	1350	2	2	200000		NoB
204	2	Chromium	18	2	2	16	15.6	Yes
204	2	Cobalt	4.84	2	2	14	1.37	NoB
204	2	Copper	10	2	2	19	184	NoAB
204	2	Iron	16300	2	2	28000	3220	NoB
204	2	Magnesium	1750	2	2	7700		NoB
204	2	Manganese	251	2	2	1500	419	NoAB
204	2	Nickel	9.32	2	2	21	10.4	NoAB
204	2	PCB, Total	0.17	15	2		0.0648	Yes
204	2	Sodium	183	2	2	320		NoB
204	2	Tetrachloroethene	0.008	1	1		0.113	NoA
204	2	Uranium	1.51	2	2	4.9	13.8	NoAB
204	2	Vanadium	29.9	2	2	38	0.0365	NoB
204	2	Zinc	41.7	2	2	65	1380	NoAB
204	2	Americium-241	-0.0103	2	2		1.5	NoA
204	2	Cesium-137	-0.00476	2	2	0.49	0.0267	NoAB
204	2	Cobalt-60	0.00388	2	2		0.00547	NoA
204	2	Neptunium-237	-0.000463	2	2	0.1	0.0839	NoAB
204	2	Plutonium-238	-0.00479	2	2	0.073	3.21	NoAB
204	2	Plutonium-239/240	-0.00775	2	2	0.025	3.15	NoAB
204	2	Technetium-99	1.98	2	2	2.5	101	NoAB
204	2	Thorium-228	0.412	2	2	1.6		NoB
204	2	Thorium-230	0.283	2	2	1.5	4.1	NoAB
204	2	Thorium-232	0.461	2	2	1.5		NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
204	2	Uranium-234	0.22	2	2	1.2	5.47	NoAB
204	2	Uranium-235	0.0157	2	2	0.06	0.122	NoAB
204	2	Uranium-238	0.364	2	2	1.2	0.517	NoAB
204	23	Beryllium	1.33	2	2	0.67	0.00567	Yes
204	23	Chromium	175	2	2	16	15.6	Yes
204	23	PCB, Total	79	4	2		0.0648	Yes
204	23	Trichloroethene	0.015	1	1		0.0234	NoA
204	23	Uranium	13070	2	2	4.9	13.8	Yes
204	23	Americium-241	3.709	2	2		1.5	Yes
204	23	Cesium-137	1.172	2	2	0.49	0.0267	Yes
204	23	Cobalt-60	0.01225	2	2		0.00547	Yes
204	23	Neptunium-237	0.061	2	2	0.1	0.0839	NoAB
204	23	Plutonium-238	0.024	2	2	0.073	3.21	NoAB
204	23	Plutonium-239/240	0.098	2	2	0.025	3.15	NoA
204	23	Technetium-99	7.64	2	2	2.5	101	NoA
204	23	Thorium-228	0.8402	2	2	1.6		NoB
204	23	Thorium-230	1.15	2	2	1.5	4.1	NoAB
204	23	Thorium-232	0.515	2	2	1.5		NoB
204	23	Uranium-234	445	2	2	1.2	5.47	Yes
204	23	Uranium-235	57	2	2	0.06	0.122	Yes
204	23	Uranium-238	4386	2	2	1.2	0.517	Yes
204	3	Aluminum	8170	4	4	13000	4410	NoB
204	3	Barium	71.4	4	4	200	140	NoAB
204	3	Calcium	3500	4	4	200000		NoB
204	3	Chromium	20.6	4	4	16	15.6	Yes
204	3	Cobalt	4.73	4	4	14	1.37	NoB
204	3	Copper	9.39	4	4	19	184	NoAB
204	3	Iron	11600	4	4	28000	3220	NoB
204	3	Magnesium	1200	4	4	7700		NoB
204	3	Manganese	338	4	4	1500	419	NoAB
204	3	Nickel	7.07	4	3	21	10.4	NoAB
204	3	Sodium	196	4	4	320		NoB
204	3	Uranium	7.45	4	4	4.9	13.8	NoA
204	3	Vanadium	20.4	4	4	38	0.0365	NoB
204	3	Zinc	60.1	4	4	65	1380	NoAB
204	3	Americium-241	0.0086	4	4		1.5	NoA
204	3	Cesium-137	0.25	4	4	0.49	0.0267	NoB
204	3	Cobalt-60	0.00466	4	4		0.00547	NoA
204	3	Neptunium-237	0.0121	4	4	0.1	0.0839	NoAB
204	3	Plutonium-238	-0.00638	3	3	0.073	3.21	NoAB
204	3	Plutonium-239/240	0.00107	4	4	0.025	3.15	NoAB
204	3	Technetium-99	4.18	4	4	2.5	101	NoA
204	3	Thorium-228	0.366	4	4	1.6		NoB
204	3	Thorium-230	0.304	4	4	1.5	4.1	NoAB
204	3	Thorium-232	0.379	4	4	1.5		NoB
204	3	Uranium-234	0.813	4	4	1.2	5.47	NoAB
204	3	Uranium-235	0.0439	4	4	0.06	0.122	NoAB
204	3	Uranium-238	2.5	4	4	1.2	0.517	Yes
204	4	Aluminum	6510	4	4	13000	4410	NoB
204	4	Antimony	1.1	4	2	0.21	0.552	Yes
204	4	Arsenic	3	4	2	12	0.238	NoB
204	4	Barium	62.5	4	4	200	140	NoAB
204	4	Beryllium	0.33	4	2	0.67	0.00567	NoB
204	4	Cadmium	0.61	4	2	0.21	0.811	NoA
204	4	Calcium	4020	4	4	200000		NoB
204	4	Chromium	28.9	4	4	16	15.6	Yes
204	4	Cobalt	5	4	3	14	1.37	NoB
204	4	Copper	26.9	4	4	19	184	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
204	4	Iron	12800	4	4	28000	3220	NoB
204	4	Lead	9.6	4	2	36	400	NoAB
204	4	Magnesium	1300	4	4	7700		NoB
204	4	Manganese	319	4	4	1500	419	NoAB
204	4	Mercury	0.12	4	2	0.2	0.213	NoAB
204	4	Molybdenum	0.86	4	2		23	NoA
204	4	Nickel	9.07	4	4	21	10.4	NoAB
204	4	PCB, Total	0.042	19	1		0.0648	NoA
204	4	Sodium	108	4	2	320		NoB
204	4	Vanadium	17.5	4	4	38	0.0365	NoB
204	4	Zinc	166	4	4	65	1380	NoA
204	4	Americium-241	0.05039	2	2		1.5	NoA
204	4	Plutonium-238	0.01195	2	2	0.073	3.21	NoAB
204	4	Plutonium-239/240	0.007967	2	2	0.025	3.15	NoAB
204	4	Technetium-99	4.17	2	2	2.5	101	NoA
204	4	Uranium-234	2.095	2	2	1.2	5.47	NoA
204	4	Uranium-235	0.1878	2	2	0.06	0.122	Yes
204	4	Uranium-238	9.723	2	2	1.2	0.517	Yes
211	1	Aluminum	8800	2	2	13000	4410	NoB
211	1	Antimony	0.39	2	2	0.21	0.552	NoA
211	1	Arsenic	8.66	8	4	12	0.238	NoB
211	1	Barium	168	2	2	200	140	NoB
211	1	Benzo(ghi)perylene	0.046	4	1			NoC
211	1	Beryllium	0.48	2	2	0.67	0.00567	NoB
211	1	Cadmium	0.2	2	2	0.21	0.811	NoAB
211	1	Calcium	30000	2	2	200000		NoB
211	1	Chromium	44.75	8	6	16	15.6	Yes
211	1	Cobalt	7.7	2	2	14	1.37	NoB
211	1	Copper	23.51	8	3	19	184	NoA
211	1	Fluoranthene	0.11	4	2		109	NoA
211	1	Iron	16200	8	8	28000	3220	NoB
211	1	Lead	24.06	8	8	36	400	NoAB
211	1	Magnesium	3320	2	2	7700		NoB
211	1	Manganese	467.17	8	8	1500	419	NoB
211	1	Mercury	0.0843	8	1	0.2	0.213	NoAB
211	1	Molybdenum	1.1	8	2		23	NoA
211	1	Nickel	17.8	8	2	21	10.4	NoB
211	1	PCB, Total	0.36	19	6		0.0648	Yes
211	1	Phenanthrene	0.076	4	2			NoC
211	1	Pyrene	0.13	4	2		81.2	NoA
211	1	Selenium	2	8	2	0.8	23	NoA
211	1	Silver	0.051	8	2	2.3	2.61	NoAB
211	1	Sodium	51.7	2	2	320		NoB
211	1	Thallium	0.33	2	2	0.21	0.368	NoA
211	1	Total PAH	0.103806	4	2		0.0197	Yes
211	1	Uranium	21.86	8	5	4.9	13.8	Yes
211	1	Vanadium	24.2	2	2	38	0.0365	NoB
211	1	Zinc	52.47	8	8	65	1380	NoAB
211	1	Alpha activity	40	2	2			NoC
211	1	Americium-241	0.011	2	2		1.5	NoA
211	1	Beta activity	45.8	2	2			NoC
211	1	Cesium-137	0.136	2	2	0.49	0.0267	NoB
211	1	Neptunium-237	0.146	2	2	0.1	0.0839	Yes
211	1	Plutonium-238	0.011	2	2	0.073	3.21	NoAB
211	1	Plutonium-239/240	0.018	2	2	0.025	3.15	NoAB
211	1	Technetium-99	2.19	2	2	2.5	101	NoAB
211	1	Thorium-228	0.84	2	2	1.6		NoB
211	1	Thorium-230	0.88	2	2	1.5	4.1	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
211	1	Thorium-232	0.88	2	2	1.5		NoB
211	1	Uranium-234	3.27	2	2	1.2	5.47	NoA
211	1	Uranium-235	0.212	2	2	0.06	0.122	Yes
211	1	Uranium-238	5.84	2	2	1.2	0.517	Yes
212	1	Aluminum	9890	3	3	13000	4410	NoB
212	1	Antimony	0.52	3	1	0.21	0.552	NoA
212	1	Arsenic	14.42	5	4	12	0.238	Yes
212	1	Barium	105	3	3	200	140	NoAB
212	1	Beryllium	0.81	3	2	0.67	0.00567	Yes
212	1	Cadmium	0.28	3	1	0.21	0.811	NoA
212	1	Calcium	21900	3	3	200000		NoB
212	1	Chromium	35.8	5	3	16	15.6	Yes
212	1	Cobalt	9.9	3	3	14	1.37	NoB
212	1	Copper	20.9	5	4	19	184	NoA
212	1	Iron	41400.78	5	5	28000	3220	Yes
212	1	Lead	17.1	5	4	36	400	NoAB
212	1	Magnesium	2140	3	3	7700		NoB
212	1	Manganese	669.27	5	5	1500	419	NoB
212	1	Mercury	0.0299	5	2	0.2	0.213	NoAB
212	1	Molybdenum	1.3	4	1		23	NoA
212	1	Nickel	86.91	5	4	21	10.4	Yes
212	1	PCB, Total	0.18	14	1		0.0648	Yes
212	1	Selenium	0.85	5	1	0.8	23	NoA
212	1	Silver	0.035	5	1	2.3	2.61	NoAB
212	1	Sodium	53.6	3	2	320		NoB
212	1	Thallium	0.1	3	1	0.21	0.368	NoAB
212	1	Uranium	23	5	4	4.9	13.8	Yes
212	1	Vanadium	24.5	3	3	38	0.0365	NoB
212	1	Zinc	68.79	5	5	65	1380	NoA
212	1	Alpha activity	1280	2	2			NoC
212	1	Americium-241	0.93	3	3		1.5	NoA
212	1	Beta activity	120	2	2			NoC
212	1	Cesium-137	0.601	3	3	0.49	0.0267	Yes
212	1	Cobalt-60	0.00876	1	1		0.00547	Yes
212	1	Neptunium-237	4	3	3	0.1	0.0839	Yes
212	1	Plutonium-238	0.098	3	3	0.073	3.21	NoA
212	1	Plutonium-239/240	6.71	3	3	0.025	3.15	Yes
212	1	Technetium-99	5.78	3	3	2.5	101	NoA
212	1	Thorium-228	1.4	3	3	1.6		NoB
212	1	Thorium-230	260	3	3	1.5	4.1	Yes
212	1	Thorium-232	1	3	3	1.5		NoB
212	1	Uranium-234	2.59	3	3	1.2	5.47	NoA
212	1	Uranium-235	0.209	3	3	0.06	0.122	Yes
212	1	Uranium-238	3.17	3	3	1.2	0.517	Yes
213	1	Aluminum	4180	1	1	13000	4410	NoAB
213	1	Antimony	0.85	1	1	0.21	0.552	Yes
213	1	Arsenic	9.21	6	4	12	0.238	NoB
213	1	Barium	78.5	1	1	200	140	NoAB
213	1	Benzo(ghi)perylene	0.079	1	1			NoC
213	1	Beryllium	0.25	1	1	0.67	0.00567	NoB
213	1	Cadmium	0.51	1	1	0.21	0.811	NoA
213	1	Calcium	124000	1	1	200000		NoB
213	1	Chromium	47.81	6	2	16	15.6	Yes
213	1	Cobalt	3.8	1	1	14	1.37	NoB
213	1	Copper	7	6	1	19	184	NoAB
213	1	Fluoranthene	0.66	1	1		109	NoA
213	1	Iron	24576.19	6	6	28000	3220	NoB
213	1	Lead	18.4	6	3	36	400	NoAB

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NAL = no action limit
A = <Child Resident NAL C = no NAL available
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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
213	1	Magnesium	9150	1	1	7700		NoE
213	1	Manganese	906.25	6	6	1500	419	NoB
213	1	Mercury	0.0375	6	1	0.2	0.213	NoAB
213	1	Molybdenum	0.61	6	1		23	NoA
213	1	Nickel	66.73	6	2	21	10.4	Yes
213	1	PCB, Total	0.073	6	1		0.0648	Yes
213	1	Phenanthrene	0.096	1	1			NoC
213	1	Pyrene	0.49	1	1		81.2	NoA
213	1	Selenium	0.77	6	1	0.8	23	NoAB
213	1	Silver	13.17	6	3	2.3	2.61	Yes
213	1	Sodium	144	1	1	320		NoB
213	1	Thallium	0.17	1	1	0.21	0.368	NoAB
213	1	Total PAH	0.17186	1	1		0.0197	Yes
213	1	Uranium	6.98	6	1	4.9	13.8	NoA
213	1	Vanadium	13.1	1	1	38	0.0365	NoB
213	1	Zinc	117.36	6	6	65	1380	NoA
213	1	Alpha activity	31.4	1	1			NoC
213	1	Americium-241	0.01	1	1		1.5	NoA
213	1	Beta activity	28.2	1	1			NoC
213	1	Cesium-137	0.273	1	1	0.49	0.0267	NoB
213	1	Neptunium-237	0.029	1	1	0.1	0.0839	NoAB
213	1	Plutonium-238	0.022	1	1	0.073	3.21	NoAB
213	1	Plutonium-239/240	0.051	1	1	0.025	3.15	NoA
213	1	Technetium-99	0.26	1	1	2.5	101	NoAB
213	1	Thorium-228	0.263	1	1	1.6		NoB
213	1	Thorium-230	2.06	1	1	1.5	4.1	NoA
213	1	Thorium-232	0.255	1	1	1.5		NoB
213	1	Uranium-234	1.99	1	1	1.2	5.47	NoA
213	1	Uranium-235	0.11	1	1	0.06	0.122	NoA
213	1	Uranium-238	2.33	1	1	1.2	0.517	Yes
213	2	Arsenic	5.77	4	1	12	0.238	NoB
213	2	Chromium	44.81	4	2	16	15.6	Yes
213	2	Copper	26.36	4	1	19	184	NoA
213	2	Iron	13919.77	4	4	28000	3220	NoB
213	2	Lead	12.53	4	3	36	400	NoAB
213	2	Manganese	322.23	4	4	1500	419	NoAB
213	2	Nickel	90.98	4	1	21	10.4	Yes
213	2	Silver	11.26	4	1	2.3	2.61	Yes
213	2	Uranium	8.89	5	3	4.9	13.8	NoA
213	2	Zinc	99.54	4	4	65	1380	NoA
213	2	Alpha activity	17.8	1	1			NoC
213	2	Americium-241	0.002	1	1		1.5	NoA
213	2	Beta activity	9.9	1	1			NoC
213	2	Cesium-137	0.005	1	1	0.49	0.0267	NoAB
213	2	Neptunium-237	-0.0031	1	1	0.1	0.0839	NoAB
213	2	Plutonium-238	0.01	1	1	0.073	3.21	NoAB
213	2	Plutonium-239/240	0.007	1	1	0.025	3.15	NoAB
213	2	Technetium-99	0.11	1	1	2.5	101	NoAB
213	2	Thorium-228	0.065	1	1	1.6		NoB
213	2	Thorium-230	0.69	1	1	1.5	4.1	NoAB
213	2	Thorium-232	0.069	1	1	1.5		NoB
213	2	Uranium-234	0.96	1	1	1.2	5.47	NoAB
213	2	Uranium-235	0.053	1	1	0.06	0.122	NoAB
213	2	Uranium-238	0.82	1	1	1.2	0.517	NoB
214	1	Aluminum	5230	1	1	13000	4410	NoB
214	1	Antimony	0.57	1	1	0.21	0.552	Yes
214	1	Arsenic	11.52	2	2	12	0.238	NoB
214	1	Barium	90.8	1	1	200	140	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
214	1	Beryllium	0.27	1	1	0.67	0.00567	NoB
214	1	Butyl benzyl phthalate	0.044	1	1			NoC
214	1	Cadmium	0.28	1	1	0.21	0.811	NoA
214	1	Calcium	214000	1	1	200000		NoE
214	1	Chromium	14.3	2	1	16	15.6	NoAB
214	1	Cobalt	4.7	1	1	14	1.37	NoB
214	1	Copper	4.2	2	1	19	184	NoAB
214	1	Iron	12362.46	2	2	28000	3220	NoB
214	1	Lead	14.91	2	2	36	400	NoAB
214	1	Magnesium	12600	1	1	7700		NoE
214	1	Manganese	611.76	2	2	1500	419	NoB
214	1	Mercury	0.0416	2	1	0.2	0.213	NoAB
214	1	Molybdenum	0.45	2	1		23	NoA
214	1	Nickel	6.9	2	1	21	10.4	NoAB
214	1	Selenium	0.67	2	1	0.8	23	NoAB
214	1	Silver	0.021	2	1	2.3	2.61	NoAB
214	1	Sodium	222	1	1	320		NoB
214	1	Uranium	2.96	3	2	4.9	13.8	NoAB
214	1	Vanadium	17	1	1	38	0.0365	NoB
214	1	Zinc	61.96	2	2	65	1380	NoAB
214	1	Alpha activity	27.6	2	2			NoC
214	1	Americium-241	0.007	2	2		1.5	NoA
214	1	Beta activity	27.3	2	2			NoC
214	1	Cesium-137	0.02	2	2	0.49	0.0267	NoAB
214	1	Neptunium-237	0.001	2	2	0.1	0.0839	NoAB
214	1	Plutonium-238	0.019	2	2	0.073	3.21	NoAB
214	1	Plutonium-239/240	0.009	2	2	0.025	3.15	NoAB
214	1	Technetium-99	0.17	2	2	2.5	101	NoAB
214	1	Thorium-228	0.85	2	2	1.6		NoB
214	1	Thorium-230	1.16	2	2	1.5	4.1	NoAB
214	1	Thorium-232	0.95	2	2	1.5		NoB
214	1	Uranium-234	0.97	2	2	1.2	5.47	NoAB
214	1	Uranium-235	0.066	2	2	0.06	0.122	NoA
214	1	Uranium-238	0.99	2	2	1.2	0.517	NoB
215	1	Aluminum	4370	2	2	13000	4410	NoAB
215	1	Antimony	0.68	2	2	0.21	0.552	Yes
215	1	Arsenic	8.3	11	7	12	0.238	NoB
215	1	Barium	61.9	2	2	200	140	NoAB
215	1	Benzo(ghi)perylene	0.048	1	1			NoC
215	1	Beryllium	0.31	2	2	0.67	0.00567	NoB
215	1	Cadmium	0.39	2	2	0.21	0.811	NoA
215	1	Calcium	172000	2	2	200000		NoB
215	1	Chromium	57.32	11	6	16	15.6	Yes
215	1	Cobalt	5.1	2	2	14	1.37	NoB
215	1	Copper	23.98	11	3	19	184	NoA
215	1	Fluoranthene	0.15	1	1		109	NoA
215	1	Iron	38688.75	11	11	28000	3220	Yes
215	1	Lead	19.62	11	11	36	400	NoAB
215	1	Magnesium	9950	2	2	7700		NoE
215	1	Manganese	672	11	11	1500	419	NoB
215	1	Mercury	0.0283	11	2	0.2	0.213	NoAB
215	1	Molybdenum	0.76	11	2		23	NoA
215	1	Nickel	73.16	11	3	21	10.4	Yes
215	1	Phenanthrene	0.085	1	1			NoC
215	1	Pyrene	0.13	1	1		81.2	NoA
215	1	Selenium	0.92	11	2	0.8	23	NoA
215	1	Silver	0.064	11	2	2.3	2.61	NoAB
215	1	Sodium	317	2	2	320		NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
215	1	Thallium	0.21	2	2	0.21	0.368	NoA
215	1	Total PAH	0.080885	1	1		0.0197	Yes
215	1	Uranium	2.85	12	3	4.9	13.8	NoAB
215	1	Vanadium	14.8	2	2	38	0.0365	NoB
215	1	Zinc	573.24	11	11	65	1380	NoA
215	1	Alpha activity	23	2	2			NoC
215	1	Americium-241	0.017	2	2		1.5	NoA
215	1	Beta activity	30.2	2	2			NoC
215	1	Cesium-137	0.271	2	2	0.49	0.0267	NoB
215	1	Neptunium-237	0.01	2	2	0.1	0.0839	NoAB
215	1	Plutonium-238	0.01	2	2	0.073	3.21	NoAB
215	1	Plutonium-239/240	0.029	2	2	0.025	3.15	NoA
215	1	Technetium-99	0.01	2	2	2.5	101	NoAB
215	1	Thorium-228	0.413	2	2	1.6		NoB
215	1	Thorium-230	0.73	2	2	1.5	4.1	NoAB
215	1	Thorium-232	0.394	2	2	1.5		NoB
215	1	Uranium-234	0.86	2	2	1.2	5.47	NoAB
215	1	Uranium-235	0.031	2	2	0.06	0.122	NoAB
215	1	Uranium-238	0.95	2	2	1.2	0.517	NoB
216	1	Aluminum	7260	1	1	13000	4410	NoB
216	1	Antimony	0.34	1	1	0.21	0.552	NoA
216	1	Arsenic	8.6	1	1	12	0.238	NoB
216	1	Barium	79.3	1	1	200	140	NoAB
216	1	Benzo(ghi)perylene	0.089	1	1			NoC
216	1	Beryllium	0.5	1	1	0.67	0.00567	NoB
216	1	Cadmium	0.42	1	1	0.21	0.811	NoA
216	1	Calcium	9660	1	1	200000		NoB
216	1	Chromium	23.8	1	1	16	15.6	Yes
216	1	Cobalt	6	1	1	14	1.37	NoB
216	1	Copper	9	1	1	19	184	NoAB
216	1	Fluoranthene	0.13	1	1		109	NoA
216	1	Iron	15500	1	1	28000	3220	NoB
216	1	Lead	17.8	1	1	36	400	NoAB
216	1	Magnesium	4010	1	1	7700		NoB
216	1	Manganese	664	1	1	1500	419	NoB
216	1	Mercury	0.0349	1	1	0.2	0.213	NoAB
216	1	Molybdenum	0.71	1	1		23	NoA
216	1	Nickel	8.8	1	1	21	10.4	NoAB
216	1	Phenol	0.13	1	1			NoC
216	1	Pyrene	0.12	1	1		81.2	NoA
216	1	Selenium	1.3	1	1	0.8	23	NoA
216	1	Silver	0.034	1	1	2.3	2.61	NoAB
216	1	Sodium	39.7	1	1	320		NoB
216	1	Thallium	0.21	1	1	0.21	0.368	NoA
216	1	Total PAH	0.14932	1	1		0.0197	Yes
216	1	Uranium	8.43	2	2	4.9	13.8	NoA
216	1	Vanadium	26.6	1	1	38	0.0365	NoB
216	1	Zinc	33	1	1	65	1380	NoAB
216	1	Alpha activity	39.4	2	2			NoC
216	1	Americium-241	0.016	2	2		1.5	NoA
216	1	Beta activity	32.4	2	2			NoC
216	1	Cesium-137	0.41	2	2	0.49	0.0267	NoB
216	1	Neptunium-237	0.053	2	2	0.1	0.0839	NoAB
216	1	Plutonium-238	0.006	2	2	0.073	3.21	NoAB
216	1	Plutonium-239/240	0.018	2	2	0.025	3.15	NoAB
216	1	Technetium-99	0.35	2	2	2.5	101	NoAB
216	1	Thorium-228	1.03	2	2	1.6		NoB
216	1	Thorium-230	1.01	2	2	1.5	4.1	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
216	1	Thorium-232	0.96	2	2	1.5		NoB
216	1	Uranium-234	1.15	2	2	1.2	5.47	NoAB
216	1	Uranium-235	0.065	2	2	0.06	0.122	NoA
216	1	Uranium-238	1.33	2	2	1.2	0.517	Yes
217	1	Aluminum	5980	2	2	13000	4410	NoB
217	1	Antimony	0.3	2	2	0.21	0.552	NoA
217	1	Arsenic	9.58	13	9	12	0.238	NoB
217	1	Barium	115	2	2	200	140	NoAB
217	1	Beryllium	0.38	2	2	0.67	0.00567	NoB
217	1	Cadmium	0.16	2	2	0.21	0.811	NoAB
217	1	Calcium	21100	2	2	200000		NoB
217	1	Chromium	88.9	13	4	16	15.6	Yes
217	1	Cobalt	25	2	2	14	1.37	Yes
217	1	Copper	25.9	13	3	19	184	NoA
217	1	Iron	23242.97	13	13	28000	3220	NoB
217	1	Lead	10.68	13	10	36	400	NoAB
217	1	Magnesium	862	2	2	7700		NoB
217	1	Manganese	1956.03	13	13	1500	419	Yes
217	1	Mercury	0.0153	13	2	0.2	0.213	NoAB
217	1	Molybdenum	0.84	13	2		23	NoA
217	1	Nickel	130.42	13	8	21	10.4	Yes
217	1	Selenium	0.48	13	2	0.8	23	NoAB
217	1	Silver	13.45	13	4	2.3	2.61	Yes
217	1	Sodium	67.2	2	2	320		NoB
217	1	Thallium	0.23	2	2	0.21	0.368	NoA
217	1	Total PAH	0.0052	1	1		0.0197	NoA
217	1	Uranium	3.8	14	3	4.9	13.8	NoAB
217	1	Vanadium	21	2	2	38	0.0365	NoB
217	1	Zinc	81.66	13	13	65	1380	NoA
217	1	Alpha activity	22.7	2	2			NoC
217	1	Americium-241	0.009	2	2		1.5	NoA
217	1	Beta activity	21.4	2	2			NoC
217	1	Cesium-137	0.113	2	2	0.49	0.0267	NoB
217	1	Neptunium-237	0.023	2	2	0.1	0.0839	NoAB
217	1	Plutonium-238	0.01	2	2	0.073	3.21	NoAB
217	1	Plutonium-239/240	0.019	2	2	0.025	3.15	NoAB
217	1	Technetium-99	1.59	2	2	2.5	101	NoAB
217	1	Thorium-228	0.244	2	2	1.6		NoB
217	1	Thorium-230	0.496	2	2	1.5	4.1	NoAB
217	1	Thorium-232	0.262	2	2	1.5		NoB
217	1	Uranium-234	0.98	2	2	1.2	5.47	NoAB
217	1	Uranium-235	0.067	2	2	0.06	0.122	NoA
217	1	Uranium-238	1.27	2	2	1.2	0.517	Yes
217	2	Aluminum	8190	6	6	13000	4410	NoB
217	2	Antimony	1.7	6	3	0.21	0.552	Yes
217	2	Arsenic	21.3	20	11	12	0.238	Yes
217	2	Barium	86.6	6	6	200	140	NoAB
217	2	Benzene	0.002	3	1		0.333	NoA
217	2	Benzo(ghi)perylene	0.27	4	1			NoC
217	2	Beryllium	0.52	6	5	0.67	0.00567	NoB
217	2	Cadmium	0.69	6	3	0.21	0.811	NoA
217	2	Calcium	25800	6	6	200000		NoB
217	2	Chromium	108.22	20	8	16	15.6	Yes
217	2	Cobalt	27	6	6	14	1.37	Yes
217	2	Copper	37.2	20	7	19	184	NoA
217	2	Di-n-butyl phthalate	0.22	4	1			NoC
217	2	Fluoranthene	0.34	4	1		109	NoA
217	2	Iron	60384.46	20	20	28000	3220	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
217	2	Lead	43.53	20	15	36	400	NoA
217	2	Magnesium	1210	6	6	7700		NoB
217	2	Manganese	2054.22	20	20	1500	419	Yes
217	2	Mercury	8.59	20	3	0.2	0.213	Yes
217	2	Molybdenum	5.89	16	3		23	NoA
217	2	Nickel	131.45	20	12	21	10.4	Yes
217	2	Phenanthrene	0.079	4	1			NoC
217	2	Pyrene	0.28	4	1		81.2	NoA
217	2	Selenium	1.67	18	3	0.8	23	NoA
217	2	Silver	16.09	20	5	2.3	2.61	Yes
217	2	Sodium	86.7	5	5	320		NoB
217	2	Thallium	0.25	6	3	0.21	0.368	NoA
217	2	Total PAH	0.73675	4	2		0.0197	Yes
217	2	Trichloroethene	0.004	3	1		0.0234	NoA
217	2	Uranium	7.9	17	3	4.9	13.8	NoA
217	2	Vanadium	26.8	6	6	38	0.0365	NoB
217	2	Zinc	589.19	20	20	65	1380	NoA
217	2	Alpha activity	23.4	1	1			NoC
217	2	Americium-241	0.0181	2	2		1.5	NoA
217	2	Beta activity	18.2	1	1			NoC
217	2	Cesium-137	0.014	2	2	0.49	0.0267	NoAB
217	2	Cobalt-60	-0.00272	1	1		0.00547	NoA
217	2	Neptunium-237	0.0146	2	2	0.1	0.0839	NoAB
217	2	Plutonium-238	-0.0002	2	2	0.073	3.21	NoAB
217	2	Plutonium-239/240	0.0019	2	2	0.025	3.15	NoAB
217	2	Technetium-99	1.89	2	2	2.5	101	NoAB
217	2	Thorium-228	0.42	2	2	1.6		NoB
217	2	Thorium-230	0.438	2	2	1.5	4.1	NoAB
217	2	Thorium-232	0.404	2	2	1.5		NoB
217	2	Uranium-234	0.924	2	2	1.2	5.47	NoAB
217	2	Uranium-235	0.0438	2	2	0.06	0.122	NoAB
217	2	Uranium-238	0.772	2	2	1.2	0.517	NoB
219	1	Aluminum	5480	1	1	13000	4410	NoB
219	1	Antimony	0.38	1	1	0.21	0.552	NoA
219	1	Arsenic	3.4	1	1	12	0.238	NoB
219	1	Barium	87	1	1	200	140	NoAB
219	1	Beryllium	0.28	1	1	0.67	0.00567	NoB
219	1	Cadmium	0.24	1	1	0.21	0.811	NoA
219	1	Calcium	79100	1	1	200000		NoB
219	1	Chromium	10.8	1	1	16	15.6	NoAB
219	1	Cobalt	3.7	1	1	14	1.37	NoB
219	1	Copper	12.4	1	1	19	184	NoAB
219	1	Fluoranthene	0.12	1	1		109	NoA
219	1	Iron	8780	1	1	28000	3220	NoB
219	1	Lead	16.18	1	1	36	400	NoAB
219	1	Magnesium	2630	1	1	7700		NoB
219	1	Manganese	212	1	1	1500	419	NoAB
219	1	Mercury	0.0259	1	1	0.2	0.213	NoAB
219	1	Molybdenum	0.34	1	1		23	NoA
219	1	Nickel	67.13	1	1	21	10.4	Yes
219	1	Phenanthrene	0.074	1	1			NoC
219	1	Pyrene	0.1	1	1		81.2	NoA
219	1	Selenium	1.1	1	1	0.8	23	NoA
219	1	Silver	0.056	1	1	2.3	2.61	NoAB
219	1	Sodium	86.4	1	1	320		NoB
219	1	Thallium	0.13	1	1	0.21	0.368	NoAB
219	1	Total PAH	0.075039	1	1		0.0197	Yes
219	1	Uranium	13.2	2	2	4.9	13.8	NoA

SWMU = solid waste management unit
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A = <Child Resident NAL C = no NAL available
B = <Background E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
219	1	Vanadium	15.2	1	1	38	0.0365	NoB
219	1	Zinc	48.99	1	1	65	1380	NoAB
219	1	Alpha activity	37.3	2	2			NoC
219	1	Americium-241	0.012	2	2		1.5	NoA
219	1	Beta activity	45.8	2	2			NoC
219	1	Cesium-137	0.092	2	2	0.49	0.0267	NoB
219	1	Neptunium-237	0.331	2	2	0.1	0.0839	Yes
219	1	Plutonium-238	0.01	2	2	0.073	3.21	NoAB
219	1	Plutonium-239/240	0.032	2	2	0.025	3.15	NoA
219	1	Technetium-99	10	2	2	2.5	101	NoA
219	1	Thorium-228	0.84	2	2	1.6		NoB
219	1	Thorium-230	1.01	2	2	1.5	4.1	NoAB
219	1	Thorium-232	0.92	2	2	1.5		NoB
219	1	Uranium-234	2.54	2	2	1.2	5.47	NoA
219	1	Uranium-235	0.192	2	2	0.06	0.122	Yes
219	1	Uranium-238	4.4	2	2	1.2	0.517	Yes
221	1	Acenaphthylene	0.15	1	1			NoC
221	1	Aluminum	4170	1	1	13000	4410	NoAB
221	1	Anthracene	0.095	1	1		747	NoA
221	1	Antimony	0.3	1	1	0.21	0.552	NoA
221	1	Arsenic	10.78	18	8	12	0.238	NoB
221	1	Barium	221	1	1	200	140	Yes
221	1	Benzo(ghi)perylene	0.46	1	1			NoC
221	1	Beryllium	0.17	1	1	0.67	0.00567	NoB
221	1	Bis(2-ethylhexyl)phthalate	0.14	1	1			NoC
221	1	Cadmium	0.39	1	1	0.21	0.811	NoA
221	1	Calcium	243000	1	1	200000		NoE
221	1	Chromium	72.82	18	13	16	15.6	Yes
221	1	Cobalt	2.2	1	1	14	1.37	NoB
221	1	Copper	28.92	18	8	19	184	NoA
221	1	Di-n-butyl phthalate	0.096	1	1			NoC
221	1	Fluoranthene	0.76	1	1		109	NoA
221	1	Iron	43475.53	18	18	28000	3220	Yes
221	1	Lead	45.81	18	17	36	400	NoA
221	1	Magnesium	13800	1	1	7700		NoE
221	1	Manganese	497.77	18	18	1500	419	NoB
221	1	Mercury	0.0121	18	1	0.2	0.213	NoAB
221	1	Molybdenum	0.43	18	1		23	NoA
221	1	Nickel	80.29	18	3	21	10.4	Yes
221	1	PCB, Total	0.5	12	1		0.0648	Yes
221	1	Phenanthrene	0.096	1	1			NoC
221	1	Pyrene	0.75	1	1		81.2	NoA
221	1	Selenium	0.77	18	1	0.8	23	NoAB
221	1	Silver	0.043	18	1	2.3	2.61	NoAB
221	1	Sodium	188	1	1	320		NoB
221	1	Thallium	0.13	1	1	0.21	0.368	NoAB
221	1	Total PAH	1.02258	1	1		0.0197	Yes
221	1	Uranium	16.37	18	10	4.9	13.8	Yes
221	1	Vanadium	10.4	1	1	38	0.0365	NoB
221	1	Zinc	161.35	18	18	65	1380	NoA
221	1	Alpha activity	17.7	1	1			NoC
221	1	Americium-241	0.01	1	1		1.5	NoA
221	1	Beta activity	27.5	1	1			NoC
221	1	Cesium-137	0.022	1	1	0.49	0.0267	NoAB
221	1	Neptunium-237	0.07	1	1	0.1	0.0839	NoAB
221	1	Plutonium-238	0.016	1	1	0.073	3.21	NoAB
221	1	Plutonium-239/240	0.0017	1	1	0.025	3.15	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
221	1	Technetium-99	0.22	1	1	2.5	101	NoAB
221	1	Thorium-228	0.243	1	1	1.6		NoB
221	1	Thorium-230	0.84	1	1	1.5	4.1	NoAB
221	1	Thorium-232	0.263	1	1	1.5		NoB
221	1	Uranium-234	1.2	1	1	1.2	5.47	NoA
221	1	Uranium-235	0.067	1	1	0.06	0.122	NoA
221	1	Uranium-238	1.93	1	1	1.2	0.517	Yes
222	1	Aluminum	8640	2	2	13000	4410	NoB
222	1	Antimony	0.39	2	1	0.21	0.552	NoA
222	1	Arsenic	9.6	13	4	12	0.238	NoB
222	1	Barium	79	2	2	200	140	NoAB
222	1	Benzo(ghi)perylene	0.22	1	1			NoC
222	1	Beryllium	0.51	2	2	0.67	0.00567	NoB
222	1	Bis(2-ethylhexyl)phthalate	0.24	1	1			NoC
222	1	Cadmium	0.55	2	2	0.21	0.811	NoA
222	1	Calcium	315000	2	2	200000		NoE
222	1	Chromium	47.31	13	4	16	15.6	Yes
222	1	Cobalt	7.1	2	2	14	1.37	NoB
222	1	Copper	24.51	13	3	19	184	NoA
222	1	Fluoranthene	0.27	1	1		109	NoA
222	1	Iron	18900	13	13	28000	3220	NoB
222	1	Lead	32.5	13	11	36	400	NoAB
222	1	Magnesium	7040	2	2	7700		NoB
222	1	Manganese	855.2	13	13	1500	419	NoB
222	1	Molybdenum	1.2	13	2		23	NoA
222	1	Nickel	91.9	13	5	21	10.4	Yes
222	1	PCB, Total	1.4	1	1		0.0648	Yes
222	1	Phenanthrene	0.085	1	1			NoC
222	1	Pyrene	0.21	1	1		81.2	NoA
222	1	Selenium	1.4	13	2	0.8	23	NoA
222	1	Silver	0.045	13	2	2.3	2.61	NoAB
222	1	Sodium	146	2	2	320		NoB
222	1	Thallium	0.35	2	2	0.21	0.368	NoA
222	1	Total PAH	0.17716	1	1		0.0197	Yes
222	1	Uranium	58.6	15	6	4.9	13.8	Yes
222	1	Vanadium	30	2	2	38	0.0365	NoB
222	1	Zinc	94.49	13	13	65	1380	NoA
222	1	Alpha activity	85	3	3			NoC
222	1	Americium-241	0.053	3	3		1.5	NoA
222	1	Beta activity	106	3	3			NoC
222	1	Cesium-137	0.393	3	3	0.49	0.0267	NoB
222	1	Neptunium-237	0.063	2	2	0.1	0.0839	NoAB
222	1	Plutonium-238	0.019	3	3	0.073	3.21	NoAB
222	1	Plutonium-239/240	0.278	3	3	0.025	3.15	NoA
222	1	Technetium-99	10.4	3	3	2.5	101	NoA
222	1	Thorium-228	0.79	3	3	1.6		NoB
222	1	Thorium-230	3.38	3	3	1.5	4.1	NoA
222	1	Thorium-232	0.82	3	3	1.5		NoB
222	1	Uranium-234	10.4	3	3	1.2	5.47	Yes
222	1	Uranium-235	0.71	3	3	0.06	0.122	Yes
222	1	Uranium-238	19.6	3	3	1.2	0.517	Yes
224	1	Acenaphthene	3.4	3	3		117	NoA
224	1	Aluminum	8450	3	3	13000	4410	NoB
224	1	Anthracene	6	3	3		747	NoA
224	1	Antimony	0.39	3	2	0.21	0.552	NoA
224	1	Arsenic	11.95	8	4	12	0.238	NoB
224	1	Barium	107	3	3	200	140	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
224	1	Benzo(ghi)perylene	0.36	2	2			NoC
224	1	Benzoic acid	0.45	2	1			NoC
224	1	Beryllium	0.63	3	3	0.67	0.00567	NoB
224	1	Cadmium	0.38	3	2	0.21	0.811	NoA
224	1	Calcium	125000	3	3	200000		NoB
224	1	Chromium	44.9	8	5	16	15.6	Yes
224	1	Cobalt	7.81	3	3	14	1.37	NoB
224	1	Copper	9.4	8	3	19	184	NoAB
224	1	Dibenzofuran	1	3	2			NoC
224	1	Fluoranthene	26	3	3		109	NoA
224	1	Fluorene	3	3	3		91.5	NoA
224	1	Iron	17800	8	8	28000	3220	NoB
224	1	Lead	16.96	8	7	36	400	NoAB
224	1	Magnesium	2300	3	3	7700		NoB
224	1	Manganese	815	8	8	1500	419	NoB
224	1	Mercury	0.0252	8	2	0.2	0.213	NoAB
224	1	Molybdenum	0.79	7	2		23	NoA
224	1	Naphthalene	0.6	3	3		1.15	NoA
224	1	Nickel	9.4	8	3	21	10.4	NoAB
224	1	PCB, Total	475	15	9		0.0648	Yes
224	1	Phenanthrene	15	3	3			NoC
224	1	Pyrene	22	3	3		81.2	NoA
224	1	Selenium	1.2	8	2	0.8	23	NoA
224	1	Silver	0.15	8	2	2.3	2.61	NoAB
224	1	Sodium	111	3	2	320		NoB
224	1	Thallium	0.12	3	2	0.21	0.368	NoAB
224	1	Total PAH	45.271	3	3		0.0197	Yes
224	1	Uranium	41.5	8	7	4.9	13.8	Yes
224	1	Vanadium	28.2	3	3	38	0.0365	NoB
224	1	Zinc	108.71	8	8	65	1380	NoA
224	1	Alpha activity	50	3	3			NoC
224	1	Americium-241	0.01	3	3		1.5	NoA
224	1	Beta activity	58.1	3	3			NoC
224	1	Cesium-137	0.37	3	3	0.49	0.0267	NoB
224	1	Neptunium-237	0.0435	4	4	0.1	0.0839	NoAB
224	1	Plutonium-238	0.026	3	3	0.073	3.21	NoAB
224	1	Plutonium-239/240	0.034	4	4	0.025	3.15	NoA
224	1	Technetium-99	3.66	4	4	2.5	101	NoA
224	1	Thorium-228	0.93	3	3	1.6		NoB
224	1	Thorium-230	1.15	3	3	1.5	4.1	NoAB
224	1	Thorium-232	0.97	3	3	1.5		NoB
224	1	Uranium-234	3.12	4	4	1.2	5.47	NoA
224	1	Uranium-235	0.25	3	3	0.06	0.122	Yes
224	1	Uranium-238	26.4	4	4	1.2	0.517	Yes
225	1	Aluminum	8480	1	1	13000	4410	NoB
225	1	Antimony	0.54	1	1	0.21	0.552	NoA
225	1	Arsenic	8.1	1	1	12	0.238	NoB
225	1	Barium	89	1	1	200	140	NoAB
225	1	Beryllium	0.48	1	1	0.67	0.00567	NoB
225	1	Cadmium	0.12	1	1	0.21	0.811	NoAB
225	1	Calcium	4050	1	1	200000		NoB
225	1	Chromium	25.5	1	1	16	15.6	Yes
225	1	Cobalt	7.3	1	1	14	1.37	NoB
225	1	Copper	12.3	1	1	19	184	NoAB
225	1	Fluoranthene	0.15	1	1		109	NoA
225	1	Iron	15700	1	1	28000	3220	NoB
225	1	Lead	16.9	1	1	36	400	NoAB
225	1	Magnesium	1560	1	1	7700		NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
225	1	Manganese	426	1	1	1500	419	NoB
225	1	Mercury	0.031	1	1	0.2	0.213	NoAB
225	1	Molybdenum	0.85	1	1		23	NoA
225	1	Nickel	12.1	1	1	21	10.4	NoB
225	1	Phenanthrene	0.075	1	1			NoC
225	1	Pyrene	0.1	1	1		81.2	NoA
225	1	Selenium	1.5	1	1	0.8	23	NoA
225	1	Silver	0.033	1	1	2.3	2.61	NoAB
225	1	Sodium	36.5	1	1	320		NoB
225	1	Thallium	0.28	1	1	0.21	0.368	NoA
225	1	Total PAH	0.077851	1	1		0.0197	Yes
225	1	Uranium	6.1	1	1	4.9	13.8	NoA
225	1	Vanadium	26.9	1	1	38	0.0365	NoB
225	1	Zinc	47.4	1	1	65	1380	NoAB
225	1	Alpha activity	31.2	1	1			NoC
225	1	Americium-241	0.0032	1	1		1.5	NoA
225	1	Beta activity	37.1	1	1			NoC
225	1	Cesium-137	0.417	1	1	0.49	0.0267	NoB
225	1	Neptunium-237	0.011	1	1	0.1	0.0839	NoAB
225	1	Plutonium-238	0.026	1	1	0.073	3.21	NoAB
225	1	Plutonium-239/240	0.019	1	1	0.025	3.15	NoAB
225	1	Technetium-99	0.2	1	1	2.5	101	NoAB
225	1	Thorium-228	0.9	1	1	1.6		NoB
225	1	Thorium-230	1.03	1	1	1.5	4.1	NoAB
225	1	Thorium-232	0.92	1	1	1.5		NoB
225	1	Uranium-234	1.13	1	1	1.2	5.47	NoAB
225	1	Uranium-235	0.055	1	1	0.06	0.122	NoAB
225	1	Uranium-238	2.04	1	1	1.2	0.517	Yes
226	1	Aluminum	9040	3	3	13000	4410	NoB
226	1	Antimony	0.66	3	1	0.21	0.552	Yes
226	1	Arsenic	10.46	15	5	12	0.238	NoB
226	1	Barium	70.2	3	3	200	140	NoAB
226	1	Beryllium	0.3	3	1	0.67	0.00567	NoB
226	1	Bis(2-ethylhexyl)phthalate	0.33	1	1			NoC
226	1	Cadmium	0.31	3	1	0.21	0.811	NoA
226	1	Calcium	144000	3	3	200000		NoB
226	1	Chromium	42.53	15	5	16	15.6	Yes
226	1	Cobalt	6.5	3	3	14	1.37	NoB
226	1	Copper	46.51	15	5	19	184	NoA
226	1	Fluoranthene	0.15	3	1		109	NoA
226	1	Iron	26905.05	15	15	28000	3220	NoB
226	1	Lead	24.28	15	10	36	400	NoAB
226	1	Magnesium	4150	3	3	7700		NoB
226	1	Manganese	2346.69	15	15	1500	419	Yes
226	1	Mercury	9.74	15	2	0.2	0.213	Yes
226	1	Molybdenum	20.93	15	3		23	NoA
226	1	Nickel	596.13	15	12	21	10.4	Yes
226	1	PCB, Total	1.49	38	11		0.0648	Yes
226	1	Phenanthrene	0.12	3	1			NoC
226	1	Pyrene	0.1	3	1		81.2	NoA
226	1	Selenium	0.52	15	1	0.8	23	NoAB
226	1	Silver	0.017	15	1	2.3	2.61	NoAB
226	1	Sodium	71	3	1	320		NoB
226	1	Thallium	0.1	3	1	0.21	0.368	NoAB
226	1	Total PAH	0.09188	3	1		0.0197	Yes
226	1	Uranium	1286.45	16	16	4.9	13.8	Yes
226	1	Vanadium	17.1	3	3	38	0.0365	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
226	1	Zinc	84.24	15	15	65	1380	NoA
226	1	Alpha activity	1540	2	2			NoC
226	1	Americium-241	4.15	4	4		1.5	Yes
226	1	Beta activity	1100	2	2			NoC
226	1	Cesium-137	6.51	4	4	0.49	0.0267	Yes
226	1	Cobalt-60	0.0166	2	2		0.00547	Yes
226	1	Neptunium-237	413	4	4	0.1	0.0839	Yes
226	1	Plutonium-238	5.5	4	4	0.073	3.21	Yes
226	1	Plutonium-239/240	16.5	4	4	0.025	3.15	Yes
226	1	Technetium-99	124	4	4	2.5	101	Yes
226	1	Thorium-228	0.7	4	4	1.6		NoB
226	1	Thorium-230	120	4	4	1.5	4.1	Yes
226	1	Thorium-232	1.39	4	4	1.5		NoB
226	1	Uranium-234	55	4	4	1.2	5.47	Yes
226	1	Uranium-235	2.61	4	4	0.06	0.122	Yes
226	1	Uranium-238	57	4	4	1.2	0.517	Yes
227	1	Aluminum	11200	6	6	13000	4410	NoB
227	1	Arsenic	9.84	21	8	12	0.238	NoB
227	1	Barium	106	6	6	200	140	NoAB
227	1	Benzo(ghi)perylene	0.117	7	1			NoC
227	1	Beryllium	0.79	6	3	0.67	0.00567	Yes
227	1	Cadmium	0.19	6	1	0.21	0.811	NoAB
227	1	Calcium	104000	6	6	200000		NoB
227	1	Chromium	47.14	21	13	16	15.6	Yes
227	1	Cobalt	6.8	6	5	14	1.37	NoB
227	1	Copper	157.89	21	13	19	184	NoA
227	1	Di-n-butyl phthalate	0.76	4	1			NoC
227	1	Fluoranthene	0.249	6	2		109	NoA
227	1	Iron	18400	21	21	28000	3220	NoB
227	1	Lead	60.3	21	16	36	400	NoA
227	1	Magnesium	3530	6	6	7700		NoB
227	1	Manganese	746.6	21	21	1500	419	NoB
227	1	Mercury	0.0122	21	1	0.2	0.213	NoAB
227	1	Molybdenum	0.76	18	1		23	NoA
227	1	Nickel	653	21	12	21	10.4	Yes
227	1	PCB, Total	4.77	49	17		0.0648	Yes
227	1	Pyrene	0.269	7	1		81.2	NoA
227	1	Selenium	1.4	21	2	0.8	23	NoA
227	1	Silver	0.044	21	1	2.3	2.61	NoAB
227	1	Sodium	211	5	4	320		NoB
227	1	Total PAH	0.337817	7	3		0.0197	Yes
227	1	Uranium	438	20	14	4.9	13.8	Yes
227	1	Vanadium	31.1	6	6	38	0.0365	NoB
227	1	Zinc	164	21	20	65	1380	NoA
227	1	Alpha activity	83	3	3			NoC
227	1	Americium-241	0.0322	6	6		1.5	NoA
227	1	Beta activity	345	3	3			NoC
227	1	Cesium-137	0.51	6	6	0.49	0.0267	Yes
227	1	Cobalt-60	0.0153	3	3		0.00547	Yes
227	1	Neptunium-237	2.53	4	4	0.1	0.0839	Yes
227	1	Plutonium-238	0.022	6	6	0.073	3.21	NoAB
227	1	Plutonium-239/240	0.102	6	6	0.025	3.15	NoA
227	1	Technetium-99	152	8	8	2.5	101	Yes
227	1	Thorium-228	0.97	6	6	1.6		NoB
227	1	Thorium-230	1.21	6	6	1.5	4.1	NoAB
227	1	Thorium-232	0.92	6	6	1.5		NoB
227	1	Uranium-234	48.1	6	6	1.2	5.47	Yes
227	1	Uranium-235	4.7	6	6	0.06	0.122	Yes

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A = <Child Resident NAL C = no NAL available
B = <Background E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
227	1	Uranium-238	146	6	6	1.2	0.517	Yes
227	2	Aluminum	7650	6	6	13000	4410	NoB
227	2	Arsenic	9.55	17	3	12	0.238	NoB
227	2	Barium	160	6	6	200	140	NoB
227	2	Benzo(ghi)perylene	0.066	6	1			NoC
227	2	Beryllium	0.7	6	1	0.67	0.00567	Yes
227	2	Cadmium	0.63	6	1	0.21	0.811	NoA
227	2	Calcium	136000	6	6	200000		NoB
227	2	Chromium	56.31	17	10	16	15.6	Yes
227	2	Cobalt	14.8	6	6	14	1.37	Yes
227	2	Copper	62.27	17	8	19	184	NoA
227	2	Fluoranthene	1.2	5	3		109	NoA
227	2	Iron	17000	17	17	28000	3220	NoB
227	2	Lead	98.7	17	12	36	400	NoA
227	2	Magnesium	4920	6	6	7700		NoB
227	2	Manganese	1150	17	17	1500	419	NoB
227	2	Mercury	8.41	17	1	0.2	0.213	Yes
227	2	Molybdenum	5.21	16	2		23	NoA
227	2	Nickel	192.4	17	14	21	10.4	Yes
227	2	PCB, Total	12.6	61	37		0.0648	Yes
227	2	Phenanthrene	0.64	6	2			NoC
227	2	Pyrene	0.83	6	3		81.2	NoA
227	2	Selenium	1.1	17	1	0.8	23	NoA
227	2	Silver	0.2	17	1	2.3	2.61	NoAB
227	2	Sodium	199	5	2	320		NoB
227	2	Total PAH	0.11568	6	2		0.0197	Yes
227	2	Uranium	15.05	17	10	4.9	13.8	Yes
227	2	Vanadium	27.8	6	6	38	0.0365	NoB
227	2	Zinc	198.95	17	17	65	1380	NoA
227	2	Alpha activity	28	1	1			NoC
227	2	Americium-241	0.0422	6	6		1.5	NoA
227	2	Beta activity	31.8	1	1			NoC
227	2	Cesium-137	0.123	6	6	0.49	0.0267	NoB
227	2	Cobalt-60	0.0347	5	5		0.00547	Yes
227	2	Neptunium-237	0.085	6	6	0.1	0.0839	NoB
227	2	Plutonium-238	0.0136	5	5	0.073	3.21	NoAB
227	2	Plutonium-239/240	0.027	6	6	0.025	3.15	NoA
227	2	Technetium-99	7.08	6	6	2.5	101	NoA
227	2	Thorium-228	0.605	6	6	1.6		NoB
227	2	Thorium-230	0.91	6	6	1.5	4.1	NoAB
227	2	Thorium-232	0.639	6	6	1.5		NoB
227	2	Uranium-234	1.4	6	6	1.2	5.47	NoA
227	2	Uranium-235	0.0668	6	6	0.06	0.122	NoA
227	2	Uranium-238	2.45	6	6	1.2	0.517	Yes
228	1	Aluminum	3120	1	1	13000	4410	NoAB
228	1	Antimony	0.63	1	1	0.21	0.552	Yes
228	1	Arsenic	11.55	11	3	12	0.238	NoB
228	1	Barium	109	1	1	200	140	NoAB
228	1	Benzo(ghi)perylene	0.045	1	1			NoC
228	1	Beryllium	0.19	1	1	0.67	0.00567	NoB
228	1	Cadmium	3.9	1	1	0.21	0.811	Yes
228	1	Calcium	268000	1	1	200000		NoE
228	1	Chromium	188.9	11	3	16	15.6	Yes
228	1	Cobalt	2.5	1	1	14	1.37	NoB
228	1	Copper	97.99	11	2	19	184	NoA
228	1	Fluoranthene	0.07	1	1		109	NoA
228	1	Iron	13722.35	11	11	28000	3220	NoB
228	1	Lead	60.85	11	11	36	400	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
228	1	Magnesium	11000	1	1	7700		NoE
228	1	Manganese	448.79	11	11	1500	419	NoB
228	1	Mercury	9.37	11	2	0.2	0.213	Yes
228	1	Molybdenum	1.2	11	1		23	NoA
228	1	Nickel	79.16	11	4	21	10.4	Yes
228	1	Pyrene	0.065	1	1		81.2	NoA
228	1	Selenium	3.97	11	2	0.8	23	NoA
228	1	Silver	11.63	11	2	2.3	2.61	Yes
228	1	Sodium	140	1	1	320		NoB
228	1	Thallium	0.085	1	1	0.21	0.368	NoAB
228	1	Total PAH	0.066874	1	1		0.0197	Yes
228	1	Uranium	15.13	12	3	4.9	13.8	Yes
228	1	Vanadium	7.2	1	1	38	0.0365	NoB
228	1	Zinc	191.11	11	11	65	1380	NoA
228	1	Alpha activity	43.5	2	2			NoC
228	1	Americium-241	0.097	2	2		1.5	NoA
228	1	Beta activity	102	2	2			NoC
228	1	Cesium-137	0.004	2	2	0.49	0.0267	NoAB
228	1	Neptunium-237	0.8	2	2	0.1	0.0839	Yes
228	1	Plutonium-238	0.023	2	2	0.073	3.21	NoAB
228	1	Plutonium-239/240	0.604	2	2	0.025	3.15	NoA
228	1	Technetium-99	18.8	2	2	2.5	101	NoA
228	1	Thorium-228	0.228	2	2	1.6		NoB
228	1	Thorium-230	3.18	2	2	1.5	4.1	NoA
228	1	Thorium-232	0.22	2	2	1.5		NoB
228	1	Uranium-234	2.91	2	2	1.2	5.47	NoA
228	1	Uranium-235	0.178	2	2	0.06	0.122	Yes
228	1	Uranium-238	3.77	2	2	1.2	0.517	Yes
229	1	Aluminum	3600	1	1	13000	4410	NoAB
229	1	Arsenic	11.66	10	7	12	0.238	NoB
229	1	Barium	61.6	1	1	200	140	NoAB
229	1	Benzo(ghi)perylene	0.088	1	1			NoC
229	1	Beryllium	0.24	1	1	0.67	0.00567	NoB
229	1	Cadmium	0.36	1	1	0.21	0.811	NoA
229	1	Calcium	238000	1	1	200000		NoE
229	1	Chromium	8.2	10	1	16	15.6	NoAB
229	1	Cobalt	4.3	1	1	14	1.37	NoB
229	1	Copper	6	10	1	19	184	NoAB
229	1	Fluoranthene	0.29	1	1		109	NoA
229	1	Iron	17336.5	10	10	28000	3220	NoB
229	1	Lead	27.24	10	9	36	400	NoAB
229	1	Magnesium	6990	1	1	7700		NoB
229	1	Manganese	538.61	10	10	1500	419	NoB
229	1	Mercury	0.0906	10	1	0.2	0.213	NoAB
229	1	Molybdenum	0.25	10	1		23	NoA
229	1	Nickel	91.37	10	4	21	10.4	Yes
229	1	Phenanthrene	0.041	1	1			NoC
229	1	Pyrene	0.25	1	1		81.2	NoA
229	1	Selenium	0.91	10	1	0.8	23	NoA
229	1	Silver	0.025	10	1	2.3	2.61	NoAB
229	1	Sodium	132	1	1	320		NoB
229	1	Total PAH	0.15679	1	1		0.0197	Yes
229	1	Uranium	155.81	10	9	4.9	13.8	Yes
229	1	Vanadium	12.2	1	1	38	0.0365	NoB
229	1	Zinc	832.98	10	10	65	1380	NoA
229	1	Alpha activity	19	1	1			NoC
229	1	Americium-241	0.0008	1	1		1.5	NoA
229	1	Beta activity	43.8	1	1			NoC

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
229	1	Cesium-137	0.111	1	1	0.49	0.0267	NoB
229	1	Plutonium-238	0.019	1	1	0.073	3.21	NoAB
229	1	Plutonium-239/240	0.01	1	1	0.025	3.15	NoAB
229	1	Technetium-99	7.73	1	1	2.5	101	NoA
229	1	Thorium-228	0.625	1	1	1.6		NoB
229	1	Thorium-230	0.668	1	1	1.5	4.1	NoAB
229	1	Thorium-232	0.573	1	1	1.5		NoB
229	1	Uranium-234	2.62	1	1	1.2	5.47	NoA
229	1	Uranium-235	0.112	1	1	0.06	0.122	NoA
229	1	Uranium-238	2.86	1	1	1.2	0.517	Yes
229	2	2-Methylnaphthalene	0.21	1	1			NoC
229	2	Acenaphthene	0.24	1	1		117	NoA
229	2	Aluminum	6210	1	1	13000	4410	NoB
229	2	Anthracene	0.37	1	1		747	NoA
229	2	Arsenic	21.2	9	4	12	0.238	Yes
229	2	Barium	97.7	1	1	200	140	NoAB
229	2	Benzo(ghi)perylene	0.79	1	1			NoC
229	2	Beryllium	0.79	1	1	0.67	0.00567	Yes
229	2	Cadmium	0.31	1	1	0.21	0.811	NoA
229	2	Calcium	193000	1	1	200000		NoB
229	2	Chromium	29.14	9	2	16	15.6	Yes
229	2	Cobalt	7.7	1	1	14	1.37	NoB
229	2	Copper	51.93	9	2	19	184	NoA
229	2	Dibenzofuran	0.3	1	1			NoC
229	2	Fluoranthene	5.1	1	1		109	NoA
229	2	Fluorene	0.27	1	1		91.5	NoA
229	2	Iron	27400	9	9	28000	3220	NoB
229	2	Lead	22.53	9	9	36	400	NoAB
229	2	Magnesium	7270	1	1	7700		NoB
229	2	Manganese	681	9	9	1500	419	NoB
229	2	Mercury	0.172	9	1	0.2	0.213	NoAB
229	2	Molybdenum	1	9	1		23	NoA
229	2	Naphthalene	0.09	1	1		1.15	NoA
229	2	Nickel	99.25	9	5	21	10.4	Yes
229	2	Phenanthrene	4.8	1	1			NoC
229	2	Pyrene	4	1	1		81.2	NoA
229	2	Selenium	1.1	9	1	0.8	23	NoA
229	2	Silver	0.036	9	1	2.3	2.61	NoAB
229	2	Sodium	113	1	1	320		NoB
229	2	Total PAH	1.6949	1	1		0.0197	Yes
229	2	Uranium	74.5	11	5	4.9	13.8	Yes
229	2	Vanadium	31.3	1	1	38	0.0365	NoB
229	2	Zinc	182.63	9	9	65	1380	NoA
229	2	Alpha activity	70	3	3			NoC
229	2	Americium-241	0.074	3	3		1.5	NoA
229	2	Beta activity	127	3	3			NoC
229	2	Cesium-137	0.321	3	3	0.49	0.0267	NoB
229	2	Neptunium-237	0.287	3	3	0.1	0.0839	Yes
229	2	Plutonium-238	0.024	3	3	0.073	3.21	NoAB
229	2	Plutonium-239/240	0.269	3	3	0.025	3.15	NoA
229	2	Technetium-99	43.4	3	3	2.5	101	NoA
229	2	Thorium-228	0.613	3	3	1.6		NoB
229	2	Thorium-230	2.42	3	3	1.5	4.1	NoA
229	2	Thorium-232	0.647	3	3	1.5		NoB
229	2	Uranium-234	12.2	3	3	1.2	5.47	Yes
229	2	Uranium-235	0.84	3	3	0.06	0.122	Yes
229	2	Uranium-238	24.9	3	3	1.2	0.517	Yes
26	1	Acetone	0.19	1	1			NoC

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
26	1	Aluminum	7040	3	3	13000	4410	NoB
26	1	Arsenic	19.7	6	2	12	0.238	Yes
26	1	Barium	71.8	6	6	200	140	NoAB
26	1	Beryllium	0.861	3	2	0.67	0.00567	Yes
26	1	Cadmium	3.27	6	2	0.21	0.811	Yes
26	1	Calcium	9320	3	3	200000		NoB
26	1	Chromium	41.7	6	6	16	15.6	Yes
26	1	Cobalt	7.29	3	3	14	1.37	NoB
26	1	Copper	30.2	3	3	19	184	NoA
26	1	Iron	24300	3	3	28000	3220	NoB
26	1	Lead	27.4	6	2	36	400	NoAB
26	1	Magnesium	1320	3	3	7700		NoB
26	1	Manganese	324	3	3	1500	419	NoAB
26	1	Mercury	0.23	6	1	0.2	0.213	Yes
26	1	Nickel	30.6	3	3	21	10.4	Yes
26	1	PCB, Total	2.53	23	14		0.0648	Yes
26	1	Total PAH	0.05	3	1		0.0197	Yes
26	1	Uranium	175	2	2	4.9	13.8	Yes
26	1	Vanadium	33.8	3	3	38	0.0365	NoB
26	1	Zinc	90.4	3	3	65	1380	NoA
26	1	Americium-241	0.989	8	8		1.5	NoA
26	1	Cesium-137	10.8	9	9	0.49	0.0267	Yes
26	1	Cobalt-60	0.0165	8	8		0.00547	Yes
26	1	Neptunium-237	0.792	8	8	0.1	0.0839	Yes
26	1	Plutonium-238	0.232	8	8	0.073	3.21	NoA
26	1	Plutonium-239/240	14.1	8	8	0.025	3.15	Yes
26	1	Technetium-99	26.6	8	8	2.5	101	NoA
26	1	Thorium-228	0.793	8	8	1.6		NoB
26	1	Thorium-230	9.69	8	8	1.5	4.1	Yes
26	1	Thorium-232	0.809	9	9	1.5		NoB
26	1	Uranium-234	12.2	8	8	1.2	5.47	Yes
26	1	Uranium-235	1.96	8	8	0.06	0.122	Yes
26	1	Uranium-238	108	8	8	1.2	0.517	Yes
26	2	1,1,1-Trichloroethane	0.0012	3	1			NoC
26	2	1,2,4-Trichlorobenzene	0.0039	1	1			NoC
26	2	1,2-Dichlorobenzene	0.0026	1	1			NoC
26	2	1,2-Dimethylbenzene	0.00086	1	1		53.5	NoA
26	2	1,3-Dichlorobenzene	0.0028	1	1			NoC
26	2	1,4-Dichlorobenzene	0.0037	1	1			NoC
26	2	Aluminum	34600	3	3	13000	4410	Yes
26	2	Arsenic	81.4	3	3	12	0.238	Yes
26	2	Barium	213	3	3	200	140	Yes
26	2	Benzene	0.00063	1	1		0.333	NoA
26	2	Beryllium	15.7	3	2	0.67	0.00567	Yes
26	2	Cadmium	2.5	3	2	0.21	0.811	Yes
26	2	Calcium	18400	3	3	200000		NoB
26	2	Carbon disulfide	0.00098	1	1			NoC
26	2	Chromium	59.9	3	3	16	15.6	Yes
26	2	Cobalt	90.5	3	3	14	1.37	Yes
26	2	Copper	220	3	3	19	184	Yes
26	2	Ethylbenzene	0.001	1	1		1.58	NoA
26	2	Iron	85100	3	3	28000	3220	Yes
26	2	Lead	39.2	3	3	36	400	NoA
26	2	m,p-Xylene	0.0019	1	1		7.96	NoA
26	2	Magnesium	1290	3	3	7700		NoB
26	2	Manganese	942	3	3	1500	419	NoB
26	2	Mercury	0.18	3	2	0.2	0.213	NoAB
26	2	Methylene chloride	0.062	1	1			NoC

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
26	2	Molybdenum	9.4	3	2		23	NoA
26	2	Naphthalene	0.0048	5	1		1.15	NoA
26	2	Nickel	188	3	3	21	10.4	Yes
26	2	PCB, Total	6.08	18	17		0.0648	Yes
26	2	Phenanthrene	1.01	4	2			NoC
26	2	Selenium	13.6	3	1	0.8	23	NoA
26	2	Sodium	354	3	3	320		NoE
26	2	Styrene	0.00099	1	1			NoC
26	2	Thallium	13.9	3	1	0.21	0.368	Yes
26	2	Trichloroethene	0.0034	3	1		0.0234	NoA
26	2	Uranium	1050	3	3	4.9	13.8	Yes
26	2	Vanadium	40.8	3	3	38	0.0365	Yes
26	2	Zinc	800	3	3	65	1380	NoA
26	2	Americium-241	0.248	7	7		1.5	NoA
26	2	Cesium-137	11.2	7	7	0.49	0.0267	Yes
26	2	Cobalt-60	0.00473	5	5		0.00547	NoA
26	2	Neptunium-237	1.88	7	7	0.1	0.0839	Yes
26	2	Plutonium-238	0.069	7	7	0.073	3.21	NoAB
26	2	Plutonium-239/240	2.42	7	7	0.025	3.15	NoA
26	2	Technetium-99	44.5	7	7	2.5	101	NoA
26	2	Thorium-228	2.21	7	7	1.6		NoC
26	2	Thorium-230	37.6	7	7	1.5	4.1	Yes
26	2	Thorium-232	2.03	7	7	1.5		NoC
26	2	Uranium-234	27.5	7	7	1.2	5.47	Yes
26	2	Uranium-235	3.3	7	7	0.06	0.122	Yes
26	2	Uranium-238	73.6	7	7	1.2	0.517	Yes
26	3	2-Methylnaphthalene	6.6	3	2			NoC
26	3	Acenaphthene	0.05	11	1		117	NoA
26	3	Acetone	0.0093	7	1			NoC
26	3	Aluminum	14000	10	10	13000	4410	Yes
26	3	Anthracene	0.63	11	2		747	NoA
26	3	Antimony	1.4	10	1	0.21	0.552	Yes
26	3	Arsenic	130.36	18	13	12	0.238	Yes
26	3	Barium	815.02	18	18	200	140	Yes
26	3	Benzo(ghi)perylene	0.58	11	2			NoC
26	3	Beryllium	6.75	10	10	0.67	0.00567	Yes
26	3	Cadmium	2.34	18	2	0.21	0.811	Yes
26	3	Calcium	83000	5	5	200000		NoB
26	3	Chromium	66.62	18	18	16	15.6	Yes
26	3	cis-1,2-Dichloroethene	0.00059	1	1		1.05	NoA
26	3	Cobalt	23.8	5	5	14	1.37	Yes
26	3	Copper	116	10	10	19	184	NoA
26	3	Fluoranthene	5.98	9	4		109	NoA
26	3	Fluorene	0.05	11	1		91.5	NoA
26	3	Iron	17600	10	10	28000	3220	NoB
26	3	Lead	51.53	18	7	36	400	NoA
26	3	Magnesium	4410	5	5	7700		NoB
26	3	Manganese	573	10	10	1500	419	NoB
26	3	Mercury	0.9	18	7	0.2	0.213	Yes
26	3	Methylene chloride	0.0045	7	1			NoC
26	3	Molybdenum	0.67	2	1		23	NoA
26	3	Naphthalene	4.1	11	4		1.15	Yes
26	3	Nickel	39.2	18	18	21	10.4	Yes
26	3	PCB, Total	11	67	11		0.0648	Yes
26	3	Phenanthrene	4.32	11	5			NoC
26	3	Pyrene	5.66	11	5		81.2	NoA
26	3	Selenium	12.5	18	9	0.8	23	NoA
26	3	Silver	83.3	18	8	2.3	2.61	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
26	3	Sodium	333	3	3	320		NoE
26	3	Thallium	0.6	14	2	0.21	0.368	Yes
26	3	Toluene	0.21	7	2			NoC
26	3	Total PAH	2.14542	12	4		0.0197	Yes
26	3	Trichloroethene	0.0013	8	1		0.0234	NoA
26	3	Uranium	187	11	7	4.9	13.8	Yes
26	3	Vanadium	106	10	10	38	0.0365	Yes
26	3	Zinc	122	5	5	65	1380	NoA
26	3	Americium-241	0.155	8	8		1.5	NoA
26	3	Cesium-137	2.13	8	8	0.49	0.0267	Yes
26	3	Cobalt-60	0.00314	3	3		0.00547	NoA
26	3	Neptunium-237	1.58	10	10	0.1	0.0839	Yes
26	3	Plutonium-238	0.0122	3	3	0.073	3.21	NoAB
26	3	Plutonium-239	0.39	2	2	0.025	3.15	NoA
26	3	Plutonium-239/240	1.01	8	8	0.025	3.15	NoA
26	3	Technetium-99	182	10	10	2.5	101	Yes
26	3	Thorium-228	0.515	3	3	1.6		NoB
26	3	Thorium-230	15.9	10	10	1.5	4.1	Yes
26	3	Thorium-232	0.456	3	3	1.5		NoB
26	3	Uranium-234	140	10	10	1.2	5.47	Yes
26	3	Uranium-235	4.7	10	10	0.06	0.122	Yes
26	3	Uranium-238	150	10	10	1.2	0.517	Yes
26	4	Acetone	0.013	6	3			NoC
26	4	Aluminum	13100	10	10	13000	4410	Yes
26	4	Antimony	0.6	10	1	0.21	0.552	Yes
26	4	Arsenic	10.1	10	2	12	0.238	NoB
26	4	Barium	158	10	10	200	140	NoB
26	4	Beryllium	1.02	13	8	0.67	0.00567	Yes
26	4	Bis(2-ethylhexyl)phthalate	0.08	4	1			NoC
26	4	Cadmium	2.43	10	3	0.21	0.811	Yes
26	4	Calcium	29100	4	4	200000		NoB
26	4	Chromium	231	13	13	16	15.6	Yes
26	4	cis-1,2-Dichloroethene	0.00031	3	1		1.05	NoA
26	4	Cobalt	8.86	4	4	14	1.37	NoB
26	4	Copper	414	10	10	19	184	Yes
26	4	Di-n-butyl phthalate	0.04	1	1			NoC
26	4	Fluoranthene	0.065	10	3		109	NoA
26	4	Iron	21300	10	10	28000	3220	NoB
26	4	Lead	411	10	3	36	400	Yes
26	4	Magnesium	1950	4	4	7700		NoB
26	4	Manganese	1200	10	10	1500	419	NoB
26	4	Mercury	12.4	13	6	0.2	0.213	Yes
26	4	Nickel	255	10	10	21	10.4	Yes
26	4	PCB, Total	1.9	57	9		0.0648	Yes
26	4	Phenanthrene	0.87	13	1			NoC
26	4	Pyrene	1.6	13	3		81.2	NoA
26	4	Selenium	0.3	10	1	0.8	23	NoAB
26	4	Silver	0.1	10	1	2.3	2.61	NoAB
26	4	Sodium	254	1	1	320		NoB
26	4	Toluene	0.00085	6	1			NoC
26	4	Total PAH	0.028322	13	1		0.0197	Yes
26	4	Uranium	3100	13	11	4.9	13.8	Yes
26	4	Vanadium	36.1	10	10	38	0.0365	NoB
26	4	Zinc	76.5	4	4	65	1380	NoA
26	4	Alpha activity	872	1	1			NoC
26	4	Americium-241	2.93	13	13		1.5	Yes
26	4	Beta activity	2040	1	1			NoC

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
26	4	Cesium-137	1.69	13	13	0.49	0.0267	Yes
26	4	Cobalt-60	0.0116	6	6		0.00547	Yes
26	4	Neptunium-237	55	13	13	0.1	0.0839	Yes
26	4	Plutonium-238	0.39	7	7	0.073	3.21	NoA
26	4	Plutonium-239/240	15.9	13	13	0.025	3.15	Yes
26	4	Technetium-99	1870	11	11	2.5	101	Yes
26	4	Thorium-228	1.054	7	7	1.6		NoB
26	4	Thorium-230	111	13	13	1.5	4.1	Yes
26	4	Thorium-232	1.47	7	7	1.5		NoB
26	4	Uranium-234	437	13	13	1.2	5.47	Yes
26	4	Uranium-235	31.9	13	13	0.06	0.122	Yes
26	4	Uranium-238	1040	13	13	1.2	0.517	Yes
47	1	2-Methylnaphthalene	0.9	10	1			NoC
47	1	Acenaphthene	7.074	10	4		117	NoA
47	1	Aluminum	15000	11	11	13000	4410	Yes
47	1	Anthracene	84.314	10	7		747	NoA
47	1	Antimony	0.9	11	5	0.21	0.552	Yes
47	1	Arsenic	45.2	12	12	12	0.238	Yes
47	1	Barium	127	11	11	200	140	NoAB
47	1	Benzo(ghi)perylene	8.838	10	6			NoC
47	1	Beryllium	0.7	11	11	0.67	0.00567	Yes
47	1	Bis(2-ethylhexyl)phthalate	7	10	2			NoC
47	1	Cadmium	4.25	11	9	0.21	0.811	Yes
47	1	Calcium	110000	11	11	200000		NoB
47	1	Chromium	53.9	12	11	16	15.6	Yes
47	1	Cobalt	14.3	11	11	14	1.37	Yes
47	1	Copper	27.9	12	11	19	184	NoA
47	1	Dibenzofuran	3.6	10	4			NoC
47	1	Di-n-butyl phthalate	0.205	10	1			NoC
47	1	Fluoranthene	96.773	10	9		109	NoA
47	1	Fluorene	4.539	10	4		91.5	NoA
47	1	Iron	29500	12	12	28000	3220	Yes
47	1	Lead	48.86	12	12	36	400	NoA
47	1	Magnesium	4170	11	11	7700		NoB
47	1	Manganese	538	12	12	1500	419	NoB
47	1	Mercury	0.0676	12	10	0.2	0.213	NoAB
47	1	Molybdenum	1.7	2	1		23	NoA
47	1	Naphthalene	1.9	10	4		1.15	Yes
47	1	Nickel	82.5	12	11	21	10.4	Yes
47	1	PCB, Total	0.96	11	4		0.0648	Yes
47	1	Phenanthrene	77.492	10	9			NoC
47	1	Pyrene	110.585	10	9		81.2	Yes
47	1	Selenium	0.89	12	3	0.8	23	NoA
47	1	Silver	0.79	12	3	2.3	2.61	NoAB
47	1	Sodium	681	11	11	320		NoE
47	1	Thallium	0.14	11	1	0.21	0.368	NoAB
47	1	Total PAH	54.072342	10	9		0.0197	Yes
47	1	Uranium	32.32	2	2	4.9	13.8	Yes
47	1	Vanadium	33.4	11	11	38	0.0365	NoB
47	1	Zinc	171.54	12	12	65	1380	NoA
47	1	Alpha activity	193	1	1			NoC
47	1	Americium-241	0.675	1	1		1.5	NoA
47	1	Beta activity	267	1	1			NoC
47	1	Cesium-137	0.117	1	1	0.49	0.0267	NoB
47	1	Neptunium-237	0.115	1	1	0.1	0.0839	Yes
47	1	Plutonium-238	0.073	1	1	0.073	3.21	NoA
47	1	Plutonium-239/240	4.11	1	1	0.025	3.15	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
47	1	Technetium-99	69.7	1	1	2.5	101	NoA
47	1	Thorium-228	0.77	1	1	1.6		NoB
47	1	Thorium-230	41.1	1	1	1.5	4.1	Yes
47	1	Thorium-232	0.86	1	1	1.5		NoB
47	1	Uranium-234	6.85	1	1	1.2	5.47	Yes
47	1	Uranium-235	0.5	1	1	0.06	0.122	Yes
47	1	Uranium-238	7.93	1	1	1.2	0.517	Yes
483	1	Aluminum	4960	1	1	13000	4410	NoB
483	1	Antimony	0.23	1	1	0.21	0.552	NoA
483	1	Arsenic	9.67	6	3	12	0.238	NoB
483	1	Barium	55.2	1	1	200	140	NoAB
483	1	Beryllium	0.35	1	1	0.67	0.00567	NoB
483	1	Cadmium	0.78	1	1	0.21	0.811	NoA
483	1	Calcium	134000	1	1	200000		NoB
483	1	Chromium	15.4	6	1	16	15.6	NoAB
483	1	Cobalt	5.2	1	1	14	1.37	NoB
483	1	Copper	6.8	6	1	19	184	NoAB
483	1	Iron	13542.3	6	6	28000	3220	NoB
483	1	Lead	8.5	6	4	36	400	NoAB
483	1	Magnesium	6730	1	1	7700		NoB
483	1	Manganese	668.04	6	6	1500	419	NoB
483	1	Mercury	0.0258	6	1	0.2	0.213	NoAB
483	1	Molybdenum	0.68	6	1		23	NoA
483	1	Nickel	116.56	6	3	21	10.4	Yes
483	1	Selenium	4.23	6	2	0.8	23	NoA
483	1	Silver	11.19	6	1	2.3	2.61	Yes
483	1	Sodium	125	1	1	320		NoB
483	1	Thallium	0.068	1	1	0.21	0.368	NoAB
483	1	Total PAH	0.0239	1	1		0.0197	Yes
483	1	Uranium	9.38	6	2	4.9	13.8	NoA
483	1	Vanadium	17.3	1	1	38	0.0365	NoB
483	1	Zinc	181.13	6	6	65	1380	NoA
483	1	Alpha activity	24	1	1			NoC
483	1	Americium-241	0.0038	1	1		1.5	NoA
483	1	Beta activity	18.2	1	1			NoC
483	1	Cesium-137	-0.004	1	1	0.49	0.0267	NoAB
483	1	Neptunium-237	0.007	1	1	0.1	0.0839	NoAB
483	1	Plutonium-238	0.0062	1	1	0.073	3.21	NoAB
483	1	Plutonium-239/240	0.008	1	1	0.025	3.15	NoAB
483	1	Technetium-99	-0.05	1	1	2.5	101	NoAB
483	1	Thorium-228	0.342	1	1	1.6		NoB
483	1	Thorium-230	0.65	1	1	1.5	4.1	NoAB
483	1	Thorium-232	0.352	1	1	1.5		NoB
483	1	Uranium-234	0.82	1	1	1.2	5.47	NoAB
483	1	Uranium-235	0.03	1	1	0.06	0.122	NoAB
483	1	Uranium-238	0.93	1	1	1.2	0.517	NoB
486	1	Uranium	2.96	1	1	4.9	13.8	NoAB
486	1	Alpha activity	30.9	1	1			NoC
486	1	Americium-241	0.014	1	1		1.5	NoA
486	1	Beta activity	29.5	1	1			NoC
486	1	Cesium-137	1.71	1	1	0.49	0.0267	Yes
486	1	Neptunium-237	0.0045	1	1	0.1	0.0839	NoAB
486	1	Plutonium-238	0.01	1	1	0.073	3.21	NoAB
486	1	Plutonium-239/240	0.033	1	1	0.025	3.15	NoA
486	1	Technetium-99	0.05	1	1	2.5	101	NoAB
486	1	Thorium-228	0.674	1	1	1.6		NoB
486	1	Thorium-230	0.83	1	1	1.5	4.1	NoAB
486	1	Thorium-232	0.76	1	1	1.5		NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
486	1	Uranium-234	0.9	1	1	1.2	5.47	NoAB
486	1	Uranium-235	0.082	1	1	0.06	0.122	NoA
486	1	Uranium-238	0.98	1	1	1.2	0.517	NoB
487	1	Uranium	2.05	1	1	4.9	13.8	NoAB
487	1	Alpha activity	36.5	1	1			NoC
487	1	Americium-241	0.019	1	1		1.5	NoA
487	1	Beta activity	35.5	1	1			NoC
487	1	Cesium-137	1.38	1	1	0.49	0.0267	Yes
487	1	Neptunium-237	-0.0049	1	1	0.1	0.0839	NoAB
487	1	Plutonium-238	0.018	1	1	0.073	3.21	NoAB
487	1	Plutonium-239/240	0.042	1	1	0.025	3.15	NoA
487	1	Technetium-99	0.03	1	1	2.5	101	NoAB
487	1	Thorium-228	0.448	1	1	1.6		NoB
487	1	Thorium-230	0.531	1	1	1.5	4.1	NoAB
487	1	Thorium-232	0.379	1	1	1.5		NoB
487	1	Uranium-234	0.508	1	1	1.2	5.47	NoAB
487	1	Uranium-235	0.033	1	1	0.06	0.122	NoAB
487	1	Uranium-238	0.68	1	1	1.2	0.517	NoB
488	1	Acenaphthene	0.041	1	1		117	NoA
488	1	Aluminum	7410	1	1	13000	4410	NoB
488	1	Anthracene	0.066	1	1		747	NoA
488	1	Antimony	0.31	1	1	0.21	0.552	NoA
488	1	Arsenic	8.89	5	2	12	0.238	NoB
488	1	Barium	99.3	1	1	200	140	NoAB
488	1	Benzo(ghi)perylene	0.09	1	1			NoC
488	1	Beryllium	0.52	1	1	0.67	0.00567	NoB
488	1	Bis(2-ethylhexyl)phthalate	0.17	1	1			NoC
488	1	Cadmium	0.18	1	1	0.21	0.811	NoAB
488	1	Calcium	3110	1	1	200000		NoB
488	1	Chromium	14.1	5	1	16	15.6	NoAB
488	1	Cobalt	5	1	1	14	1.37	NoB
488	1	Copper	10.6	5	1	19	184	NoAB
488	1	Fluoranthene	0.47	1	1		109	NoA
488	1	Iron	12700	5	5	28000	3220	NoB
488	1	Lead	27.43	5	4	36	400	NoAB
488	1	Magnesium	1020	1	1	7700		NoB
488	1	Manganese	364.29	5	5	1500	419	NoAB
488	1	Mercury	0.0503	5	1	0.2	0.213	NoAB
488	1	Molybdenum	0.55	5	1		23	NoA
488	1	Nickel	11.9	5	1	21	10.4	NoB
488	1	PCB, Total	10.3	5	1		0.0648	Yes
488	1	Phenanthrene	0.33	1	1			NoC
488	1	Pyrene	0.39	1	1		81.2	NoA
488	1	Selenium	1.6	5	1	0.8	23	NoA
488	1	Silver	0.085	5	1	2.3	2.61	NoAB
488	1	Sodium	30.5	1	1	320		NoB
488	1	Thallium	0.22	1	1	0.21	0.368	NoA
488	1	Total PAH	0.24975	1	1		0.0197	Yes
488	1	Uranium	14.8	6	3	4.9	13.8	Yes
488	1	Vanadium	24.7	1	1	38	0.0365	NoB
488	1	Zinc	46.26	5	5	65	1380	NoAB
488	1	Alpha activity	39.9	2	2			NoC
488	1	Americium-241	0.025	2	2		1.5	NoA
488	1	Beta activity	35.1	2	2			NoC
488	1	Cesium-137	0.52	2	2	0.49	0.0267	Yes
488	1	Neptunium-237	0.071	2	2	0.1	0.0839	NoAB
488	1	Plutonium-238	0.024	2	2	0.073	3.21	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
488	1	Plutonium-239/240	0.062	2	2	0.025	3.15	NoA
488	1	Technetium-99	1.66	2	2	2.5	101	NoAB
488	1	Thorium-228	0.88	2	2	1.6		NoB
488	1	Thorium-230	1.47	2	2	1.5	4.1	NoAB
488	1	Thorium-232	0.87	2	2	1.5		NoB
488	1	Uranium-234	2.84	2	2	1.2	5.47	NoA
488	1	Uranium-235	0.149	2	2	0.06	0.122	Yes
488	1	Uranium-238	4.54	2	2	1.2	0.517	Yes
489	1	Aluminum	7080	1	1	13000	4410	NoB
489	1	Antimony	0.27	1	1	0.21	0.552	NoA
489	1	Arsenic	6.86	2	2	12	0.238	NoB
489	1	Barium	100	1	1	200	140	NoAB
489	1	Beryllium	0.44	1	1	0.67	0.00567	NoB
489	1	Cadmium	0.085	1	1	0.21	0.811	NoAB
489	1	Calcium	12700	1	1	200000		NoB
489	1	Chromium	41.63	2	1	16	15.6	Yes
489	1	Cobalt	6.5	1	1	14	1.37	NoB
489	1	Copper	9.5	2	1	19	184	NoAB
489	1	Fluoranthene	0.14	1	1		109	NoA
489	1	Iron	12600	2	2	28000	3220	NoB
489	1	Lead	13.9	2	2	36	400	NoAB
489	1	Magnesium	1330	1	1	7700		NoB
489	1	Manganese	383	2	2	1500	419	NoAB
489	1	Mercury	0.0339	2	1	0.2	0.213	NoAB
489	1	Methylene chloride	0.018	1	1			NoC
489	1	Molybdenum	0.5	2	1		23	NoA
489	1	Nickel	78.82	2	2	21	10.4	Yes
489	1	Phenanthrene	0.081	1	1			NoC
489	1	Pyrene	0.12	1	1		81.2	NoA
489	1	Selenium	1.4	2	1	0.8	23	NoA
489	1	Silver	0.041	2	1	2.3	2.61	NoAB
489	1	Sodium	227	1	1	320		NoB
489	1	Thallium	0.27	1	1	0.21	0.368	NoA
489	1	Total PAH	0.082183	1	1		0.0197	Yes
489	1	Uranium	4.41	2	1	4.9	13.8	NoAB
489	1	Vanadium	23.5	1	1	38	0.0365	NoB
489	1	Zinc	44.3	2	2	65	1380	NoAB
489	1	Alpha activity	30.1	1	1			NoC
489	1	Americium-241	0.011	1	1		1.5	NoA
489	1	Beta activity	30.7	1	1			NoC
489	1	Cesium-137	0.032	1	1	0.49	0.0267	NoB
489	1	Neptunium-237	0.007	1	1	0.1	0.0839	NoAB
489	1	Plutonium-238	0.01	1	1	0.073	3.21	NoAB
489	1	Plutonium-239/240	0.011	1	1	0.025	3.15	NoAB
489	1	Technetium-99	0.28	1	1	2.5	101	NoAB
489	1	Thorium-228	0.88	1	1	1.6		NoB
489	1	Thorium-230	0.95	1	1	1.5	4.1	NoAB
489	1	Thorium-232	0.99	1	1	1.5		NoB
489	1	Uranium-234	1.26	1	1	1.2	5.47	NoA
489	1	Uranium-235	0.084	1	1	0.06	0.122	NoA
489	1	Uranium-238	1.47	1	1	1.2	0.517	Yes
492	1	Aluminum	9920	6	6	13000	4410	NoB
492	1	Arsenic	14.7	6	6	12	0.238	Yes
492	1	Barium	102	6	6	200	140	NoAB
492	1	Beryllium	10.4	6	5	0.67	0.00567	Yes
492	1	Cadmium	3.14	6	5	0.21	0.811	Yes
492	1	Calcium	2110	6	6	200000		NoB
492	1	Chromium	1040	11	6	16	15.6	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
492	1	Cobalt	10.7	6	6	14	1.37	NoB
492	1	Copper	84.7	6	6	19	184	NoA
492	1	Iron	16900	6	6	28000	3220	NoB
492	1	Lead	28	11	9	36	400	NoAB
492	1	Magnesium	1250	6	6	7700		NoB
492	1	Manganese	426	6	6	1500	419	NoB
492	1	Mercury	0.02	6	1	0.2	0.213	NoAB
492	1	Nickel	16.7	6	6	21	10.4	NoB
492	1	PCB, Total	44.1	11	3		0.0648	Yes
492	1	Selenium	0.65	3	2	0.8	23	NoAB
492	1	Sodium	297	6	2	320		NoB
492	1	Uranium	1770	10	5	4.9	13.8	Yes
492	1	Vanadium	43.2	6	6	38	0.0365	Yes
492	1	Zinc	662	6	6	65	1380	NoA
492	1	Alpha activity	37.3	1	1			NoC
492	1	Americium-241	0.739	5	5		1.5	NoA
492	1	Beta activity	34.1	1	1			NoC
492	1	Cesium-137	0.346	5	5	0.49	0.0267	NoB
492	1	Cobalt-60	0.00963	3	3		0.00547	Yes
492	1	Neptunium-237	0.209	5	5	0.1	0.0839	Yes
492	1	Plutonium-238	0.0336	5	5	0.073	3.21	NoAB
492	1	Plutonium-239/240	0.0531	5	5	0.025	3.15	NoA
492	1	Technetium-99	14	5	5	2.5	101	NoA
492	1	Thorium-228	0.738	5	5	1.6		NoB
492	1	Thorium-230	0.971	5	5	1.5	4.1	NoAB
492	1	Thorium-232	0.72	5	5	1.5		NoB
492	1	Uranium-234	53.9	5	5	1.2	5.47	Yes
492	1	Uranium-235	5.72	5	5	0.06	0.122	Yes
492	1	Uranium-238	383	5	5	1.2	0.517	Yes
493	1	Aluminum	14400	21	21	13000	4410	Yes
493	1	Antimony	0.31	21	1	0.21	0.552	NoA
493	1	Arsenic	11.8	22	12	12	0.238	NoB
493	1	Barium	404	21	21	200	140	Yes
493	1	Beryllium	0.991	21	10	0.67	0.00567	Yes
493	1	Cadmium	0.1	21	1	0.21	0.811	NoAB
493	1	Calcium	156000	21	21	200000		NoB
493	1	Chromium	66.1	22	21	16	15.6	Yes
493	1	Cobalt	37.9	21	20	14	1.37	Yes
493	1	Copper	98.7	22	21	19	184	NoA
493	1	Di-n-butyl phthalate	0.98	11	4			NoC
493	1	Iron	24100	22	22	28000	3220	NoB
493	1	Lead	47.9	22	4	36	400	NoA
493	1	Magnesium	8600	21	21	7700		NoE
493	1	Manganese	3550	22	22	1500	419	Yes
493	1	Mercury	0.26	22	2	0.2	0.213	Yes
493	1	Methylene chloride	0.032	13	1			NoC
493	1	Molybdenum	0.74	2	1		23	NoA
493	1	Nickel	213	22	21	21	10.4	Yes
493	1	PCB, Total	0.26	15	2		0.0648	Yes
493	1	Selenium	1.7	22	6	0.8	23	NoA
493	1	Silver	0.034	22	1	2.3	2.61	NoAB
493	1	Sodium	27.7	1	1	320		NoB
493	1	Thallium	0.34	21	1	0.21	0.368	NoA
493	1	Total PAH	0.5	14	13		0.0197	Yes
493	1	Uranium	10.7	23	3	4.9	13.8	NoA
493	1	Vanadium	40.5	21	21	38	0.0365	Yes
493	1	Zinc	75.9	22	20	65	1380	NoA
493	1	Alpha activity	28.3	2	2			NoC

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
493	1	Americium-241	0.0771	15	15		1.5	NoA
493	1	Beta activity	28.4	2	2			NoC
493	1	Cesium-137	0.292	15	15	0.49	0.0267	NoB
493	1	Cobalt-60	0.0136	13	13		0.00547	Yes
493	1	Neptunium-237	0.122	15	15	0.1	0.0839	Yes
493	1	Plutonium-238	0.022	15	15	0.073	3.21	NoAB
493	1	Plutonium-239/240	0.0431	15	15	0.025	3.15	NoA
493	1	Technetium-99	38.6	12	12	2.5	101	NoA
493	1	Thorium-228	0.99	15	15	1.6		NoB
493	1	Thorium-230	1.19	15	15	1.5	4.1	NoAB
493	1	Thorium-232	1	15	15	1.5		NoB
493	1	Uranium-234	2.37	15	15	1.2	5.47	NoA
493	1	Uranium-235	0.165	15	15	0.06	0.122	Yes
493	1	Uranium-238	5.5	15	15	1.2	0.517	Yes
517	1	Aluminum	12000	5	5	13000	4410	NoB
517	1	Antimony	0.23	5	1	0.21	0.552	NoA
517	1	Arsenic	6.73	5	3	12	0.238	NoB
517	1	Barium	123	5	5	200	140	NoAB
517	1	Beryllium	0.739	5	4	0.67	0.00567	Yes
517	1	Bromomethane	0.00051	5	1			NoC
517	1	Cadmium	0.1	5	1	0.21	0.811	NoAB
517	1	Calcium	12200	5	5	200000		NoB
517	1	Chloroform	0.0002	1	1		0.122	NoA
517	1	Chromium	49.1	5	5	16	15.6	Yes
517	1	Cobalt	9.8	5	5	14	1.37	NoB
517	1	Copper	33.7	5	5	19	184	NoA
517	1	Di-n-butyl phthalate	2	5	2			NoC
517	1	Fluoranthene	0.67	5	1		109	NoA
517	1	Iron	20800	5	5	28000	3220	NoB
517	1	Lead	32.2	5	2	36	400	NoAB
517	1	Magnesium	1870	5	5	7700		NoB
517	1	Manganese	562	5	5	1500	419	NoB
517	1	Mercury	0.0793	5	1	0.2	0.213	NoAB
517	1	Methylene chloride	0.013	5	2			NoC
517	1	Molybdenum	0.9	1	1		23	NoA
517	1	Nickel	172	5	5	21	10.4	Yes
517	1	PCB, Total	0.5	5	1		0.0648	Yes
517	1	Pyrene	0.54	5	1		81.2	NoA
517	1	Selenium	1.2	5	1	0.8	23	NoA
517	1	Silver	0.042	5	1	2.3	2.61	NoAB
517	1	Sodium	98.8	1	1	320		NoB
517	1	Thallium	0.36	5	1	0.21	0.368	NoA
517	1	Total PAH	0.0095	5	1		0.0197	NoA
517	1	Uranium	3.02	6	2	4.9	13.8	NoAB
517	1	Vanadium	26.7	5	5	38	0.0365	NoB
517	1	Zinc	1250	5	5	65	1380	NoA
517	1	Alpha activity	30.8	2	2			NoC
517	1	Americium-241	0.0756	6	6		1.5	NoA
517	1	Beta activity	32.5	2	2			NoC
517	1	Cesium-137	0.096	6	6	0.49	0.0267	NoB
517	1	Cobalt-60	0.00639	4	4		0.00547	Yes
517	1	Neptunium-237	1.07	6	6	0.1	0.0839	Yes
517	1	Plutonium-238	0.018	6	6	0.073	3.21	NoAB
517	1	Plutonium-239/240	0.178	6	6	0.025	3.15	NoA
517	1	Technetium-99	83.2	6	6	2.5	101	NoA
517	1	Thorium-228	0.99	6	6	1.6		NoB
517	1	Thorium-230	1	6	6	1.5	4.1	NoAB
517	1	Thorium-232	0.94	6	6	1.5		NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
517	1	Uranium-234	2.48	6	6	1.2	5.47	NoA
517	1	Uranium-235	0.16	6	6	0.06	0.122	Yes
517	1	Uranium-238	3.89	6	6	1.2	0.517	Yes
518	1	Acenaphthene	31	25	7		117	NoA
518	1	Acenaphthylene	1.2	25	1			NoC
518	1	Aluminum	8720	9	9	13000	4410	NoB
518	1	Anthracene	40	25	8		747	NoA
518	1	Arsenic	8.63	9	3	12	0.238	NoB
518	1	Barium	130	9	9	200	140	NoAB
518	1	Benzo(ghi)perylene	28	25	10			NoC
518	1	Beryllium	0.55	9	3	0.67	0.00567	NoB
518	1	Bis(2-ethylhexyl)phthalate	5.7	24	16			NoC
518	1	Calcium	207000	9	9	200000		NoE
518	1	Carbazole	37	22	5		8.72	Yes
518	1	Chromium	12.8	9	9	16	15.6	NoAB
518	1	Cobalt	17.6	9	9	14	1.37	Yes
518	1	Copper	10.8	9	9	19	184	NoAB
518	1	Dibenzofuran	1.65	3	1			NoC
518	1	Fluoranthene	12.1	4	2		109	NoA
518	1	Fluorene	27	25	6		91.5	NoA
518	1	Iron	12200	9	9	28000	3220	NoB
518	1	Lead	31.9	9	3	36	400	NoAB
518	1	Magnesium	4780	9	9	7700		NoB
518	1	Manganese	493	9	9	1500	419	NoB
518	1	Methylene chloride	0.006	7	2			NoC
518	1	Nickel	24.8	9	9	21	10.4	Yes
518	1	PCB, Total	1.64	15	3		0.0648	Yes
518	1	Phenanthrene	64	25	13			NoC
518	1	Pyrene	150	25	17		81.2	Yes
518	1	Selenium	1.06	9	1	0.8	23	NoA
518	1	Sodium	220	4	3	320		NoB
518	1	Total PAH	12.71007	25	2		0.0197	Yes
518	1	Uranium	217	7	3	4.9	13.8	Yes
518	1	Vanadium	20.8	9	9	38	0.0365	NoB
518	1	Zinc	76.1	9	4	65	1380	NoA
518	1	Alpha activity	18.1	1	1			NoC
518	1	Americium-241	0.0528	7	7		1.5	NoA
518	1	Beta activity	33.1	1	1			NoC
518	1	Cesium-137	0.0741	7	7	0.49	0.0267	NoB
518	1	Cobalt-60	0.00446	6	6		0.00547	NoA
518	1	Neptunium-237	0.016	7	7	0.1	0.0839	NoAB
518	1	Plutonium-238	0.014	7	7	0.073	3.21	NoAB
518	1	Plutonium-239/240	0.013	7	7	0.025	3.15	NoAB
518	1	Technetium-99	17.3	7	7	2.5	101	NoA
518	1	Thorium-228	0.76	7	7	1.6		NoB
518	1	Thorium-230	1.11	7	7	1.5	4.1	NoAB
518	1	Thorium-232	0.73	7	7	1.5		NoB
518	1	Uranium-234	2.56	7	7	1.2	5.47	NoA
518	1	Uranium-235	0.163	7	7	0.06	0.122	Yes
518	1	Uranium-238	3.04	7	7	1.2	0.517	Yes
520	1	Aluminum	5020	2	2	13000	4410	NoB
520	1	Antimony	0.3	2	1	0.21	0.552	NoA
520	1	Arsenic	8.83	11	4	12	0.238	NoB
520	1	Barium	69.9	2	2	200	140	NoAB
520	1	Beryllium	0.27	2	1	0.67	0.00567	NoB
520	1	Cadmium	0.6	2	1	0.21	0.811	NoA
520	1	Calcium	220000	2	2	200000		NoE

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
520	1	Chromium	31.73	11	3	16	15.6	Yes
520	1	Cobalt	6.07	2	2	14	1.37	NoB
520	1	Copper	38.01	11	4	19	184	NoA
520	1	Fluoranthene	0.039	2	1		109	NoA
520	1	Iron	32605.35	11	11	28000	3220	Yes
520	1	Lead	26.82	11	8	36	400	NoAB
520	1	Magnesium	18400	2	2	7700		NoE
520	1	Manganese	546.05	11	11	1500	419	NoB
520	1	Mercury	10.68	11	3	0.2	0.213	Yes
520	1	Molybdenum	1.1	11	1		23	NoA
520	1	Nickel	648	11	8	21	10.4	Yes
520	1	Potassium	166	1	1	1300		NoB
520	1	Pyrene	0.038	2	1		81.2	NoA
520	1	Selenium	4.48	11	2	0.8	23	NoA
520	1	Silver	13.95	11	3	2.3	2.61	Yes
520	1	Sodium	164	2	1	320		NoB
520	1	Thallium	0.16	2	1	0.21	0.368	NoAB
520	1	Total PAH	0.031836	2	1		0.0197	Yes
520	1	Uranium	22.94	12	4	4.9	13.8	Yes
520	1	Vanadium	23.4	2	2	38	0.0365	NoB
520	1	Zinc	77.66	11	10	65	1380	NoA
520	1	Alpha activity	101	2	2			NoC
520	1	Americium-241	0.339	3	3		1.5	NoA
520	1	Beta activity	64.3	2	2			NoC
520	1	Cesium-137	1.61	3	3	0.49	0.0267	Yes
520	1	Cobalt-60	-0.0153	1	1		0.00547	NoA
520	1	Neptunium-237	1.1	3	3	0.1	0.0839	Yes
520	1	Plutonium-238	0.04	3	3	0.073	3.21	NoAB
520	1	Plutonium-239/240	1.23	3	3	0.025	3.15	NoA
520	1	Technetium-99	7.93	3	3	2.5	101	NoA
520	1	Thorium-228	0.43	3	3	1.6		NoB
520	1	Thorium-230	18.7	3	3	1.5	4.1	Yes
520	1	Thorium-232	0.56	3	3	1.5		NoB
520	1	Uranium-234	3.27	3	3	1.2	5.47	NoA
520	1	Uranium-235	0.19	3	3	0.06	0.122	Yes
520	1	Uranium-238	6.14	3	3	1.2	0.517	Yes
520	2	Aluminum	10600	8	8	13000	4410	NoB
520	2	Anthracene	0.156	8	1		747	NoA
520	2	Antimony	0.29	8	1	0.21	0.552	NoA
520	2	Arsenic	10.4	22	7	12	0.238	NoB
520	2	Barium	98.4	8	8	200	140	NoAB
520	2	Benzo(ghi)perylene	0.124	8	2			NoC
520	2	Beryllium	0.67	8	4	0.67	0.00567	Yes
520	2	Bis(2-ethylhexyl)phthalate	0.42	8	1			NoC
520	2	Cadmium	0.44	8	1	0.21	0.811	NoA
520	2	Calcium	282000	8	8	200000		NoE
520	2	Chromium	66.65	22	10	16	15.6	Yes
520	2	Cobalt	5.7	8	8	14	1.37	NoB
520	2	Copper	65.54	22	15	19	184	NoA
520	2	Fluoranthene	0.636	2	2		109	NoA
520	2	Iron	18363.05	22	22	28000	3220	NoB
520	2	Lead	27.06	22	15	36	400	NoAB
520	2	Lithium	8.08	6	6			NoC
520	2	Magnesium	5490	8	8	7700		NoB
520	2	Manganese	1761.69	22	22	1500	419	Yes
520	2	Mercury	11.88	22	2	0.2	0.213	Yes
520	2	Molybdenum	1.2	15	1		23	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
520	2	Nickel	809.76	22	20	21	10.4	Yes
520	2	Phenanthrene	0.461	8	1			NoC
520	2	Potassium	578	1	1	1300		NoB
520	2	Pyrene	0.663	8	2		81.2	NoA
520	2	Selenium	0.83	22	1	0.8	23	NoA
520	2	Silver	0.067	22	1	2.3	2.61	NoAB
520	2	Sodium	231	2	2	320		NoB
520	2	Thallium	0.13	8	1	0.21	0.368	NoAB
520	2	Total Organic Carbon (TOC)	11000	1	1			NoC
520	2	Total PAH	0.496717	8	2		0.0197	Yes
520	2	Uranium	114	21	11	4.9	13.8	Yes
520	2	Vanadium	26	8	8	38	0.0365	NoB
520	2	Zinc	128	22	22	65	1380	NoA
520	2	Alpha activity	21.5	1	1			NoC
520	2	Americium-241	0.0594	7	7		1.5	NoA
520	2	Beta activity	26.9	1	1			NoC
520	2	Cesium-134	0.00302	6	6			NoC
520	2	Cesium-137	0.0523	7	7	0.49	0.0267	NoB
520	2	Cobalt-60	0.0052	6	6		0.00547	NoA
520	2	Neptunium-237	0.11	7	7	0.1	0.0839	Yes
520	2	Plutonium-238	0.00758	7	7	0.073	3.21	NoAB
520	2	Plutonium-239/240	0.00771	7	7	0.025	3.15	NoAB
520	2	Technetium-99	3.85	8	8	2.5	101	NoA
520	2	Thorium-228	0.5	7	7	1.6		NoB
520	2	Thorium-230	0.87	7	7	1.5	4.1	NoAB
520	2	Thorium-232	0.6	7	7	1.5		NoB
520	2	Uranium-234	1.35	7	7	1.2	5.47	NoA
520	2	Uranium-235	0.097	7	7	0.06	0.122	NoA
520	2	Uranium-238	2.06	7	7	1.2	0.517	Yes
520	3	Aluminum	6240	1	1	13000	4410	NoB
520	3	Antimony	0.51	1	1	0.21	0.552	NoA
520	3	Arsenic	8.91	15	2	12	0.238	NoB
520	3	Barium	68.6	1	1	200	140	NoAB
520	3	Benzo(ghi)perylene	0.079	1	1			NoC
520	3	Beryllium	0.28	1	1	0.67	0.00567	NoB
520	3	Cadmium	0.47	1	1	0.21	0.811	NoA
520	3	Calcium	267000	1	1	200000		NoE
520	3	Chromium	39.68	15	3	16	15.6	Yes
520	3	Cobalt	3.9	1	1	14	1.37	NoB
520	3	Copper	239.62	15	4	19	184	Yes
520	3	Fluoranthene	0.21	1	1		109	NoA
520	3	Iron	18228.04	15	15	28000	3220	NoB
520	3	Lead	22.74	15	12	36	400	NoAB
520	3	Magnesium	19300	1	1	7700		NoE
520	3	Manganese	324.51	15	15	1500	419	NoAB
520	3	Mercury	0.0205	15	1	0.2	0.213	NoAB
520	3	Molybdenum	0.73	15	1		23	NoA
520	3	Nickel	630.99	15	8	21	10.4	Yes
520	3	Phenanthrene	0.059	1	1			NoC
520	3	Pyrene	0.18	1	1		81.2	NoA
520	3	Selenium	3.9	15	2	0.8	23	NoA
520	3	Silver	13.32	15	2	2.3	2.61	Yes
520	3	Sodium	227	1	1	320		NoB
520	3	Thallium	0.15	1	1	0.21	0.368	NoAB
520	3	Total PAH	0.11809	1	1		0.0197	Yes
520	3	Uranium	28.18	15	8	4.9	13.8	Yes
520	3	Vanadium	17	1	1	38	0.0365	NoB

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A = <Child Resident NAL C = no NAL available
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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
520	3	Zinc	146.19	15	15	65	1380	NoA
520	3	Alpha activity	19.2	1	1			NoC
520	3	Americium-241	0.0082	1	1		1.5	NoA
520	3	Beta activity	23.2	1	1			NoC
520	3	Cesium-137	0.04	1	1	0.49	0.0267	NoB
520	3	Neptunium-237	0.011	1	1	0.1	0.0839	NoAB
520	3	Plutonium-238	0.009	1	1	0.073	3.21	NoAB
520	3	Plutonium-239/240	0.0056	1	1	0.025	3.15	NoAB
520	3	Technetium-99	0.78	1	1	2.5	101	NoAB
520	3	Thorium-228	0.353	1	1	1.6		NoB
520	3	Thorium-230	0.89	1	1	1.5	4.1	NoAB
520	3	Thorium-232	0.343	1	1	1.5		NoB
520	3	Uranium-234	0.98	1	1	1.2	5.47	NoAB
520	3	Uranium-235	0.061	1	1	0.06	0.122	NoA
520	3	Uranium-238	1.57	1	1	1.2	0.517	Yes
520	4	Aluminum	2570	1	1	13000	4410	NoAB
520	4	Anthracene	0.085	1	1		747	NoA
520	4	Antimony	0.44	1	1	0.21	0.552	NoA
520	4	Arsenic	6.53	14	2	12	0.238	NoB
520	4	Barium	86.2	1	1	200	140	NoAB
520	4	Benzo(ghi)perylene	0.27	1	1			NoC
520	4	Beryllium	0.19	1	1	0.67	0.00567	NoB
520	4	Bis(2-ethylhexyl)phthalate	0.1	1	1			NoC
520	4	Cadmium	0.47	1	1	0.21	0.811	NoA
520	4	Calcium	278000	1	1	200000		NoE
520	4	Chromium	38.23	14	3	16	15.6	Yes
520	4	Cobalt	2.3	1	1	14	1.37	NoB
520	4	Copper	242.69	14	4	19	184	Yes
520	4	Fluoranthene	0.69	1	1		109	NoA
520	4	Iron	16751.7	14	14	28000	3220	NoB
520	4	Lead	24.8	14	13	36	400	NoAB
520	4	Magnesium	16200	1	1	7700		NoE
520	4	Manganese	363.5	14	14	1500	419	NoAB
520	4	Mercury	9.69	14	1	0.2	0.213	Yes
520	4	Molybdenum	0.86	14	1		23	NoA
520	4	Nickel	587.23	14	9	21	10.4	Yes
520	4	Phenanthrene	0.32	1	1			NoC
520	4	Pyrene	0.6	1	1		81.2	NoA
520	4	Selenium	4.55	14	1	0.8	23	NoA
520	4	Silver	12.25	14	2	2.3	2.61	Yes
520	4	Sodium	202	1	1	320		NoB
520	4	Thallium	0.1	1	1	0.21	0.368	NoAB
520	4	Total PAH	0.55242	1	1		0.0197	Yes
520	4	Uranium	48.82	14	6	4.9	13.8	Yes
520	4	Vanadium	8.1	1	1	38	0.0365	NoB
520	4	Zinc	372.55	14	14	65	1380	NoA
520	4	Alpha activity	26.4	1	1			NoC
520	4	Americium-241	0.092	1	1		1.5	NoA
520	4	Beta activity	51	1	1			NoC
520	4	Cesium-137	0.056	1	1	0.49	0.0267	NoB
520	4	Neptunium-237	0.74	1	1	0.1	0.0839	Yes
520	4	Plutonium-238	0.021	1	1	0.073	3.21	NoAB
520	4	Plutonium-239/240	0.459	1	1	0.025	3.15	NoA
520	4	Technetium-99	4.85	1	1	2.5	101	NoA
520	4	Thorium-228	0.148	1	1	1.6		NoB
520	4	Thorium-230	0.91	1	1	1.5	4.1	NoAB
520	4	Thorium-232	0.134	1	1	1.5		NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
520	4	Uranium-234	3.69	1	1	1.2	5.47	NoA
520	4	Uranium-235	0.242	1	1	0.06	0.122	Yes
520	4	Uranium-238	6.26	1	1	1.2	0.517	Yes
520	5	Aluminum	6240	1	1	13000	4410	NoB
520	5	Anthracene	0.073	1	1		747	NoA
520	5	Antimony	0.96	1	1	0.21	0.552	Yes
520	5	Arsenic	5.4	10	1	12	0.238	NoB
520	5	Barium	68	1	1	200	140	NoAB
520	5	Benzo(ghi)perylene	0.15	1	1			NoC
520	5	Beryllium	0.34	1	1	0.67	0.00567	NoB
520	5	Bis(2-ethylhexyl)phthalate	0.072	1	1			NoC
520	5	Cadmium	0.48	1	1	0.21	0.811	NoA
520	5	Calcium	272000	1	1	200000		NoE
520	5	Chromium	36.82	10	2	16	15.6	Yes
520	5	Cobalt	4.6	1	1	14	1.37	NoB
520	5	Copper	13.3	10	1	19	184	NoAB
520	5	Fluoranthene	0.61	1	1		109	NoA
520	5	Iron	15800	10	10	28000	3220	NoB
520	5	Lead	26.05	10	10	36	400	NoAB
520	5	Magnesium	7140	1	1	7700		NoB
520	5	Manganese	382	10	10	1500	419	NoAB
520	5	Mercury	0.0316	10	1	0.2	0.213	NoAB
520	5	Molybdenum	1.3	10	1		23	NoA
520	5	Nickel	220.42	10	4	21	10.4	Yes
520	5	Phenanthrene	0.27	1	1			NoC
520	5	Pyrene	0.5	1	1		81.2	NoA
520	5	Selenium	0.88	10	1	0.8	23	NoA
520	5	Silver	0.074	10	1	2.3	2.61	NoAB
520	5	Sodium	198	1	1	320		NoB
520	5	Thallium	0.34	1	1	0.21	0.368	NoA
520	5	Total PAH	0.38723	1	1		0.0197	Yes
520	5	Uranium	9.13	10	4	4.9	13.8	NoA
520	5	Vanadium	18.2	1	1	38	0.0365	NoB
520	5	Zinc	73.64	10	10	65	1380	NoA
520	5	Alpha activity	21.9	1	1			NoC
520	5	Americium-241	0.011	1	1		1.5	NoA
520	5	Beta activity	20.4	1	1			NoC
520	5	Cesium-137	0.067	1	1	0.49	0.0267	NoB
520	5	Neptunium-237	0.155	1	1	0.1	0.0839	Yes
520	5	Plutonium-238	0.005	1	1	0.073	3.21	NoAB
520	5	Plutonium-239/240	0.018	1	1	0.025	3.15	NoAB
520	5	Technetium-99	1.14	1	1	2.5	101	NoAB
520	5	Thorium-228	0.51	1	1	1.6		NoB
520	5	Thorium-230	0.72	1	1	1.5	4.1	NoAB
520	5	Thorium-232	0.42	1	1	1.5		NoB
520	5	Uranium-234	1.08	1	1	1.2	5.47	NoAB
520	5	Uranium-235	0.043	1	1	0.06	0.122	NoAB
520	5	Uranium-238	1.45	1	1	1.2	0.517	Yes
531	1	Aluminum	1090	1	1	13000	4410	NoAB
531	1	Antimony	1	1	1	0.21	0.552	Yes
531	1	Arsenic	46.82	7	5	12	0.238	Yes
531	1	Barium	24.7	1	1	200	140	NoAB
531	1	Beryllium	0.32	1	1	0.67	0.00567	NoB
531	1	Bis(2-ethylhexyl)phthalate	0.047	1	1			NoC
531	1	Cadmium	3.1	1	1	0.21	0.811	Yes
531	1	Calcium	104000	1	1	200000		NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
531	1	Chromium	50.45	7	2	16	15.6	Yes
531	1	Cobalt	3.2	1	1	14	1.37	NoB
531	1	Copper	7.8	7	1	19	184	NoAB
531	1	Fluoranthene	0.068	1	1		109	NoA
531	1	Iron	56840.49	7	7	28000	3220	Yes
531	1	Lead	531.14	7	7	36	400	Yes
531	1	Magnesium	3550	1	1	7700		NoB
531	1	Manganese	865.47	7	7	1500	419	NoB
531	1	Mercury	0.014	7	1	0.2	0.213	NoAB
531	1	Molybdenum	1.1	7	1		23	NoA
531	1	Nickel	162.23	7	4	21	10.4	Yes
531	1	Pyrene	0.06	1	1		81.2	NoA
531	1	Selenium	0.56	7	1	0.8	23	NoAB
531	1	Silver	0.1	7	1	2.3	2.61	NoAB
531	1	Sodium	134	1	1	320		NoB
531	1	Total PAH	0.053374	1	1		0.0197	Yes
531	1	Uranium	24.07	7	3	4.9	13.8	Yes
531	1	Vanadium	9	1	1	38	0.0365	NoB
531	1	Zinc	2451.69	7	7	65	1380	Yes
531	1	Alpha activity	21	1	1			NoC
531	1	Americium-241	0.015	1	1		1.5	NoA
531	1	Beta activity	16.3	1	1			NoC
531	1	Cesium-137	0.226	1	1	0.49	0.0267	NoB
531	1	Neptunium-237	0.033	1	1	0.1	0.0839	NoAB
531	1	Plutonium-238	0.02	1	1	0.073	3.21	NoAB
531	1	Plutonium-239/240	0.013	1	1	0.025	3.15	NoAB
531	1	Technetium-99	1.17	1	1	2.5	101	NoAB
531	1	Thorium-228	0.136	1	1	1.6		NoB
531	1	Thorium-230	0.453	1	1	1.5	4.1	NoAB
531	1	Thorium-232	0.134	1	1	1.5		NoB
531	1	Uranium-234	3.12	1	1	1.2	5.47	NoA
531	1	Uranium-235	0.138	1	1	0.06	0.122	Yes
531	1	Uranium-238	3.48	1	1	1.2	0.517	Yes
541	1	Acenaphthene	2	38	3		117	NoA
541	1	Aluminum	19200	41	41	13000	4410	Yes
541	1	Anthracene	2.6	38	4		747	NoA
541	1	Arsenic	9.98	41	36	12	0.238	NoB
541	1	Barium	230	41	41	200	140	Yes
541	1	Benzo(ghi)perylene	1.8	38	6			NoC
541	1	Beryllium	1.46	41	17	0.67	0.00567	Yes
541	1	Cadmium	2.75	41	18	0.21	0.811	Yes
541	1	Calcium	23800	41	41	200000		NoB
541	1	Carbazole	1	12	2		8.72	NoA
541	1	Chromium	3352.5	259	161	16	15.6	Yes
541	1	Cobalt	12.3	41	41	14	1.37	NoB
541	1	Copper	161	41	40	19	184	NoA
541	1	Dibenzofuran	0.6	11	1			NoC
541	1	Di-n-butyl phthalate	1.4	10	6			NoC
541	1	Fluoranthene	24	36	11		109	NoA
541	1	Fluorene	1.5	38	2		91.5	NoA
541	1	Iron	29600	41	41	28000	3220	Yes
541	1	Lead	94.3	259	236	36	400	NoA
541	1	Magnesium	4420	41	41	7700		NoB
541	1	Manganese	821	41	41	1500	419	NoB
541	1	Mercury	0.23	41	27	0.2	0.213	Yes
541	1	Methylene chloride	0.011	10	1			NoC
541	1	Naphthalene	1.8	38	1		1.15	Yes
541	1	Nickel	32.8	41	41	21	10.4	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
541	1	PCB, Total	94	261	49		0.0648	Yes
541	1	Phenanthrene	19	38	9			NoC
541	1	Pyrene	14	38	9		81.2	NoA
541	1	Selenium	2	41	9	0.8	23	NoA
541	1	Silver	0.33	41	1	2.3	2.61	NoAB
541	1	Sodium	45	39	3	320		NoB
541	1	Total PAH	7.6297	256	33		0.0197	Yes
541	1	Uranium	20200	257	242	4.9	13.8	Yes
541	1	Vanadium	49.7	41	41	38	0.0365	Yes
541	1	Zinc	1090	41	40	65	1380	NoA
541	1	Alpha activity	897	1	1			NoC
541	1	Americium-241	27.3	41	41		1.5	Yes
541	1	Beta activity	1080	1	1			NoC
541	1	Cesium-137	2.33	41	41	0.49	0.0267	Yes
541	1	Cobalt-60	0.0183	12	12		0.00547	Yes
541	1	Neptunium-237	0.181	38	38	0.1	0.0839	Yes
541	1	Plutonium-238	0.017	36	36	0.073	3.21	NoAB
541	1	Plutonium-239/240	0.156	41	41	0.025	3.15	NoA
541	1	Technetium-99	36.5	39	39	2.5	101	NoA
541	1	Thorium-228	1.07	41	41	1.6		NoB
541	1	Thorium-230	1.38	41	41	1.5	4.1	NoAB
541	1	Thorium-232	1.09	41	41	1.5		NoB
541	1	Uranium-234	713	41	41	1.2	5.47	Yes
541	1	Uranium-235	65.1	41	41	0.06	0.122	Yes
541	1	Uranium-238	4540	41	41	1.2	0.517	Yes
561	1	Aluminum	12600	45	45	13000	4410	NoB
561	1	Antimony	3.5	45	44	0.21	0.552	Yes
561	1	Arsenic	33.1	45	44	12	0.238	Yes
561	1	Barium	438	45	45	200	140	Yes
561	1	Benzo(ghi)perylene	0.071	43	1			NoC
561	1	Beryllium	1.5	45	44	0.67	0.00567	Yes
561	1	Bis(2-ethylhexyl)phthalate	0.055	43	1			NoC
561	1	Boron	2.9	1	1		918	NoA
561	1	Cadmium	0.35	45	44	0.21	0.811	NoA
561	1	Calcium	1640	45	45	200000		NoB
561	1	Chromium	432	277	45	16	15.6	Yes
561	1	Cobalt	30.9	45	45	14	1.37	Yes
561	1	Copper	30.2	45	45	19	184	NoA
561	1	Fluoranthene	0.32	43	7		109	NoA
561	1	Iron	48500	45	45	28000	3220	Yes
561	1	Lead	225.47	277	191	36	400	NoA
561	1	Magnesium	1880	45	45	7700		NoB
561	1	Manganese	5230	45	45	1500	419	Yes
561	1	Mercury	0.0656	45	30	0.2	0.213	NoAB
561	1	Molybdenum	2.4	44	43		23	NoA
561	1	Nickel	20.7	45	45	21	10.4	NoB
561	1	PCB, Total	2.2	277	7		0.0648	Yes
561	1	Phenanthrene	0.17	43	2			NoC
561	1	Pyrene	0.23	43	5		81.2	NoA
561	1	Selenium	0.7	45	36	0.8	23	NoAB
561	1	Silver	0.085	44	43	2.3	2.61	NoAB
561	1	Sodium	42.3	45	43	320		NoB
561	1	Thallium	0.52	45	43	0.21	0.368	Yes
561	1	Total PAH	0.16506	43	2		0.0197	Yes
561	1	Uranium	1370	277	51	4.9	13.8	Yes
561	1	Vanadium	86.9	45	45	38	0.0365	Yes
561	1	Zinc	354	45	45	65	1380	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
561	1	Americium-241	0.0299	44	44		1.5	NoA
561	1	Cesium-137	0.38	43	43	0.49	0.0267	NoB
561	1	Cobalt-60	0.297	44	44		0.00547	Yes
561	1	Neptunium-237	0.139	45	45	0.1	0.0839	Yes
561	1	Plutonium-238	0.6296	41	41	0.073	3.21	NoA
561	1	Plutonium-239/240	0.0604	45	45	0.025	3.15	NoA
561	1	Technetium-99	2.12	44	44	2.5	101	NoAB
561	1	Thorium-228	1.12	43	43	1.6		NoB
561	1	Thorium-230	1.14	44	44	1.5	4.1	NoAB
561	1	Thorium-232	1.09	43	43	1.5		NoB
561	1	Uranium-234	37.78	46	46	1.2	5.47	Yes
561	1	Uranium-235	6.788	46	46	0.06	0.122	Yes
561	1	Uranium-238	412.7	46	46	1.2	0.517	Yes
561	2	Acenaphthene	2.7	51	2		117	NoA
561	2	Aluminum	9550	61	61	13000	4410	NoB
561	2	Anthracene	4.9	51	2		747	NoA
561	2	Antimony	22	61	56	0.21	0.552	Yes
561	2	Arsenic	39.6	61	58	12	0.238	Yes
561	2	Barium	137	61	61	200	140	NoAB
561	2	Benzo(ghi)perylene	4.9	51	6			NoC
561	2	Benzoic acid	0.73	51	2			NoC
561	2	Beryllium	1	61	57	0.67	0.00567	Yes
561	2	Bis(2-ethylhexyl)phthalate	0.052	49	2			NoC
561	2	Boron	7.1	8	4		918	NoA
561	2	Butyl benzyl phthalate	0.059	49	1			NoC
561	2	Cadmium	1.2	61	53	0.21	0.811	Yes
561	2	Calcium	2310	61	61	200000		NoB
561	2	Carbazole	1.4	2	1		8.72	NoA
561	2	Chromium	1370	289	64	16	15.6	Yes
561	2	Cobalt	31	61	61	14	1.37	Yes
561	2	Copper	62.5	61	61	19	184	NoA
561	2	Dibenzofuran	1.1	51	2			NoC
561	2	Diethyl phthalate	0.072	51	1			NoC
561	2	Di-n-butyl phthalate	0.044	51	1			NoC
561	2	Fluoranthene	22	53	7		109	NoA
561	2	Fluorene	2.2	51	2		91.5	NoA
561	2	Iron	26000	61	61	28000	3220	NoB
561	2	Lead	53.5	289	145	36	400	NoA
561	2	Magnesium	1290	61	61	7700		NoB
561	2	Manganese	2230	61	61	1500	419	Yes
561	2	Mercury	0.092	61	57	0.2	0.213	NoAB
561	2	Methylene chloride	0.0035	5	1			NoC
561	2	Molybdenum	1.7	57	50		23	NoA
561	2	Naphthalene	0.55	51	1		1.15	NoA
561	2	Nickel	15.9	61	61	21	10.4	NoB
561	2	PCB, Total	79	290	32		0.0648	Yes
561	2	Phenanthrene	2.4	50	5			NoC
561	2	Pyrene	2.4	51	6		81.2	NoA
561	2	Selenium	1.1	61	44	0.8	23	NoA
561	2	Silver	0.14	57	49	2.3	2.61	NoAB
561	2	Sodium	223	61	54	320		NoB
561	2	Thallium	1.2	61	53	0.21	0.368	Yes
561	2	Total PAH	0.73718	52	4		0.0197	Yes
561	2	Uranium	6410	290	143	4.9	13.8	Yes
561	2	Vanadium	71.6	61	61	38	0.0365	Yes
561	2	Zinc	1130	61	61	65	1380	NoA
561	2	Alpha activity	17.8	1	1			NoC

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A = <Child Resident NAL C = no NAL available
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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
561	2	Americium-241	0.186	50	50		1.5	NoA
561	2	Beta activity	27.1	1	1			NoC
561	2	Cesium-137	1.01	55	55	0.49	0.0267	Yes
561	2	Cobalt-60	0.0438	50	50		0.00547	Yes
561	2	Neptunium-237	0.19	55	55	0.1	0.0839	Yes
561	2	Plutonium-238	0.5558	54	54	0.073	3.21	NoA
561	2	Plutonium-239/240	0.158	58	58	0.025	3.15	NoA
561	2	Technetium-99	8.38	55	55	2.5	101	NoA
561	2	Thorium-228	0.87	47	47	1.6		NoB
561	2	Thorium-230	2.23	51	51	1.5	4.1	NoA
561	2	Thorium-232	0.96	47	47	1.5		NoB
561	2	Uranium-234	136	63	63	1.2	5.47	Yes
561	2	Uranium-235	19.6	63	63	0.06	0.122	Yes
561	2	Uranium-238	1340	63	63	1.2	0.517	Yes
562	1	Aluminum	7460	3	3	13000	4410	NoB
562	1	Arsenic	3.11	3	3	12	0.238	NoB
562	1	Barium	57.4	3	3	200	140	NoAB
562	1	Calcium	1110	3	3	200000		NoB
562	1	Chromium	13.4	9	3	16	15.6	NoAB
562	1	Cobalt	3.6	3	3	14	1.37	NoB
562	1	Copper	6.43	3	3	19	184	NoAB
562	1	Iron	8420	3	3	28000	3220	NoB
562	1	Lead	17.37	9	8	36	400	NoAB
562	1	Magnesium	650	3	3	7700		NoB
562	1	Manganese	388	3	3	1500	419	NoAB
562	1	Mercury	0.026	3	1	0.2	0.213	NoAB
562	1	Nickel	5.3	3	1	21	10.4	NoAB
562	1	Uranium	87.32	9	7	4.9	13.8	Yes
562	1	Vanadium	16.5	3	3	38	0.0365	NoB
562	1	Zinc	23.3	3	2	65	1380	NoAB
562	1	Americium-241	-0.000949	3	3		1.5	NoA
562	1	Cesium-137	0.452	3	3	0.49	0.0267	NoB
562	1	Neptunium-237	-0.0186	3	3	0.1	0.0839	NoAB
562	1	Plutonium-238	-0.00418	2	2	0.073	3.21	NoAB
562	1	Plutonium-239/240	0.00535	3	3	0.025	3.15	NoAB
562	1	Technetium-99	0.206	3	3	2.5	101	NoAB
562	1	Thorium-228	0.324	3	3	1.6		NoB
562	1	Thorium-230	0.254	3	3	1.5	4.1	NoAB
562	1	Thorium-232	0.409	3	3	1.5		NoB
562	1	Uranium-234	0.353	3	3	1.2	5.47	NoAB
562	1	Uranium-235	0.0418	3	3	0.06	0.122	NoAB
562	1	Uranium-238	2.73	3	3	1.2	0.517	Yes
562	2	Aluminum	6030	2	2	13000	4410	NoB
562	2	Arsenic	2.71	2	2	12	0.238	NoB
562	2	Barium	67.4	2	2	200	140	NoAB
562	2	Calcium	325	2	2	200000		NoB
562	2	Chromium	15.4	2	2	16	15.6	NoAB
562	2	Cobalt	4.81	2	2	14	1.37	NoB
562	2	Copper	7.56	2	2	19	184	NoAB
562	2	Iron	7250	2	2	28000	3220	NoB
562	2	Lead	25.32	2	2	36	400	NoAB
562	2	Magnesium	691	2	2	7700		NoB
562	2	Manganese	471	2	2	1500	419	NoB
562	2	Mercury	0.02	2	2	0.2	0.213	NoAB
562	2	Nickel	5.72	2	1	21	10.4	NoAB
562	2	PCB, Total	1.58	4	2		0.0648	Yes
562	2	Uranium	9.63	2	1	4.9	13.8	NoA
562	2	Vanadium	11.6	2	2	38	0.0365	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
562	2	Zinc	22	2	2	65	1380	NoAB
562	2	Americium-241	0.0028	4	4		1.5	NoA
562	2	Cesium-137	0.358	4	4	0.49	0.0267	NoB
562	2	Neptunium-237	0.0063	3	3	0.1	0.0839	NoAB
562	2	Plutonium-238	-0.00159	4	4	0.073	3.21	NoAB
562	2	Plutonium-239/240	0.0082	3	3	0.025	3.15	NoAB
562	2	Technetium-99	4.36	4	4	2.5	101	NoA
562	2	Thorium-228	1.06	4	4	1.6		NoB
562	2	Thorium-230	1.01	4	4	1.5	4.1	NoAB
562	2	Thorium-232	1.07	4	4	1.5		NoB
562	2	Uranium-234	53.4	4	4	1.2	5.47	Yes
562	2	Uranium-235	8.96	4	4	0.06	0.122	Yes
562	2	Uranium-238	581	4	4	1.2	0.517	Yes
562	3	Aluminum	5790	1	1	13000	4410	NoB
562	3	Arsenic	3.87	1	1	12	0.238	NoB
562	3	Barium	55.8	1	1	200	140	NoAB
562	3	Calcium	968	1	1	200000		NoB
562	3	Chromium	38.16	1	1	16	15.6	Yes
562	3	Cobalt	4.9	1	1	14	1.37	NoB
562	3	Copper	7.84	1	1	19	184	NoAB
562	3	Fluoranthene	1.1	1	1		109	NoA
562	3	Iron	9230	1	1	28000	3220	NoB
562	3	Lead	12.73	1	1	36	400	NoAB
562	3	Magnesium	614	1	1	7700		NoB
562	3	Manganese	221	1	1	1500	419	NoAB
562	3	Nickel	4.99	1	1	21	10.4	NoAB
562	3	PCB, Total	0.24	1	1		0.0648	Yes
562	3	Phenanthrene	0.57	1	1			NoC
562	3	Pyrene	1.1	1	1		81.2	NoA
562	3	Total PAH	0.22	1	1		0.0197	Yes
562	3	Uranium	58.9	1	1	4.9	13.8	Yes
562	3	Vanadium	13.3	1	1	38	0.0365	NoB
562	3	Zinc	30.8	1	1	65	1380	NoAB
562	3	Americium-241	-0.00559	1	1		1.5	NoA
562	3	Cesium-137	0.0405	1	1	0.49	0.0267	NoB
562	3	Neptunium-237	-0.0203	1	1	0.1	0.0839	NoAB
562	3	Plutonium-238	-0.00614	1	1	0.073	3.21	NoAB
562	3	Plutonium-239/240	-0.00377	1	1	0.025	3.15	NoAB
562	3	Technetium-99	-0.54	1	1	2.5	101	NoAB
562	3	Thorium-228	0.377	1	1	1.6		NoB
562	3	Thorium-230	0.242	1	1	1.5	4.1	NoAB
562	3	Thorium-232	0.337	1	1	1.5		NoB
562	3	Uranium-234	1.13	1	1	1.2	5.47	NoAB
562	3	Uranium-235	0.163	1	1	0.06	0.122	Yes
562	3	Uranium-238	10.9	1	1	1.2	0.517	Yes
562	4	Aluminum	6610	2	2	13000	4410	NoB
562	4	Arsenic	2.92	2	2	12	0.238	NoB
562	4	Barium	69	2	2	200	140	NoAB
562	4	Calcium	307	2	2	200000		NoB
562	4	Chromium	46.66	4	2	16	15.6	Yes
562	4	Cobalt	3.51	2	2	14	1.37	NoB
562	4	Copper	6.56	2	2	19	184	NoAB
562	4	Iron	6980	2	2	28000	3220	NoB
562	4	Lead	19.04	4	4	36	400	NoAB
562	4	Magnesium	666	2	2	7700		NoB
562	4	Manganese	450	2	2	1500	419	NoB
562	4	Mercury	0.031	2	2	0.2	0.213	NoAB
562	4	Nickel	6.46	2	2	21	10.4	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
562	4	Uranium	20.99	4	3	4.9	13.8	Yes
562	4	Vanadium	12.9	2	2	38	0.0365	NoB
562	4	Zinc	25.9	2	2	65	1380	NoAB
562	4	Americium-241	-0.000528	2	2		1.5	NoA
562	4	Cesium-137	0.485	2	2	0.49	0.0267	NoB
562	4	Neptunium-237	-0.0261	1	1	0.1	0.0839	NoAB
562	4	Plutonium-238	-0.00535	2	2	0.073	3.21	NoAB
562	4	Plutonium-239/240	0.0095	2	2	0.025	3.15	NoAB
562	4	Technetium-99	0.669	2	2	2.5	101	NoAB
562	4	Thorium-228	0.339	2	2	1.6		NoB
562	4	Thorium-230	0.403	2	2	1.5	4.1	NoAB
562	4	Thorium-232	0.385	2	2	1.5		NoB
562	4	Uranium-234	0.309	2	2	1.2	5.47	NoAB
562	4	Uranium-235	0.0534	2	2	0.06	0.122	NoAB
562	4	Uranium-238	2.24	2	2	1.2	0.517	Yes
562	5	Aluminum	7610	2	2	13000	4410	NoB
562	5	Arsenic	5.77	2	2	12	0.238	NoB
562	5	Barium	76.8	2	2	200	140	NoAB
562	5	Cadmium	0.487	2	1	0.21	0.811	NoA
562	5	Calcium	1230	2	2	200000		NoB
562	5	Chromium	153.11	8	6	16	15.6	Yes
562	5	Cobalt	6.48	2	2	14	1.37	NoB
562	5	Copper	14.3	2	2	19	184	NoAB
562	5	Fluoranthene	1.5	2	1		109	NoA
562	5	Iron	10200	2	2	28000	3220	NoB
562	5	Lead	13.01	8	6	36	400	NoAB
562	5	Magnesium	812	2	2	7700		NoB
562	5	Manganese	383	2	2	1500	419	NoAB
562	5	Mercury	0.024	2	2	0.2	0.213	NoAB
562	5	Nickel	7.01	2	2	21	10.4	NoAB
562	5	PCB, Total	0.95	8	2		0.0648	Yes
562	5	Phenanthrene	1.1	2	1			NoC
562	5	Pyrene	0.98	2	1		81.2	NoA
562	5	Total PAH	0.0705	8	1		0.0197	Yes
562	5	Uranium	208	9	7	4.9	13.8	Yes
562	5	Vanadium	17.9	2	2	38	0.0365	NoB
562	5	Zinc	83.6	2	2	65	1380	NoA
562	5	Alpha activity	131	1	1			NoC
562	5	Americium-241	0.016	3	3		1.5	NoA
562	5	Beta activity	154	1	1			NoC
562	5	Cesium-137	0.38	3	3	0.49	0.0267	NoB
562	5	Neptunium-237	0.004	3	3	0.1	0.0839	NoAB
562	5	Plutonium-238	0.014	3	3	0.073	3.21	NoAB
562	5	Plutonium-239/240	0.012	3	3	0.025	3.15	NoAB
562	5	Technetium-99	0.88	3	3	2.5	101	NoAB
562	5	Thorium-228	0.97	3	3	1.6		NoB
562	5	Thorium-230	0.95	3	3	1.5	4.1	NoAB
562	5	Thorium-232	0.97	3	3	1.5		NoB
562	5	Uranium-234	8.57	3	3	1.2	5.47	Yes
562	5	Uranium-235	0.95	3	3	0.06	0.122	Yes
562	5	Uranium-238	62.4	3	3	1.2	0.517	Yes
563	1	Aluminum	9500	2	2	13000	4410	NoB
563	1	Arsenic	7.4	2	2	12	0.238	NoB
563	1	Barium	95.6	2	2	200	140	NoAB
563	1	Cadmium	0.896	2	2	0.21	0.811	Yes
563	1	Calcium	2590	2	2	200000		NoB
563	1	Chromium	285	4	3	16	15.6	Yes
563	1	Cobalt	8.91	2	2	14	1.37	NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
563	1	Copper	15.8	2	2	19	184	NoAB
563	1	Iron	13500	2	2	28000	3220	NoB
563	1	Lead	21.17	4	4	36	400	NoAB
563	1	Magnesium	1040	2	2	7700		NoB
563	1	Manganese	528	2	2	1500	419	NoB
563	1	Mercury	0.031	2	2	0.2	0.213	NoAB
563	1	Nickel	8.85	2	2	21	10.4	NoAB
563	1	PCB, Total	0.74	4	2		0.0648	Yes
563	1	Uranium	15.09	5	4	4.9	13.8	Yes
563	1	Vanadium	25.3	2	2	38	0.0365	NoB
563	1	Zinc	198	2	2	65	1380	NoA
563	1	Alpha activity	48	1	1			NoC
563	1	Americium-241	0.003	3	3		1.5	NoA
563	1	Beta activity	35.5	1	1			NoC
563	1	Cesium-137	0.203	3	3	0.49	0.0267	NoB
563	1	Neptunium-237	0.0594	3	3	0.1	0.0839	NoAB
563	1	Plutonium-238	0.003	2	2	0.073	3.21	NoAB
563	1	Plutonium-239/240	0.0111	3	3	0.025	3.15	NoAB
563	1	Technetium-99	0.941	3	3	2.5	101	NoAB
563	1	Thorium-228	0.98	3	3	1.6		NoB
563	1	Thorium-230	0.9	3	3	1.5	4.1	NoAB
563	1	Thorium-232	0.82	3	3	1.5		NoB
563	1	Uranium-234	0.877	3	3	1.2	5.47	NoAB
563	1	Uranium-235	0.076	3	3	0.06	0.122	NoA
563	1	Uranium-238	2.76	3	3	1.2	0.517	Yes
563	2	Aluminum	8420	1	1	13000	4410	NoB
563	2	Arsenic	5.1	1	1	12	0.238	NoB
563	2	Barium	87	1	1	200	140	NoAB
563	2	Calcium	3680	1	1	200000		NoB
563	2	Chromium	12	2	1	16	15.6	NoAB
563	2	Cobalt	8.2	1	1	14	1.37	NoB
563	2	Copper	10.6	1	1	19	184	NoAB
563	2	Iron	12500	1	1	28000	3220	NoB
563	2	Lead	11.8	2	2	36	400	NoAB
563	2	Magnesium	1280	1	1	7700		NoB
563	2	Manganese	518	1	1	1500	419	NoB
563	2	Mercury	0.019	1	1	0.2	0.213	NoAB
563	2	Nickel	9.05	1	1	21	10.4	NoAB
563	2	Uranium	1.1	2	1	4.9	13.8	NoAB
563	2	Vanadium	16.6	1	1	38	0.0365	NoB
563	2	Zinc	31.5	1	1	65	1380	NoAB
563	2	Americium-241	-0.000561	2	2		1.5	NoA
563	2	Cesium-137	0.647	2	2	0.49	0.0267	Yes
563	2	Neptunium-237	-0.00618	2	2	0.1	0.0839	NoAB
563	2	Plutonium-238	-0.000821	2	2	0.073	3.21	NoAB
563	2	Plutonium-239/240	0.0102	2	2	0.025	3.15	NoAB
563	2	Technetium-99	2.94	2	2	2.5	101	NoA
563	2	Thorium-228	0.903	2	2	1.6		NoB
563	2	Thorium-230	1.06	2	2	1.5	4.1	NoAB
563	2	Thorium-232	0.785	2	2	1.5		NoB
563	2	Uranium-234	0.574	2	2	1.2	5.47	NoAB
563	2	Uranium-235	0.054	2	2	0.06	0.122	NoAB
563	2	Uranium-238	1.49	2	2	1.2	0.517	Yes
564	1	Aluminum	12700	3	3	13000	4410	NoB
564	1	Arsenic	43	3	3	12	0.238	Yes
564	1	Barium	115	3	3	200	140	NoAB
564	1	Beryllium	2.12	3	3	0.67	0.00567	Yes
564	1	Cadmium	1.96	3	3	0.21	0.811	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
564	1	Calcium	1950	3	3	200000		NoB
564	1	Chromium	74.92	6	6	16	15.6	Yes
564	1	Cobalt	6.6	3	3	14	1.37	NoB
564	1	Copper	46.3	3	3	19	184	NoA
564	1	Iron	36600	3	3	28000	3220	Yes
564	1	Lead	40.9	6	6	36	400	NoA
564	1	Magnesium	912	3	3	7700		NoB
564	1	Manganese	487	3	3	1500	419	NoB
564	1	Mercury	0.23	3	3	0.2	0.213	Yes
564	1	Molybdenum	7.84	2	2		23	NoA
564	1	Nickel	22.4	3	3	21	10.4	Yes
564	1	PCB, Total	1.93	7	4		0.0648	Yes
564	1	Selenium	2.82	3	3	0.8	23	NoA
564	1	Silver	0.2	3	1	2.3	2.61	NoAB
564	1	Sodium	95.7	3	1	320		NoB
564	1	Thallium	2.36	3	2	0.21	0.368	Yes
564	1	Uranium	58.3	6	6	4.9	13.8	Yes
564	1	Vanadium	80.6	3	3	38	0.0365	Yes
564	1	Zinc	106	3	3	65	1380	NoA
564	1	Alpha activity	71	1	1			NoC
564	1	Americium-241	0.02	3	3		1.5	NoA
564	1	Beta activity	50.8	1	1			NoC
564	1	Cesium-137	0.62	3	3	0.49	0.0267	Yes
564	1	Neptunium-237	0.021	3	3	0.1	0.0839	NoAB
564	1	Plutonium-238	0.015	2	2	0.073	3.21	NoAB
564	1	Plutonium-239/240	0.068	3	3	0.025	3.15	NoA
564	1	Technetium-99	9.21	3	3	2.5	101	NoA
564	1	Thorium-228	1.05	3	3	1.6		NoB
564	1	Thorium-230	5.01	3	3	1.5	4.1	Yes
564	1	Thorium-232	1.24	3	3	1.5		NoB
564	1	Uranium-234	6.93	3	3	1.2	5.47	Yes
564	1	Uranium-235	0.387	3	3	0.06	0.122	Yes
564	1	Uranium-238	8.33	3	3	1.2	0.517	Yes
565	1	Uranium	3.31	1	1	4.9	13.8	NoAB
565	1	Alpha activity	37.6	1	1			NoC
565	1	Americium-241	0.02	1	1		1.5	NoA
565	1	Beta activity	31	1	1			NoC
565	1	Cesium-137	0.4	1	1	0.49	0.0267	NoB
565	1	Neptunium-237	-0.0022	1	1	0.1	0.0839	NoAB
565	1	Plutonium-238	0.017	1	1	0.073	3.21	NoAB
565	1	Plutonium-239/240	0.014	1	1	0.025	3.15	NoAB
565	1	Technetium-99	0.36	1	1	2.5	101	NoAB
565	1	Thorium-228	0.77	1	1	1.6		NoB
565	1	Thorium-230	0.88	1	1	1.5	4.1	NoAB
565	1	Thorium-232	0.74	1	1	1.5		NoB
565	1	Uranium-234	0.93	1	1	1.2	5.47	NoAB
565	1	Uranium-235	0.047	1	1	0.06	0.122	NoAB
565	1	Uranium-238	1.11	1	1	1.2	0.517	NoB
567	1	Aluminum	8350	3	3	13000	4410	NoB
567	1	Arsenic	4.89	3	2	12	0.238	NoB
567	1	Barium	120	3	3	200	140	NoAB
567	1	Beryllium	0.455	3	1	0.67	0.00567	NoB
567	1	Calcium	26200	3	3	200000		NoB
567	1	Chromium	12.7	3	3	16	15.6	NoAB
567	1	Cobalt	7.43	3	3	14	1.37	NoB
567	1	Iron	18000	3	3	28000	3220	NoB
567	1	Lead	12.1	3	3	36	400	NoAB
567	1	Magnesium	1310	3	3	7700		NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
567	1	Manganese	1320	3	3	1500	419	NoB
567	1	Mercury	0.019	3	3	0.2	0.213	NoAB
567	1	Nickel	7.22	3	3	21	10.4	NoAB
567	1	Vanadium	18.7	3	3	38	0.0365	NoB
567	1	Zinc	25.7	3	3	65	1380	NoAB
567	1	Americium-241	-0.00121	3	3		1.5	NoA
567	1	Cesium-137	-0.00937	3	3	0.49	0.0267	NoAB
567	1	Neptunium-237	-0.00647	3	3	0.1	0.0839	NoAB
567	1	Plutonium-238	-0.00354	3	3	0.073	3.21	NoAB
567	1	Plutonium-239/240	0.000774	2	2	0.025	3.15	NoAB
567	1	Technetium-99	0.546	3	3	2.5	101	NoAB
567	1	Thorium-228	0.423	3	3	1.6		NoB
567	1	Thorium-230	0.323	3	3	1.5	4.1	NoAB
567	1	Thorium-232	0.409	3	3	1.5		NoB
567	1	Uranium-234	0.117	3	3	1.2	5.47	NoAB
567	1	Uranium-238	0.195	3	3	1.2	0.517	NoAB
567	2	PCB, Total	0.046	1	1		0.0648	NoA
567	3	Aluminum	8990	1	1	13000	4410	NoB
567	3	Arsenic	6.35	1	1	12	0.238	NoB
567	3	Barium	96.2	1	1	200	140	NoAB
567	3	Beryllium	0.481	1	1	0.67	0.00567	NoB
567	3	Calcium	1180	1	1	200000		NoB
567	3	Chromium	37.9	1	1	16	15.6	Yes
567	3	Cobalt	6.61	1	1	14	1.37	NoB
567	3	Iron	12900	1	1	28000	3220	NoB
567	3	Lead	14.2	1	1	36	400	NoAB
567	3	Magnesium	1220	1	1	7700		NoB
567	3	Manganese	392	1	1	1500	419	NoAB
567	3	Mercury	0.021	1	1	0.2	0.213	NoAB
567	3	Nickel	9.26	1	1	21	10.4	NoAB
567	3	Vanadium	20.6	1	1	38	0.0365	NoB
567	3	Zinc	36.2	1	1	65	1380	NoAB
567	3	Americium-241	-0.00573	1	1		1.5	NoA
567	3	Cesium-137	0.214	1	1	0.49	0.0267	NoB
567	3	Neptunium-237	0.00271	1	1	0.1	0.0839	NoAB
567	3	Plutonium-238	-0.00356	1	1	0.073	3.21	NoAB
567	3	Plutonium-239/240	0.00611	1	1	0.025	3.15	NoAB
567	3	Technetium-99	0.745	1	1	2.5	101	NoAB
567	3	Thorium-228	0.421	1	1	1.6		NoB
567	3	Thorium-230	0.325	1	1	1.5	4.1	NoAB
567	3	Thorium-232	0.417	1	1	1.5		NoB
567	3	Uranium-234	0.257	1	1	1.2	5.47	NoAB
567	3	Uranium-238	0.989	1	1	1.2	0.517	NoB
567	4	Aluminum	13400	2	2	13000	4410	Yes
567	4	Arsenic	6.02	2	2	12	0.238	NoB
567	4	Barium	103	2	2	200	140	NoAB
567	4	Calcium	503	2	2	200000		NoB
567	4	Chromium	17.7	2	2	16	15.6	Yes
567	4	Cobalt	6.09	2	2	14	1.37	NoB
567	4	Iron	12000	2	2	28000	3220	NoB
567	4	Lead	13.3	2	2	36	400	NoAB
567	4	Magnesium	1150	2	2	7700		NoB
567	4	Manganese	579	2	2	1500	419	NoB
567	4	Mercury	0.03	2	2	0.2	0.213	NoAB
567	4	Nickel	6.66	2	2	21	10.4	NoAB
567	4	Uranium	4.71	3	1	4.9	13.8	NoAB
567	4	Vanadium	28.9	2	2	38	0.0365	NoB
567	4	Zinc	27.8	2	2	65	1380	NoAB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
567	4	Alpha activity	23.8	1	1			NoC
567	4	Americium-241	0.007	3	3		1.5	NoA
567	4	Beta activity	28.8	1	1			NoC
567	4	Cesium-137	0.151	3	3	0.49	0.0267	NoB
567	4	Neptunium-237	-0.0031	3	3	0.1	0.0839	NoAB
567	4	Plutonium-238	0.015	3	3	0.073	3.21	NoAB
567	4	Plutonium-239/240	0.0056	3	3	0.025	3.15	NoAB
567	4	Technetium-99	0.571	3	3	2.5	101	NoAB
567	4	Thorium-228	0.88	3	3	1.6		NoB
567	4	Thorium-230	1	3	3	1.5	4.1	NoAB
567	4	Thorium-232	0.95	3	3	1.5		NoB
567	4	Uranium-234	0.81	3	3	1.2	5.47	NoAB
567	4	Uranium-235	0.067	1	1	0.06	0.122	NoA
567	4	Uranium-238	1.57	3	3	1.2	0.517	Yes
74	1	Acenaphthene	0.35	1	1		117	NoA
74	1	Acetone	14	4	4			NoC
74	1	Anthracene	0.51	1	1		747	NoA
74	1	Dibenzofuran	0.28	1	1			NoC
74	1	Fluoranthene	1.7	1	1		109	NoA
74	1	Fluorene	0.4	1	1		91.5	NoA
74	1	Naphthalene	0.52	1	1		1.15	NoA
74	1	PCB, Total	2.9748	6	6		0.0648	Yes
74	1	Phenanthrene	1.2	1	1			NoC
74	1	Pyrene	1.7	1	1		81.2	NoA
74	1	Total PAH	3.1616	1	1		0.0197	Yes
74	1	Cesium-137	0.48	1	1	0.49	0.0267	NoB
74	1	Neptunium-237	0.00881	1	1	0.1	0.0839	NoAB
74	1	Plutonium-239/240	0.0438	1	1	0.025	3.15	NoA
74	1	Uranium-234	7.55	1	1	1.2	5.47	Yes
74	1	Uranium-238	38.5	1	1	1.2	0.517	Yes
75	1	Aluminum	1660	1	1	13000	4410	NoAB
75	1	Antimony	0.14	1	1	0.21	0.552	NoAB
75	1	Arsenic	3.4	1	1	12	0.238	NoB
75	1	Barium	24	1	1	200	140	NoAB
75	1	Benzo(ghi)perylene	0.1	1	1			NoC
75	1	Beryllium	0.2	1	1	0.67	0.00567	NoB
75	1	Cadmium	1.1	1	1	0.21	0.811	Yes
75	1	Calcium	397000	1	1	200000		NoE
75	1	Chromium	71.72	1	1	16	15.6	Yes
75	1	Cobalt	2.2	1	1	14	1.37	NoB
75	1	Copper	315	1	1	19	184	Yes
75	1	Fluoranthene	0.4	1	1		109	NoA
75	1	Iron	5550	1	1	28000	3220	NoB
75	1	Lead	60.8	1	1	36	400	NoA
75	1	Magnesium	2570	1	1	7700		NoB
75	1	Manganese	97.8	1	1	1500	419	NoAB
75	1	Molybdenum	0.35	1	1		23	NoA
75	1	Nickel	88.72	1	1	21	10.4	Yes
75	1	PCB, Total	0.23	3	3		0.0648	Yes
75	1	Phenanthrene	0.25	1	1			NoC
75	1	Pyrene	0.34	1	1		81.2	NoA
75	1	Selenium	0.41	1	1	0.8	23	NoAB
75	1	Silver	0.11	1	1	2.3	2.61	NoAB
75	1	Sodium	172	1	1	320		NoB
75	1	Total PAH	0.22137	1	1		0.0197	Yes
75	1	Uranium	3.09	2	2	4.9	13.8	NoAB
75	1	Vanadium	8.2	1	1	38	0.0365	NoB
75	1	Zinc	242.4	1	1	65	1380	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
75	1	Alpha activity	17.2	2	2			NoC
75	1	Americium-241	0.004	2	2		1.5	NoA
75	1	Beta activity	19.9	2	2			NoC
75	1	Cesium-137	0.149	2	2	0.49	0.0267	NoB
75	1	Neptunium-237	0.004	2	2	0.1	0.0839	NoAB
75	1	Plutonium-238	0.011	2	2	0.073	3.21	NoAB
75	1	Plutonium-239/240	0.0059	2	2	0.025	3.15	NoAB
75	1	Technetium-99	0.15	2	2	2.5	101	NoAB
75	1	Thorium-228	0.223	2	2	1.6		NoB
75	1	Thorium-230	0.404	2	2	1.5	4.1	NoAB
75	1	Thorium-232	0.201	2	2	1.5		NoB
75	1	Uranium-234	0.448	2	2	1.2	5.47	NoAB
75	1	Uranium-235	0.025	2	2	0.06	0.122	NoAB
75	1	Uranium-238	1.04	2	2	1.2	0.517	NoB
76	1	Acenaphthene	0.11	1	1		117	NoA
76	1	Acenaphthylene	0.29	1	1			NoC
76	1	Aluminum	5990	1	1	13000	4410	NoB
76	1	Anthracene	0.62	1	1		747	NoA
76	1	Arsenic	7.8	1	1	12	0.238	NoB
76	1	Barium	269	1	1	200	140	Yes
76	1	Benzo(ghi)perylene	0.54	1	1			NoC
76	1	Beryllium	0.3	1	1	0.67	0.00567	NoB
76	1	Cadmium	0.26	1	1	0.21	0.811	NoA
76	1	Calcium	138000	1	1	200000		NoB
76	1	Chromium	15.6	1	1	16	15.6	NoB
76	1	Cobalt	4.8	1	1	14	1.37	NoB
76	1	Copper	7.9	1	1	19	184	NoAB
76	1	Dibenzofuran	0.077	1	1			NoC
76	1	Fluoranthene	2.3	1	1		109	NoA
76	1	Fluorene	0.12	1	1		91.5	NoA
76	1	Iron	12000	1	1	28000	3220	NoB
76	1	Lead	22.1	1	1	36	400	NoAB
76	1	Magnesium	4010	1	1	7700		NoB
76	1	Manganese	437	1	1	1500	419	NoB
76	1	Mercury	0.0222	1	1	0.2	0.213	NoAB
76	1	Nickel	9.4	1	1	21	10.4	NoAB
76	1	PCB, Total	0.26	1	1		0.0648	Yes
76	1	Phenanthrene	0.81	1	1			NoC
76	1	Pyrene	1.8	1	1		81.2	NoA
76	1	Selenium	0.97	1	1	0.8	23	NoA
76	1	Silver	0.063	1	1	2.3	2.61	NoAB
76	1	Sodium	92.3	1	1	320		NoB
76	1	Thallium	0.18	1	1	0.21	0.368	NoAB
76	1	Total PAH	1.7582	1	1		0.0197	Yes
76	1	Uranium	4.36	1	1	4.9	13.8	NoAB
76	1	Vanadium	24.4	1	1	38	0.0365	NoB
76	1	Zinc	68.27	1	1	65	1380	NoA
76	1	Alpha activity	26.3	1	1			NoC
76	1	Americium-241	0.011	1	1		1.5	NoA
76	1	Beta activity	25.1	1	1			NoC
76	1	Cesium-137	0.018	1	1	0.49	0.0267	NoAB
76	1	Neptunium-237	0.0029	1	1	0.1	0.0839	NoAB
76	1	Plutonium-238	0.008	1	1	0.073	3.21	NoAB
76	1	Plutonium-239/240	0.015	1	1	0.025	3.15	NoAB
76	1	Technetium-99	0.42	1	1	2.5	101	NoAB
76	1	Thorium-228	0.73	1	1	1.6		NoB
76	1	Thorium-230	0.93	1	1	1.5	4.1	NoAB
76	1	Thorium-232	0.69	1	1	1.5		NoB

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
76	1	Uranium-234	1.01	1	1	1.2	5.47	NoAB
76	1	Uranium-235	0.091	1	1	0.06	0.122	NoA
76	1	Uranium-238	1.45	1	1	1.2	0.517	Yes
78	1	1,1,1-Trichloroethane	0.001	2	1			NoC
78	1	2,4-Dimethylphenol	0.22	2	2			NoC
78	1	2-Methylnaphthalene	10	2	2			NoC
78	1	2-Methylphenol	0.099	2	1			NoC
78	1	Acenaphthene	17	2	2		117	NoA
78	1	Acenaphthylene	3.6	2	2			NoC
78	1	Aluminum	2270	2	2	13000	4410	NoAB
78	1	Anthracene	23	2	2		747	NoA
78	1	Arsenic	2.2	6	2	12	0.238	NoB
78	1	Barium	93.1	6	6	200	140	NoAB
78	1	Benzo(ghi)perylene	13	2	2			NoC
78	1	Beryllium	0.34	3	2	0.67	0.00567	NoB
78	1	Cadmium	2.36	6	3	0.21	0.811	Yes
78	1	Calcium	200000	2	2	200000		NoE
78	1	Chromium	37.5	6	6	16	15.6	Yes
78	1	Cobalt	4.3	2	2	14	1.37	NoB
78	1	Copper	21	3	3	19	184	NoA
78	1	Dibenzofuran	9.1	2	2			NoC
78	1	Fluoranthene	60	2	2		109	NoA
78	1	Fluorene	17	2	2		91.5	NoA
78	1	Iron	11800	3	3	28000	3220	NoB
78	1	Lead	52	6	2	36	400	NoA
78	1	Magnesium	5040	2	2	7700		NoB
78	1	Manganese	206	2	2	1500	419	NoAB
78	1	Naphthalene	16	2	2		1.15	Yes
78	1	Nickel	21.5	3	3	21	10.4	Yes
78	1	PCB, Total	12	6	3		0.0648	Yes
78	1	Phenanthrene	63	2	2			NoC
78	1	Pyrene	41	2	2		81.2	NoA
78	1	Sodium	205	2	2	320		NoB
78	1	Tetrachloroethene	0.003	2	1		0.113	NoA
78	1	Toluene	0.003	2	1			NoC
78	1	Total PAH	39.119	2	2		0.0197	Yes
78	1	Trichloroethene	0.0008	2	1		0.0234	NoA
78	1	Vanadium	11.5	2	2	38	0.0365	NoB
78	1	Zinc	387	3	3	65	1380	NoA
78	1	Americium-241	0.0337	4	4		1.5	NoA
78	1	Cesium-137	0.027	4	4	0.49	0.0267	NoB
78	1	Cobalt-60	0.00591	1	1		0.00547	Yes
78	1	Neptunium-237	0.0136	4	4	0.1	0.0839	NoAB
78	1	Plutonium-238	0.016	4	4	0.073	3.21	NoAB
78	1	Plutonium-239/240	0.00129	4	4	0.025	3.15	NoAB
78	1	Technetium-99	1.74	1	1	2.5	101	NoAB
78	1	Thorium-228	0.42	4	4	1.6		NoB
78	1	Thorium-230	0.371	4	4	1.5	4.1	NoAB
78	1	Thorium-232	0.424	4	4	1.5		NoB
78	1	Uranium-234	0.978	3	3	1.2	5.47	NoAB
78	1	Uranium-235	0.264	1	1	0.06	0.122	Yes
78	1	Uranium-238	5.29	4	4	1.2	0.517	Yes
80	1	Aluminum	9320	1	1	13000	4410	NoB
80	1	Antimony	0.91	1	1	0.21	0.552	Yes
80	1	Arsenic	10.07	1	1	12	0.238	NoB
80	1	Barium	109	1	1	200	140	NoAB
80	1	Benzo(ghi)perylene	0.087	1	1			NoC
80	1	Beryllium	0.78	2	2	0.67	0.00567	Yes

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
80	1	Cadmium	0.18	1	1	0.21	0.811	NoAB
80	1	Calcium	49100	1	1	200000		NoB
80	1	Chromium	165	2	2	16	15.6	Yes
80	1	Cobalt	7.7	1	1	14	1.37	NoB
80	1	Copper	13.1	1	1	19	184	NoAB
80	1	Fluoranthene	0.2	1	1		109	NoA
80	1	Iron	16749.38	1	1	28000	3220	NoB
80	1	Lead	18.9	1	1	36	400	NoAB
80	1	Magnesium	3450	1	1	7700		NoB
80	1	Manganese	376	1	1	1500	419	NoAB
80	1	Mercury	0.45	2	2	0.2	0.213	Yes
80	1	Molybdenum	0.77	1	1		23	NoA
80	1	Nickel	12.4	1	1	21	10.4	NoB
80	1	PCB, Total	26	34	29		0.0648	Yes
80	1	Phenanthrene	0.11	1	1			NoC
80	1	Pyrene	0.17	1	1		81.2	NoA
80	1	Selenium	1.1	1	1	0.8	23	NoA
80	1	Silver	0.045	1	1	2.3	2.61	NoAB
80	1	Sodium	47.1	1	1	320		NoB
80	1	Thallium	0.16	1	1	0.21	0.368	NoAB
80	1	Total PAH	0.14165	1	1		0.0197	Yes
80	1	Uranium	5724	2	2	4.9	13.8	Yes
80	1	Vanadium	25.9	1	1	38	0.0365	NoB
80	1	Zinc	61.65	1	1	65	1380	NoAB
80	1	Alpha activity	30.3	1	1			NoC
80	1	Americium-241	6.4	2	2		1.5	Yes
80	1	Beta activity	27.8	1	1			NoC
80	1	Cesium-137	0.271	2	2	0.49	0.0267	NoB
80	1	Cobalt-60	-0.00104	1	1		0.00547	NoA
80	1	Neptunium-237	0.505	2	2	0.1	0.0839	Yes
80	1	Plutonium-238	0.131	2	2	0.073	3.21	NoA
80	1	Plutonium-239/240	0.438	2	2	0.025	3.15	NoA
80	1	Technetium-99	29.5	2	2	2.5	101	NoA
80	1	Thorium-228	0.97	2	2	1.6		NoB
80	1	Thorium-230	4.4	2	2	1.5	4.1	Yes
80	1	Thorium-232	0.87	2	2	1.5		NoB
80	1	Uranium-234	229	2	2	1.2	5.47	Yes
80	1	Uranium-235	30	2	2	0.06	0.122	Yes
80	1	Uranium-238	1921	2	2	1.2	0.517	Yes
81	1	2-Methylnaphthalene	0.082	4	1			NoC
81	1	Acenaphthene	0.28	4	1		117	NoA
81	1	Aluminum	13000	4	4	13000	4410	Yes
81	1	Anthracene	0.36	4	1		747	NoA
81	1	Antimony	0.41	4	1	0.21	0.552	NoA
81	1	Arsenic	13.71	23	17	12	0.238	Yes
81	1	Barium	106	4	4	200	140	NoAB
81	1	Benzo(ghi)perylene	0.36	4	1			NoC
81	1	Beryllium	1	4	4	0.67	0.00567	Yes
81	1	Bis(2-ethylhexyl)phthalate	0.45	4	1			NoC
81	1	Cadmium	0.095	1	1	0.21	0.811	NoAB
81	1	Calcium	19100	4	4	200000		NoB
81	1	Chromium	108.06	23	11	16	15.6	Yes
81	1	Cobalt	10.3	4	4	14	1.37	NoB
81	1	Copper	27.18	23	6	19	184	NoA
81	1	Dibenzofuran	0.14	4	1			NoC
81	1	Fluoranthene	1.5	4	1		109	NoA
81	1	Fluorene	0.22	4	1		91.5	NoA

SWMU = solid waste management unit
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COPC = chemical of potential concernt
NAL = no action limit
A = <Child Resident NAL C = no NAL available
B = <Background E = essential nutrient

Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
81	1	Iron	25900	23	23	28000	3220	NoB
81	1	Lead	21.9	23	22	36	400	NoAB
81	1	Magnesium	2470	4	3	7700		NoB
81	1	Manganese	1375.28	23	22	1500	419	NoB
81	1	Mercury	8.33	23	2	0.2	0.213	Yes
81	1	Molybdenum	0.98	20	1		23	NoA
81	1	Naphthalene	0.39	4	1		1.15	NoA
81	1	Nickel	81.89	23	7	21	10.4	Yes
81	1	PCB, Total	370	46	33		0.0648	Yes
81	1	Phenanthrene	1.4	4	1			NoC
81	1	Pyrene	1.2	4	1		81.2	NoA
81	1	Selenium	1	23	1	0.8	23	NoA
81	1	Silver	2.7	23	4	2.3	2.61	Yes
81	1	Sodium	64	4	3	320		NoB
81	1	Thallium	0.11	4	1	0.21	0.368	NoAB
81	1	Total PAH	0.77873	4	1		0.0197	Yes
81	1	Uranium	6500	39	20	4.9	13.8	Yes
81	1	Vanadium	29.8	4	3	38	0.0365	NoB
81	1	Zinc	131.88	23	22	65	1380	NoA
81	1	Alpha activity	45.3	2	2			NoC
81	1	Americium-241	0.011	2	2		1.5	NoA
81	1	Beta activity	37.7	2	2			NoC
81	1	Cesium-137	0.088	2	2	0.49	0.0267	NoB
81	1	Neptunium-237	0	2	2	0.1	0.0839	NoAB
81	1	Plutonium-238	0.018	2	2	0.073	3.21	NoAB
81	1	Plutonium-239/240	0.0086	2	2	0.025	3.15	NoAB
81	1	Technetium-99	0.54	2	2	2.5	101	NoAB
81	1	Thorium-228	1.22	2	2	1.6		NoB
81	1	Thorium-230	3.1	2	2	1.5	4.1	NoA
81	1	Thorium-232	1.32	2	2	1.5		NoB
81	1	Uranium-234	2.5	2	2	1.2	5.47	NoA
81	1	Uranium-235	0.112	2	2	0.06	0.122	NoA
81	1	Uranium-238	2.67	2	2	1.2	0.517	Yes
99	1	Aluminum	8820	2	2	13000	4410	NoB
99	1	Arsenic	9.08	16	8	12	0.238	NoB
99	1	Barium	76.7	2	2	200	140	NoAB
99	1	Calcium	43000	2	2	200000		NoB
99	1	Chromium	55.1	16	8	16	15.6	Yes
99	1	Cobalt	5.23	2	2	14	1.37	NoB
99	1	Copper	9.28	16	2	19	184	NoAB
99	1	Iron	13744.91	16	16	28000	3220	NoB
99	1	Lead	16.61	16	14	36	400	NoAB
99	1	Magnesium	2350	2	2	7700		NoB
99	1	Manganese	601.33	16	16	1500	419	NoB
99	1	Mercury	9.53	16	1	0.2	0.213	Yes
99	1	Molybdenum	16	16	2		23	NoA
99	1	Nickel	70.21	16	3	21	10.4	Yes
99	1	Silver	10.3	16	1	2.3	2.61	Yes
99	1	Uranium	4.53	16	2	4.9	13.8	NoAB
99	1	Vanadium	23.6	2	2	38	0.0365	NoB
99	1	Zinc	471.82	16	16	65	1380	NoA
99	1	Americium-241	-0.0138	2	2		1.5	NoA
99	1	Cesium-137	0.202	2	2	0.49	0.0267	NoB
99	1	Cobalt-60	0.0212	2	2		0.00547	Yes
99	1	Neptunium-237	0.00503	2	2	0.1	0.0839	NoAB
99	1	Plutonium-238	-0.00818	2	2	0.073	3.21	NoAB
99	1	Plutonium-239/240	0.0103	2	2	0.025	3.15	NoAB
99	1	Technetium-99	3.73	2	2	2.5	101	NoA

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Table D.4. Surface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Surface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
99	1	Thorium-228	0.333	2	2	1.6		NoB
99	1	Thorium-230	0.302	2	2	1.5	4.1	NoAB
99	1	Thorium-232	0.3	2	2	1.5		NoB
99	1	Uranium-234	0.506	2	2	1.2	5.47	NoAB
99	1	Uranium-235	0.0425	2	2	0.06	0.122	NoAB
99	1	Uranium-238	1.3	2	2	1.2	0.517	Yes

SWMU = solid waste management unit
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COPC = chemical of potential concernt
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A = <Child Resident NAL C = no NAL available
B = <Background E = essential nutrient

Table D.5. Subsurface Soil COPCs

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
1	1	Acetone	0.097	10	4			NoC
1	1	Aluminum	14300	31	30	12000	4410	Yes
1	1	Americium-241	0.998	3	3		1.5	NoA
1	1	Antimony	5	24	10	0.21	0.552	Yes
1	1	Arsenic	10.7	31	30	7.9	0.238	Yes
1	1	Barium	247	31	31	170	140	Yes
1	1	Benzoic acid	0.066	24	2			NoC
1	1	Beryllium	7.8	31	30	0.69	0.00567	Yes
1	1	Bis(2-ethylhexyl)phthalate	0.3	28	9			NoC
1	1	Cadmium	3.08	31	11	0.21	0.811	Yes
1	1	Calcium	5190	31	31	6100		NoBE
1	1	Carbon disulfide	0.001	3	1			NoC
1	1	Cesium-137	0.753	3	3	0.28	0.0267	Yes
1	1	Chlorobenzene	0.001	10	1			NoC
1	1	Chloroform	0.004	3	1		0.122	NoA
1	1	Chromium	56.2	31	31	43	15.6	Yes
1	1	cis-1,2-Dichloroethene	0.046	32	2		1.05	NoA
1	1	Cobalt	15.4	31	31	13	1.37	Yes
1	1	Cobalt-60	0.00537	3	3		0.00547	NoA
1	1	Copper	16.3	31	31	25	184	NoAB
1	1	Di-n-butyl phthalate	0.067	28	7			NoC
1	1	Iron	23500	31	31	28000	3220	NoB
1	1	Lead	22.2	31	29	23	400	NoAB
1	1	Magnesium	2190	31	31	2100		NoE
1	1	Manganese	1990	31	31	820	419	Yes
1	1	Mercury	0.0487	31	16	0.13	0.213	NoAB
1	1	Methylene chloride	0.05	10	2			NoC
1	1	Neptunium-237	0.663	3	3		0.0839	Yes
1	1	Nickel	26.8	31	31	22	10.4	Yes
1	1	PCB, Total	0.199	37	1		0.0648	Yes
1	1	Pentachlorophenol	0.11	24	1			NoC
1	1	Plutonium-238	0.111	3	3		3.21	NoA
1	1	Plutonium-239/240	9.05	3	3		3.15	Yes
1	1	Selenium	0.56	31	13	0.7	23	NoAB
1	1	Sodium	489	31	27	340		NoE
1	1	Technetium-99	8.29	3	3	2.8	101	NoA
1	1	Thallium	1.56	24	6	0.34	0.368	Yes
1	1	Thorium-228	0.764	3	3	1.6		NoB
1	1	Thorium-230	65	3	3	1.4	4.1	Yes
1	1	Thorium-232	0.794	3	3	1.5		NoB
1	1	Toluene	0.004	13	5			NoC
1	1	Trichloroethene	0.69	46	7		0.0234	Yes
1	1	Uranium	9.86	3	3	4.6	13.8	NoA
1	1	Uranium-234	3.44	3	3	1.2	5.47	NoA
1	1	Uranium-235	0.193	3	3	0.06	0.122	Yes
1	1	Uranium-238	3.31	3	3	1.2	0.517	Yes
1	1	Vanadium	53.3	31	31	37	0.0365	Yes
1	1	Zinc	60.2	31	31	60	1380	NoA
1	2	1,1,1-Trichloroethane	0.0005	12	1			NoC
1	2	1,1-Dichloroethane	0.5	20	1			NoC
1	2	1,2-Dichlorobenzene	0.12	33	2			NoC
1	2	Acetone	0.4	12	4			NoC
1	2	Aluminum	12400	28	28	12000	4410	Yes
1	2	Arsenic	11.5	28	28	7.9	0.238	Yes
1	2	Barium	181	28	28	170	140	Yes
1	2	Benzoic acid	3.8	31	1			NoC

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
1	2	Beryllium	10.5	28	27	0.69	0.00567	Yes
1	2	Bis(2-ethylhexyl)phthalate	1.5	32	7			NoC
1	2	Cadmium	6.5	28	11	0.21	0.811	Yes
1	2	Calcium	7410	28	28	6100		NoE
1	2	Carbon disulfide	0.002	12	1			NoC
1	2	Chloroform	0.0002	12	1		0.122	NoA
1	2	Chromium	258	28	28	43	15.6	Yes
1	2	cis-1,2-Dichloroethene	2400	43	9		1.05	Yes
1	2	Cobalt	11.3	28	28	13	1.37	NoB
1	2	Copper	231	28	28	25	184	Yes
1	2	Di-n-butyl phthalate	22	32	4			NoC
1	2	Iron	23753.2	28	28	28000	3220	NoB
1	2	Lead	323	28	28	23	400	NoA
1	2	m,p-Cresol	2.3	5	1			NoC
1	2	Magnesium	2080	28	28	2100		NoBE
1	2	Manganese	902	28	28	820	419	Yes
1	2	Mercury	7.7	28	21	0.13	0.213	Yes
1	2	Methylene chloride	0.065	12	3			NoC
1	2	Nickel	85.4	28	28	22	10.4	Yes
1	2	N-Nitrosodiphenylamine	0.064	30	3			NoC
1	2	PCB, Total	35	87	23		0.0648	Yes
1	2	Pentachlorophenol	0.055	32	1			NoC
1	2	Phenol	17	31	1			NoC
1	2	Selenium	0.98	28	7	0.7	23	NoA
1	2	Silver	73.9	28	5	2.7	2.61	Yes
1	2	Sodium	434	28	27	340		NoE
1	2	Thallium	0.37	28	6	0.34	0.368	Yes
1	2	trans-1,2-Dichloroethene	16	41	16		2.43	Yes
1	2	Trichloroethene	87	54	29		0.0234	Yes
1	2	Vanadium	42.1	28	28	37	0.0365	Yes
1	2	Vinyl chloride	4.8	50	5		0.0824	Yes
1	2	Zinc	390	28	28	60	1380	NoA
1	3	Aluminum	10500	10	10	12000	4410	NoB
1	3	Americium-241	-0.0194	1	1		1.5	NoA
1	3	Antimony	0.784	8	1	0.21	0.552	Yes
1	3	Arsenic	10.5	13	10	7.9	0.238	Yes
1	3	Barium	197	13	13	170	140	Yes
1	3	Beryllium	0.484	10	9	0.69	0.00567	NoB
1	3	Bis(2-ethylhexyl)phthalate	0.1	8	2			NoC
1	3	Butyl benzyl phthalate	0.2	8	1			NoC
1	3	Cadmium	3.32	8	8	0.21	0.811	Yes
1	3	Calcium	7650	10	10	6100		NoE
1	3	Cesium-137	0.112	1	1	0.28	0.0267	NoB
1	3	Chromium	17.1	13	13	43	15.6	NoB
1	3	Cobalt	4.72	10	10	13	1.37	NoB
1	3	Cobalt-60	-0.0226	1	1		0.00547	NoA
1	3	Copper	17.3	10	10	25	184	NoAB
1	3	Di-n-butyl phthalate	0.05	8	1			NoC
1	3	Iron	15100	10	10	28000	3220	NoB
1	3	Lead	19.7	13	10	23	400	NoAB
1	3	Magnesium	2310	10	10	2100		NoE
1	3	Manganese	881	10	10	820	419	Yes
1	3	Mercury	0.176	13	9	0.13	0.213	NoA
1	3	Neptunium-237	-0.00333	1	1		0.0839	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
1	3	Nickel	29.7	13	9	22	10.4	Yes
1	3	PCB, Total	0.365	19	5		0.0648	Yes
1	3	Plutonium-238	-0.00159	1	1		3.21	NoA
1	3	Plutonium-239/240	0.00959	1	1		3.15	NoA
1	3	Selenium	0.227	13	3	0.7	23	NoAB
1	3	Silver	0.00185	8	1	2.7	2.61	NoAB
1	3	Sodium	570	10	10	340		NoE
1	3	Technetium-99	0.343	1	1	2.8	101	NoAB
1	3	Thallium	0.151	8	3	0.34	0.368	NoAB
1	3	Thorium-228	0.35	1	1	1.6		NoB
1	3	Thorium-230	0.46	1	1	1.4	4.1	NoAB
1	3	Thorium-232	0.418	1	1	1.5		NoB
1	3	Trichloroethene	0.015	4	2		0.0234	NoA
1	3	Uranium	5.15	1	1	4.6	13.8	NoA
1	3	Uranium-234	1.27	1	1	1.2	5.47	NoA
1	3	Uranium-235	0.0793	1	1	0.06	0.122	NoA
1	3	Uranium-238	1.73	1	1	1.2	0.517	Yes
1	3	Vanadium	24.9	10	10	37	0.0365	NoB
1	3	Zinc	59.2	10	10	60	1380	NoAB
1	4	1,1,1-Trichloroethane	0.013	2	1			NoC
1	4	Aluminum	11900	14	14	12000	4410	NoB
1	4	Americium-241	0.0992	1	1		1.5	NoA
1	4	Antimony	0.013	11	1	0.21	0.552	NoAB
1	4	Arsenic	7.06	14	13	7.9	0.238	NoB
1	4	Barium	141	14	14	170	140	NoB
1	4	Benzene	0.009	2	1		0.333	NoA
1	4	Beryllium	1.07	14	13	0.69	0.00567	Yes
1	4	Bis(2-ethylhexyl)phthalate	0.7	13	2			NoC
1	4	Cadmium	3.35	14	12	0.21	0.811	Yes
1	4	Calcium	8840	14	14	6100		NoE
1	4	Cesium-137	0.337	1	1	0.28	0.0267	Yes
1	4	Chromium	137	14	14	43	15.6	Yes
1	4	Cobalt	7.37	14	14	13	1.37	NoB
1	4	Cobalt-60	0.022	1	1		0.00547	Yes
1	4	Copper	46.6	14	14	25	184	NoA
1	4	Fluoranthene	0.62	3	1		109	NoA
1	4	Iron	24800	14	14	28000	3220	NoB
1	4	Lead	18	14	12	23	400	NoAB
1	4	Magnesium	2630	14	14	2100		NoE
1	4	Manganese	363	14	14	820	419	NoAB
1	4	Mercury	0.18	14	12	0.13	0.213	NoA
1	4	Neptunium-237	0.000571	1	1		0.0839	NoA
1	4	Nickel	63.8	14	14	22	10.4	Yes
1	4	PCB, Total	0.13	15	1		0.0648	Yes
1	4	Phenanthrene	0.6	3	1			NoC
1	4	Phenol	1.8	15	2			NoC
1	4	Plutonium-238	-0.00225	1	1		3.21	NoA
1	4	Plutonium-239/240	0.919	1	1		3.15	NoA
1	4	Pyrene	0.68	3	1		81.2	NoA
1	4	Selenium	0.171	14	2	0.7	23	NoAB
1	4	Silver	0.576	11	1	2.7	2.61	NoAB
1	4	Sodium	421	14	13	340		NoE
1	4	Technetium-99	4.86	1	1	2.8	101	NoA
1	4	Thallium	0.258	11	7	0.34	0.368	NoAB
1	4	Thorium-228	0.435	1	1	1.6		NoB
1	4	Thorium-230	5.03	1	1	1.4	4.1	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
1	4	Thorium-232	0.504	1	1	1.5		NoB
1	4	Trichloroethene	0.19	23	1		0.0234	Yes
1	4	Uranium	3.04	1	1	4.6	13.8	NoAB
1	4	Uranium-234	0.47	1	1	1.2	5.47	NoAB
1	4	Uranium-235	0.0226	1	1	0.06	0.122	NoAB
1	4	Uranium-238	0.597	1	1	1.2	0.517	NoB
1	4	Vanadium	40.2	14	14	37	0.0365	Yes
1	4	Zinc	118	14	14	60	1380	NoA
1	5	2-Methylnaphthalene	0.09	5	1			NoC
1	5	Acetone	0.12	6	3			NoC
1	5	Aluminum	12000	19	19	12000	4410	Yes
1	5	Americium-241	0.000857	1	1		1.5	NoA
1	5	Arsenic	16.7	19	18	7.9	0.238	Yes
1	5	Barium	215	19	19	170	140	Yes
1	5	Beryllium	8.3	19	17	0.69	0.00567	Yes
1	5	Bis(2-ethylhexyl)phthalate	0.13	18	7			NoC
1	5	Cadmium	2.97	19	8	0.21	0.811	Yes
1	5	Calcium	31000	19	19	6100		NoE
1	5	Carbon disulfide	0.002	6	3			NoC
1	5	Cesium-137	0.0878	1	1	0.28	0.0267	NoB
1	5	Chromium	15.7	19	18	43	15.6	NoB
1	5	Cobalt	14.3	19	18	13	1.37	Yes
1	5	Cobalt-60	-0.00558	1	1		0.00547	NoA
1	5	Copper	15.2	19	19	25	184	NoAB
1	5	Fluoranthene	0.62	6	3		109	NoA
1	5	Iron	19100	19	19	28000	3220	NoB
1	5	Lead	18.9	19	17	23	400	NoAB
1	5	Magnesium	11200	19	19	2100		NoE
1	5	Manganese	2160	19	19	820	419	Yes
1	5	Mercury	0.104	19	9	0.13	0.213	NoAB
1	5	Methylene chloride	0.14	9	4			NoC
1	5	Molybdenum	14.2	1	1		23	NoA
1	5	Naphthalene	0.063	6	1		1.15	NoA
1	5	Neptunium-237	-0.00169	1	1		0.0839	NoA
1	5	Nickel	40.7	19	19	22	10.4	Yes
1	5	PCB, Total	0.27	19	2		0.0648	Yes
1	5	Phenanthrene	0.055	6	2			NoC
1	5	Plutonium-238	-0.00863	1	1		3.21	NoA
1	5	Plutonium-239/240	0.00221	1	1		3.15	NoA
1	5	Pyrene	0.49	6	3		81.2	NoA
1	5	Selenium	0.59	19	6	0.7	23	NoAB
1	5	Sodium	471	19	14	340		NoE
1	5	Technetium-99	3.33	1	1	2.8	101	NoA
1	5	Thallium	0.198	13	7	0.34	0.368	NoAB
1	5	Thorium-228	0.252	1	1	1.6		NoB
1	5	Thorium-230	0.337	1	1	1.4	4.1	NoAB
1	5	Thorium-232	0.159	1	1	1.5		NoB
1	5	Total PAH	0.098307	6	3		0.0197	Yes
1	5	Uranium	2.86	1	1	4.6	13.8	NoAB
1	5	Uranium-234	0.947	1	1	1.2	5.47	NoAB
1	5	Uranium-235	0.0621	1	1	0.06	0.122	NoA
1	5	Uranium-238	0.65	1	1	1.2	0.517	NoB
1	5	Vanadium	27.2	19	18	37	0.0365	NoB
1	5	Zinc	87.2	19	19	60	1380	NoA
12	1	1,1,1-Trichloroethane	0.159	13	2			NoC
12	1	1,1,2-Trichloroethane	0.149	13	2			NoC

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
12	1	1,1-Dichloroethane	0.378	13	2			NoC
12	1	1,1-Dichloroethene	1.66	13	2		0.0237	Yes
12	1	1,2-Dichloroethane	0.0163	13	2			NoC
12	1	Acenaphthylene	0.019	10	1			NoC
12	1	Acetone	0.83	13	2			NoC
12	1	Alpha activity	359	3	3			NoC
12	1	Aluminum	14800	35	35	12000	4410	Yes
12	1	Americium-241	0.016	11	11		1.5	NoA
12	1	Anthracene	0.021	10	1		747	NoA
12	1	Antimony	0.9	35	19	0.21	0.552	Yes
12	1	Arsenic	85.9	179	102	7.9	0.238	Yes
12	1	Barium	657	35	35	170	140	Yes
12	1	Benzo(ghi)perylene	0.21	10	2			NoC
12	1	Benzoic acid	0.044	10	1			NoC
12	1	Beryllium	24.4	35	23	0.69	0.00567	Yes
12	1	Beta activity	510	3	3			NoC
12	1	Bis(2-ethylhexyl)phthalate	0.28	10	1			NoC
12	1	Cadmium	3.3	35	21	0.21	0.811	Yes
12	1	Calcium	289000	35	35	6100		NoE
12	1	Cesium-137	0.053	11	11	0.28	0.0267	NoB
12	1	Chloroform	0.007	3	1		0.122	NoA
12	1	Chromium	72.62	179	102	43	15.6	Yes
12	1	cis-1,2-Dichloroethene	0.00897	9	2		1.05	NoA
12	1	Cobalt	107	35	34	13	1.37	Yes
12	1	Cobalt-60	0.0169	8	8		0.00547	Yes
12	1	Copper	137	179	45	25	184	NoA
12	1	Fluoranthene	0.2	10	6		109	NoA
12	1	Iron	112000	179	179	28000	3220	Yes
12	1	Lead	57.3	179	153	23	400	NoA
12	1	Magnesium	10300	35	35	2100		NoE
12	1	Manganese	4380	179	179	820	419	Yes
12	1	Mercury	8.8	179	24	0.13	0.213	Yes
12	1	Methylene chloride	0.18	13	2			NoC
12	1	Molybdenum	94.89	172	23		23	Yes
12	1	Neptunium-237	0.05	11	11		0.0839	NoA
12	1	Nickel	183.92	179	71	22	10.4	Yes
12	1	PCB, Total	0.73	159	9		0.0648	Yes
12	1	Phenanthrene	0.11	10	4			NoC
12	1	Plutonium-238	0.021	11	11		3.21	NoA
12	1	Plutonium-239/240	0.064	10	10		3.15	NoA
12	1	Pyrene	0.43	10	6		81.2	NoA
12	1	Selenium	4.65	178	17	0.7	23	NoA
12	1	Silver	17	176	27	2.7	2.61	Yes
12	1	Sodium	202	35	25	340		NoBE
12	1	Technetium-99	7.1	11	11	2.8	101	NoA
12	1	Tetrachloroethene	0.0062	13	1		0.113	NoA
12	1	Thallium	2	35	16	0.34	0.368	Yes
12	1	Thorium-228	0.72	11	11	1.6		NoB
12	1	Thorium-230	1.1	11	11	1.4	4.1	NoAB
12	1	Thorium-232	0.79	11	11	1.5		NoB
12	1	Toluene	0.0926	13	1			NoC
12	1	Total PAH	0.33958	10	6		0.0197	Yes
12	1	Trichloroethene	0.00808	13	2		0.0234	NoA
12	1	Uranium	4325.1	173	105	4.6	13.8	Yes
12	1	Uranium-234	25.1	11	11	1.2	5.47	Yes
12	1	Uranium-235	2.66	20	20	0.06	0.122	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
12	1	Uranium-238	117	11	11	1.2	0.517	Yes
12	1	Vanadium	58.3	35	34	37	0.0365	Yes
12	1	Zinc	238.68	179	176	60	1380	NoA
13	1	2-Butanone	0.017	4	4			NoC
13	1	Acetone	0.037	4	4			NoC
13	1	Aluminum	9780	5	5	12000	4410	NoB
13	1	Americium-241	0.00856	5	5		1.5	NoA
13	1	Barium	105	5	5	170	140	NoAB
13	1	Beryllium	0.94	4	4	0.69	0.00567	Yes
13	1	Cadmium	3.13	4	2	0.21	0.811	Yes
13	1	Calcium	22400	5	5	6100		NoE
13	1	Carbon disulfide	0.007	4	4			NoC
13	1	Cesium-137	0.0891	5	5	0.28	0.0267	NoB
13	1	Chromium	18.1	5	5	43	15.6	NoB
13	1	Cobalt	5.26	1	1	13	1.37	NoB
13	1	Cobalt-60	0.0102	5	5		0.00547	Yes
13	1	Copper	15.8	5	5	25	184	NoAB
13	1	Fluoranthene	0.85	4	1		109	NoA
13	1	Iron	9670	1	1	28000	3220	NoB
13	1	Magnesium	492	1	1	2100		NoBE
13	1	Manganese	601	1	1	820	419	NoB
13	1	Neptunium-237	0.0367	5	5		0.0839	NoA
13	1	Nickel	10.7	5	4	22	10.4	NoB
13	1	PCB, Total	0.7	1	1		0.0648	Yes
13	1	Phenanthrene	0.55	4	1			NoC
13	1	Plutonium-238	0.0123	5	5		3.21	NoA
13	1	Plutonium-239/240	0.0266	5	5		3.15	NoA
13	1	Pyrene	0.64	4	1		81.2	NoA
13	1	Technetium-99	4.6	4	4	2.8	101	NoA
13	1	Thorium-228	0.447	5	5	1.6		NoB
13	1	Thorium-230	0.457	5	5	1.4	4.1	NoAB
13	1	Thorium-232	0.534	5	5	1.5		NoB
13	1	Uranium-234	1.29	5	5	1.2	5.47	NoA
13	1	Uranium-235	0.0391	5	5	0.06	0.122	NoAB
13	1	Uranium-238	1.64	5	5	1.2	0.517	Yes
13	1	Vanadium	39.3	5	5	37	0.0365	Yes
13	1	Zinc	81	5	5	60	1380	NoA
13	2	2-Butanone	0.0096	2	1			NoC
13	2	Acetone	0.021	2	1			NoC
13	2	Aluminum	10200	2	2	12000	4410	NoB
13	2	Americium-241	0.0172	2	2		1.5	NoA
13	2	Barium	166	2	2	170	140	NoB
13	2	Beryllium	0.688	2	1	0.69	0.00567	NoB
13	2	Cadmium	1.85	2	1	0.21	0.811	Yes
13	2	Calcium	23200	2	2	6100		NoE
13	2	Carbon disulfide	0.0068	2	2			NoC
13	2	Cesium-137	0.0365	2	2	0.28	0.0267	NoB
13	2	Chromium	15.2	2	2	43	15.6	NoAB
13	2	Cobalt-60	0.00606	2	2		0.00547	Yes
13	2	Copper	10.3	2	2	25	184	NoAB
13	2	Lead	49.9	2	1	23	400	NoA
13	2	Neptunium-237	-0.00653	2	2		0.0839	NoA
13	2	Nickel	9.63	2	2	22	10.4	NoAB
13	2	Plutonium-238	0.0444	2	2		3.21	NoA
13	2	Plutonium-239/240	0.014	2	2		3.15	NoA
13	2	Technetium-99	0.92	1	1	2.8	101	NoAB
13	2	Thorium-228	0.503	2	2	1.6		NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
13	2	Thorium-230	0.521	2	2	1.4	4.1	NoAB
13	2	Thorium-232	0.482	2	2	1.5		NoB
13	2	Uranium-234	0.944	2	2	1.2	5.47	NoAB
13	2	Uranium-235	-0.0238	2	2	0.06	0.122	NoAB
13	2	Uranium-238	0.946	2	2	1.2	0.517	NoB
13	2	Vanadium	28.7	2	2	37	0.0365	NoB
13	2	Zinc	32.9	2	2	60	1380	NoAB
13	3	2-Butanone	0.017	2	1			NoC
13	3	Acetone	0.039	2	1			NoC
13	3	Aluminum	9240	2	2	12000	4410	NoB
13	3	Americium-241	-0.00618	2	2		1.5	NoA
13	3	Barium	88.7	2	2	170	140	NoAB
13	3	Beryllium	0.692	2	1	0.69	0.00567	Yes
13	3	Cadmium	2.2	2	1	0.21	0.811	Yes
13	3	Calcium	778	2	1	6100		NoBE
13	3	Carbon disulfide	0.007	2	1			NoC
13	3	Cesium-137	0.0448	2	2	0.28	0.0267	NoB
13	3	Chromium	17.2	2	2	43	15.6	NoB
13	3	Cobalt-60	0.024	2	2		0.00547	Yes
13	3	Copper	10	2	2	25	184	NoAB
13	3	Di-n-butyl phthalate	0.93	2	1			NoC
13	3	Neptunium-237	-0.000463	2	2		0.0839	NoA
13	3	Nickel	6.34	2	2	22	10.4	NoAB
13	3	Plutonium-238	0.00386	2	2		3.21	NoA
13	3	Plutonium-239/240	-0.00211	2	2		3.15	NoA
13	3	Technetium-99	1.17	2	2	2.8	101	NoAB
13	3	Thorium-228	0.427	2	2	1.6		NoB
13	3	Thorium-230	0.392	2	2	1.4	4.1	NoAB
13	3	Thorium-232	0.506	2	2	1.5		NoB
13	3	Uranium-234	0.391	2	2	1.2	5.47	NoAB
13	3	Uranium-235	0.00197	2	2	0.06	0.122	NoAB
13	3	Uranium-238	0.471	2	2	1.2	0.517	NoAB
13	3	Vanadium	39.1	2	2	37	0.0365	Yes
13	3	Zinc	31	2	1	60	1380	NoAB
13	4	2-Butanone	0.011	1	1			NoC
13	4	Acetone	0.022	1	1			NoC
13	4	Aluminum	7660	2	2	12000	4410	NoB
13	4	Americium-241	0.0179	2	2		1.5	NoA
13	4	Barium	111	2	2	170	140	NoAB
13	4	Beryllium	0.473	1	1	0.69	0.00567	NoB
13	4	Calcium	1780	2	2	6100		NoBE
13	4	Carbon disulfide	0.007	1	1			NoC
13	4	Cesium-137	0.127	2	2	0.28	0.0267	NoB
13	4	Chromium	11.9	2	2	43	15.6	NoAB
13	4	Cobalt	5.48	1	1	13	1.37	NoB
13	4	Cobalt-60	0.097	2	2		0.00547	Yes
13	4	Copper	9.6	2	2	25	184	NoAB
13	4	Di-n-butyl phthalate	0.6	1	1			NoC
13	4	Iron	11700	1	1	28000	3220	NoB
13	4	Magnesium	741	1	1	2100		NoBE
13	4	Manganese	480	1	1	820	419	NoB
13	4	Neptunium-237	0.151	2	2		0.0839	Yes
13	4	Nickel	9.01	2	2	22	10.4	NoAB
13	4	PCB, Total	0.43	1	1		0.0648	Yes
13	4	Plutonium-238	0.0324	2	2		3.21	NoA
13	4	Plutonium-239/240	0.0293	2	2		3.15	NoA
13	4	Technetium-99	18.1	2	2	2.8	101	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
13	4	Thorium-228	0.548	2	2	1.6		NoB
13	4	Thorium-230	0.499	2	2	1.4	4.1	NoAB
13	4	Thorium-232	0.499	2	2	1.5		NoB
13	4	Uranium-234	2.47	2	2	1.2	5.47	NoA
13	4	Uranium-235	0.14	2	2	0.06	0.122	Yes
13	4	Uranium-238	4.18	2	2	1.2	0.517	Yes
13	4	Vanadium	25.9	2	2	37	0.0365	NoB
13	4	Zinc	24.2	2	2	60	1380	NoAB
13	5	2-Butanone	0.008	2	1			NoC
13	5	Acetone	0.021	2	1			NoC
13	5	Aluminum	14000	4	4	12000	4410	Yes
13	5	Americium-241	0.00287	3	3		1.5	NoA
13	5	Anthracene	0.015	2	1		747	NoA
13	5	Antimony	0.82	2	1	0.21	0.552	Yes
13	5	Arsenic	4.2	2	1	7.9	0.238	NoB
13	5	Barium	120	4	4	170	140	NoAB
13	5	Beryllium	0.608	4	2	0.69	0.00567	NoB
13	5	Bis(2-ethylhexyl)phthalate	0.23	2	1			NoC
13	5	Cadmium	2.78	4	2	0.21	0.811	Yes
13	5	Calcium	36400	4	4	6100		NoE
13	5	Carbon disulfide	0.007	2	2			NoC
13	5	Cesium-137	0.562	3	3	0.28	0.0267	Yes
13	5	Chromium	164	4	4	43	15.6	Yes
13	5	Cobalt	3.25	2	2	13	1.37	NoB
13	5	Cobalt-60	0.00741	3	3		0.00547	Yes
13	5	Copper	46	4	4	25	184	NoA
13	5	Di-n-butyl phthalate	0.84	2	1			NoC
13	5	Fluoranthene	1	3	2		109	NoA
13	5	Iron	14000	2	2	28000	3220	NoB
13	5	Lead	31	2	1	23	400	NoA
13	5	Magnesium	1600	2	2	2100		NoBE
13	5	Manganese	238	2	2	820	419	NoAB
13	5	Neptunium-237	0.105	3	3		0.0839	Yes
13	5	Nickel	140	4	4	22	10.4	Yes
13	5	PCB, Total	1.251	4	2		0.0648	Yes
13	5	Phenanthrene	0.54	4	2			NoC
13	5	Plutonium-238	0.0295	3	3		3.21	NoA
13	5	Plutonium-239/240	0.106	3	3		3.15	NoA
13	5	Pyrene	0.89	4	2		81.2	NoA
13	5	Technetium-99	5.5	2	2	2.8	101	NoA
13	5	Thorium-228	0.474	3	3	1.6		NoB
13	5	Thorium-230	0.516	3	3	1.4	4.1	NoAB
13	5	Thorium-232	0.392	3	3	1.5		NoB
13	5	Total PAH	0.06647	4	2		0.0197	Yes
13	5	Uranium	130	2	1	4.6	13.8	Yes
13	5	Uranium-234	1.26	3	3	1.2	5.47	NoA
13	5	Uranium-235	0.0572	3	3	0.06	0.122	NoAB
13	5	Uranium-238	3.53	3	3	1.2	0.517	Yes
13	5	Vanadium	27	4	4	37	0.0365	NoB
13	5	Zinc	240	4	4	60	1380	NoA
13	6	Aluminum	11500	7	7	12000	4410	NoB
13	6	Americium-241	0.0441	7	7		1.5	NoA
13	6	Barium	104	7	7	170	140	NoAB
13	6	Beryllium	0.701	4	1	0.69	0.00567	Yes
13	6	Cadmium	6.78	4	2	0.21	0.811	Yes
13	6	Calcium	91400	7	7	6100		NoE

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
13	6	Carbon disulfide	0.007	4	4			NoC
13	6	Cesium-137	0.331	7	7	0.28	0.0267	Yes
13	6	Chromium	20.9	7	7	43	15.6	NoB
13	6	Cobalt	8.75	3	3	13	1.37	NoB
13	6	Cobalt-60	0.0118	7	7		0.00547	Yes
13	6	Copper	43.1	7	7	25	184	NoA
13	6	Di-n-butyl phthalate	6.8	4	3			NoC
13	6	Fluoranthene	1.4	4	2		109	NoA
13	6	Iron	11900	3	3	28000	3220	NoB
13	6	Lead	41	4	2	23	400	NoA
13	6	Magnesium	1240	3	3	2100		NoBE
13	6	Manganese	1120	3	3	820	419	Yes
13	6	Neptunium-237	0.0933	7	7		0.0839	Yes
13	6	Nickel	20.4	7	7	22	10.4	NoB
13	6	PCB, Total	0.48	4	3		0.0648	Yes
13	6	Plutonium-238	0.03	7	7		3.21	NoA
13	6	Plutonium-239/240	0.131	7	7		3.15	NoA
13	6	Pyrene	1.7	4	2		81.2	NoA
13	6	Silver	2.81	4	1	2.7	2.61	Yes
13	6	Technetium-99	9.07	4	4	2.8	101	NoA
13	6	Thorium-228	0.421	7	7	1.6		NoB
13	6	Thorium-230	0.826	7	7	1.4	4.1	NoAB
13	6	Thorium-232	0.511	7	7	1.5		NoB
13	6	Total PAH	1.2466	4	1		0.0197	Yes
13	6	Uranium-234	1.99	7	7	1.2	5.47	NoA
13	6	Uranium-235	0.113	7	7	0.06	0.122	NoA
13	6	Uranium-238	6.42	7	7	1.2	0.517	Yes
13	6	Vanadium	24.9	7	7	37	0.0365	NoB
13	6	Zinc	137	7	7	60	1380	NoA
13	7	Aluminum	7270	1	1	12000	4410	NoB
13	7	Americium-241	0.00232	1	1		1.5	NoA
13	7	Barium	82.3	1	1	170	140	NoAB
13	7	Calcium	1730	1	1	6100		NoBE
13	7	Carbon disulfide	0.007	1	1			NoC
13	7	Cesium-137	0.0132	1	1	0.28	0.0267	NoAB
13	7	Chromium	8.93	1	1	43	15.6	NoAB
13	7	Cobalt-60	-0.0132	1	1		0.00547	NoA
13	7	Copper	8.2	1	1	25	184	NoAB
13	7	Di-n-butyl phthalate	5.8	1	1			NoC
13	7	Neptunium-237	0.0135	1	1		0.0839	NoA
13	7	Nickel	5.28	1	1	22	10.4	NoAB
13	7	PCB, Total	0.55	1	1		0.0648	Yes
13	7	Plutonium-238	-0.0135	1	1		3.21	NoA
13	7	Plutonium-239/240	0.00499	1	1		3.15	NoA
13	7	Technetium-99	2.9	1	1	2.8	101	NoA
13	7	Thorium-228	0.522	1	1	1.6		NoB
13	7	Thorium-230	0.484	1	1	1.4	4.1	NoAB
13	7	Thorium-232	0.449	1	1	1.5		NoB
13	7	Uranium-234	1.42	1	1	1.2	5.47	NoA
13	7	Uranium-235	0.104	1	1	0.06	0.122	NoA
13	7	Uranium-238	4.82	1	1	1.2	0.517	Yes
13	7	Vanadium	15.8	1	1	37	0.0365	NoB
13	7	Zinc	23	1	1	60	1380	NoAB
13	8	2-Butanone	0.028	5	4			NoC
13	8	Acetone	0.064	5	4			NoC
13	8	Aluminum	8840	5	5	12000	4410	NoB
13	8	Americium-241	0.00335	5	5		1.5	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
13	8	Barium	95.5	5	5	170	140	NoAB
13	8	Beryllium	0.66	5	2	0.69	0.00567	NoB
13	8	Calcium	11700	5	5	6100		NoE
13	8	Carbon disulfide	0.0072	5	5			NoC
13	8	Cesium-137	0.0169	5	5	0.28	0.0267	NoAB
13	8	Chromium	13.9	5	5	43	15.6	NoAB
13	8	Cobalt-60	-0.000283	5	5		0.00547	NoA
13	8	Copper	9.84	5	5	25	184	NoAB
13	8	Neptunium-237	0.0112	5	5		0.0839	NoA
13	8	Nickel	7.29	5	5	22	10.4	NoAB
13	8	Plutonium-238	0.0195	5	5		3.21	NoA
13	8	Plutonium-239/240	0.000462	5	5		3.15	NoA
13	8	Technetium-99	0.771	4	4	2.8	101	NoAB
13	8	Thorium-228	0.478	5	5	1.6		NoB
13	8	Thorium-230	0.485	5	5	1.4	4.1	NoAB
13	8	Thorium-232	0.509	5	5	1.5		NoB
13	8	Uranium-234	0.4	5	5	1.2	5.47	NoAB
13	8	Uranium-235	-0.0297	5	5	0.06	0.122	NoAB
13	8	Uranium-238	0.452	5	5	1.2	0.517	NoAB
13	8	Vanadium	28.4	5	5	37	0.0365	NoB
13	8	Zinc	31.3	5	5	60	1380	NoAB
13	9	2-Butanone	0.013	1	1			NoC
13	9	Acetone	0.033	1	1			NoC
13	9	Alpha activity	47	1	1			NoC
13	9	Aluminum	10200	1	1	12000	4410	NoB
13	9	Americium-241	0.025	2	2		1.5	NoA
13	9	Barium	116	1	1	170	140	NoAB
13	9	Beta activity	55.8	1	1			NoC
13	9	Calcium	1500	1	1	6100		NoBE
13	9	Carbon disulfide	0.0069	1	1			NoC
13	9	Cesium-137	0.393	2	2	0.28	0.0267	Yes
13	9	Chromium	12.6	1	1	43	15.6	NoAB
13	9	Cobalt-60	0.00326	1	1		0.00547	NoA
13	9	Copper	8.8	1	1	25	184	NoAB
13	9	Neptunium-237	0.89	2	2		0.0839	Yes
13	9	Nickel	6.69	1	1	22	10.4	NoAB
13	9	Plutonium-238	0.029	2	2		3.21	NoA
13	9	Plutonium-239/240	0.128	2	2		3.15	NoA
13	9	Technetium-99	6.81	2	2	2.8	101	NoA
13	9	Thorium-228	0.524	2	2	1.6		NoB
13	9	Thorium-230	1.03	2	2	1.4	4.1	NoAB
13	9	Thorium-232	0.495	2	2	1.5		NoB
13	9	Uranium	18.2	1	1	4.6	13.8	Yes
13	9	Uranium-234	4.35	2	2	1.2	5.47	NoA
13	9	Uranium-235	0.311	2	2	0.06	0.122	Yes
13	9	Uranium-238	6.08	2	2	1.2	0.517	Yes
13	9	Vanadium	23.4	1	1	37	0.0365	NoB
13	9	Zinc	26.9	1	1	60	1380	NoAB
13	10	2-Butanone	0.042	3	3			NoC
13	10	Acetone	0.098	3	3			NoC
13	10	Aluminum	10000	3	3	12000	4410	NoB
13	10	Americium-241	0.0003	3	3		1.5	NoA
13	10	Barium	101	3	3	170	140	NoAB
13	10	Beryllium	0.518	3	1	0.69	0.00567	NoB
13	10	Calcium	1790	3	3	6100		NoBE
13	10	Carbon disulfide	0.0076	3	3			NoC
13	10	Cesium-137	0.0129	3	3	0.28	0.0267	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
13	10	Chromium	13.3	3	3	43	15.6	NoAB
13	10	Cobalt-60	0.0149	3	3		0.00547	Yes
13	10	Copper	8.99	3	3	25	184	NoAB
13	10	Di-n-butyl phthalate	0.82	3	1			NoC
13	10	Neptunium-237	0.00748	3	3		0.0839	NoA
13	10	Nickel	7.1	3	2	22	10.4	NoAB
13	10	Plutonium-238	0.0048	3	3		3.21	NoA
13	10	Plutonium-239/240	-0.000437	3	3		3.15	NoA
13	10	Technetium-99	1.47	3	3	2.8	101	NoAB
13	10	Thorium-228	0.532	3	3	1.6		NoB
13	10	Thorium-230	0.533	3	3	1.4	4.1	NoAB
13	10	Thorium-232	0.376	3	3	1.5		NoB
13	10	Uranium-234	0.351	3	3	1.2	5.47	NoAB
13	10	Uranium-235	0.00702	3	3	0.06	0.122	NoAB
13	10	Uranium-238	0.388	3	3	1.2	0.517	NoAB
13	10	Vanadium	24.1	3	3	37	0.0365	NoB
13	10	Zinc	27.5	3	2	60	1380	NoAB
13	11	Aluminum	5680	1	1	12000	4410	NoB
13	11	Americium-241	0.0438	1	1		1.5	NoA
13	11	Barium	67.3	1	1	170	140	NoAB
13	11	Calcium	1070	1	1	6100		NoBE
13	11	Cesium-137	-0.00184	1	1	0.28	0.0267	NoAB
13	11	Chromium	8.55	1	1	43	15.6	NoAB
13	11	Cobalt	3.68	1	1	13	1.37	NoB
13	11	Cobalt-60	0.013	1	1		0.00547	Yes
13	11	Copper	18.8	1	1	25	184	NoAB
13	11	Iron	12100	1	1	28000	3220	NoB
13	11	Magnesium	529	1	1	2100		NoBE
13	11	Manganese	750	1	1	820	419	NoB
13	11	Neptunium-237	-0.0109	1	1		0.0839	NoA
13	11	Plutonium-238	0.00435	1	1		3.21	NoA
13	11	Plutonium-239/240	0.00348	1	1		3.15	NoA
13	11	Thorium-228	0.325	1	1	1.6		NoB
13	11	Thorium-230	0.346	1	1	1.4	4.1	NoAB
13	11	Thorium-232	0.373	1	1	1.5		NoB
13	11	Uranium-235	0.016	1	1	0.06	0.122	NoAB
13	11	Vanadium	19.2	1	1	37	0.0365	NoB
13	11	Zinc	52.2	1	1	60	1380	NoAB
13	12	2-Butanone	0.019	2	2			NoC
13	12	Acetone	0.045	2	2			NoC
13	12	Aluminum	5730	3	3	12000	4410	NoB
13	12	Americium-241	0.0288	3	3		1.5	NoA
13	12	Barium	178	3	3	170	140	Yes
13	12	Beryllium	0.796	2	1	0.69	0.00567	Yes
13	12	Cadmium	3.38	2	1	0.21	0.811	Yes
13	12	Calcium	41600	3	3	6100		NoE
13	12	Carbon disulfide	0.007	2	2			NoC
13	12	Cesium-137	0.0194	3	3	0.28	0.0267	NoAB
13	12	Chromium	29.9	3	3	43	15.6	NoB
13	12	Cobalt	3.95	1	1	13	1.37	NoB
13	12	Cobalt-60	0.000474	3	3		0.00547	NoA
13	12	Copper	8.23	3	3	25	184	NoAB
13	12	Di-n-butyl phthalate	1.3	2	1			NoC
13	12	Fluoranthene	0.71	2	1		109	NoA
13	12	Iron	6540	1	1	28000	3220	NoB
13	12	Magnesium	544	1	1	2100		NoBE
13	12	Manganese	214	1	1	820	419	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
13	12	Neptunium-237	0.0123	3	3		0.0839	NoA
13	12	Nickel	19.1	3	3	22	10.4	NoB
13	12	PCB, Total	0.99	2	2		0.0648	Yes
13	12	Plutonium-238	0.0372	3	3		3.21	NoA
13	12	Plutonium-239/240	0.00859	3	3		3.15	NoA
13	12	Pyrene	0.58	2	1		81.2	NoA
13	12	Technetium-99	0.316	2	2	2.8	101	NoAB
13	12	Thorium-228	0.479	3	3	1.6		NoB
13	12	Thorium-230	0.518	3	3	1.4	4.1	NoAB
13	12	Thorium-232	0.424	3	3	1.5		NoB
13	12	Uranium-234	0.695	3	3	1.2	5.47	NoAB
13	12	Uranium-235	0.0381	3	3	0.06	0.122	NoAB
13	12	Uranium-238	1.07	3	3	1.2	0.517	NoB
13	12	Vanadium	28.1	3	3	37	0.0365	NoB
13	12	Zinc	54.7	3	3	60	1380	NoAB
13	13	2-Butanone	0.018	1	1			NoC
13	13	Acetone	0.059	1	1			NoC
13	13	Aluminum	4820	1	1	12000	4410	NoB
13	13	Americium-241	-0.00268	1	1		1.5	NoA
13	13	Barium	78.7	1	1	170	140	NoAB
13	13	Calcium	3860	1	1	6100		NoBE
13	13	Carbon disulfide	0.007	1	1			NoC
13	13	Cesium-137	-0.00621	1	1	0.28	0.0267	NoAB
13	13	Chromium	7.15	1	1	43	15.6	NoAB
13	13	Cobalt-60	0.0204	1	1		0.00547	Yes
13	13	Copper	7.06	1	1	25	184	NoAB
13	13	Neptunium-237	-0.00371	1	1		0.0839	NoA
13	13	Plutonium-238	0.000949	1	1		3.21	NoA
13	13	Plutonium-239/240	0.00234	1	1		3.15	NoA
13	13	Technetium-99	0.241	1	1	2.8	101	NoAB
13	13	Thorium-228	0.695	1	1	1.6		NoB
13	13	Thorium-230	0.766	1	1	1.4	4.1	NoAB
13	13	Thorium-232	0.732	1	1	1.5		NoB
13	13	Uranium-234	0.574	1	1	1.2	5.47	NoAB
13	13	Uranium-235	0.00984	1	1	0.06	0.122	NoAB
13	13	Uranium-238	0.624	1	1	1.2	0.517	NoB
13	13	Vanadium	15.2	1	1	37	0.0365	NoB
13	14	2-Butanone	0.016	2	2			NoC
13	14	Acetone	0.046	2	2			NoC
13	14	Aluminum	4350	2	2	12000	4410	NoAB
13	14	Americium-241	0.00515	2	2		1.5	NoA
13	14	Barium	100	2	2	170	140	NoAB
13	14	Beryllium	0.462	2	1	0.69	0.00567	NoB
13	14	Calcium	78100	2	2	6100		NoE
13	14	Carbon disulfide	0.007	2	2			NoC
13	14	Cesium-137	-0.00209	2	2	0.28	0.0267	NoAB
13	14	Chromium	6.69	2	2	43	15.6	NoAB
13	14	Cobalt-60	0.0029	2	2		0.00547	NoA
13	14	Copper	6.99	2	2	25	184	NoAB
13	14	Neptunium-237	0.0309	2	2		0.0839	NoA
13	14	Nickel	5.45	2	1	22	10.4	NoAB
13	14	Plutonium-238	0.0285	2	2		3.21	NoA
13	14	Plutonium-239/240	0.0176	2	2		3.15	NoA
13	14	Technetium-99	1.62	2	2	2.8	101	NoAB
13	14	Thorium-228	0.812	2	2	1.6		NoB
13	14	Thorium-230	0.806	2	2	1.4	4.1	NoAB
13	14	Thorium-232	0.831	2	2	1.5		NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
13	14	Uranium-234	3.48	2	2	1.2	5.47	NoA
13	14	Uranium-235	0.203	2	2	0.06	0.122	Yes
13	14	Uranium-238	5.55	2	2	1.2	0.517	Yes
13	14	Vanadium	15.3	2	2	37	0.0365	NoB
14	1	Alpha activity	45.2	2	2			NoC
14	1	Aluminum	10800	5	5	12000	4410	NoB
14	1	Americium-241	1.65	5	5		1.5	Yes
14	1	Antimony	0.63	4	2	0.21	0.552	Yes
14	1	Arsenic	15.2	30	15	7.9	0.238	Yes
14	1	Barium	150	5	5	170	140	NoB
14	1	Beryllium	1.1	5	3	0.69	0.00567	Yes
14	1	Beta activity	65.5	2	2			NoC
14	1	Cadmium	0.065	5	3	0.21	0.811	NoAB
14	1	Calcium	4980	5	5	6100		NoBE
14	1	Cesium-137	0.097	5	5	0.28	0.0267	NoB
14	1	Chromium	72.7	30	17	43	15.6	Yes
14	1	Cobalt	10.9	5	4	13	1.37	NoB
14	1	Cobalt-60	0.0242	2	2		0.00547	Yes
14	1	Copper	176.69	30	15	25	184	NoA
14	1	Iron	80721.84	30	30	28000	3220	Yes
14	1	Lead	62.4	30	27	23	400	NoA
14	1	Magnesium	1590	5	5	2100		NoBE
14	1	Manganese	1229.39	30	29	820	419	Yes
14	1	Mercury	0.0224	30	3	0.13	0.213	NoAB
14	1	Molybdenum	7.99	30	5		23	NoA
14	1	Neptunium-237	0.273	5	5		0.0839	Yes
14	1	Nickel	1293.64	30	22	22	10.4	Yes
14	1	PCB, Total	0.5	13	1		0.0648	Yes
14	1	Plutonium-238	0.0078	4	4		3.21	NoA
14	1	Plutonium-239/240	0.283	5	5		3.15	NoA
14	1	Selenium	1.3	30	3	0.7	23	NoA
14	1	Silver	16.69	30	6	2.7	2.61	Yes
14	1	Sodium	153	5	5	340		NoBE
14	1	Technetium-99	406	5	5	2.8	101	Yes
14	1	Thallium	0.13	5	3	0.34	0.368	NoAB
14	1	Thorium-228	0.655	4	4	1.6		NoB
14	1	Thorium-230	3.17	5	5	1.4	4.1	NoA
14	1	Thorium-232	0.652	4	4	1.5		NoB
14	1	Total PAH	0.015	3	1		0.0197	NoA
14	1	Uranium	352.31	30	20	4.6	13.8	Yes
14	1	Uranium-234	4.73	4	4	1.2	5.47	NoA
14	1	Uranium-235	0.287	7	7	0.06	0.122	Yes
14	1	Uranium-238	9.14	4	4	1.2	0.517	Yes
14	1	Vanadium	50.2	5	4	37	0.0365	Yes
14	1	Zinc	332.77	30	29	60	1380	NoA
14	2	Acenaphthene	0.039	1	1		117	NoA
14	2	Alpha activity	206	2	2			NoC
14	2	Aluminum	13100	2	2	12000	4410	Yes
14	2	Americium-241	0.249	2	2		1.5	NoA
14	2	Anthracene	0.078	1	1		747	NoA
14	2	Antimony	3.7	2	2	0.21	0.552	Yes
14	2	Arsenic	25.82	28	18	7.9	0.238	Yes
14	2	Barium	127	2	2	170	140	NoAB
14	2	Benzo(ghi)perylene	0.12	1	1			NoC
14	2	Beryllium	0.71	2	2	0.69	0.00567	Yes
14	2	Beta activity	329	2	2			NoC

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
14	2	Bis(2-ethylhexyl)phthalate	0.24	2	2			NoC
14	2	Cadmium	2.4	2	2	0.21	0.811	Yes
14	2	Calcium	59000	2	2	6100		NoE
14	2	Cesium-137	0.207	2	2	0.28	0.0267	NoB
14	2	Chromium	98.88	28	18	43	15.6	Yes
14	2	Cobalt	12.7	2	2	13	1.37	NoB
14	2	Copper	258.32	28	17	25	184	Yes
14	2	Di-n-butyl phthalate	0.054	1	1			NoC
14	2	Fluoranthene	0.46	2	2		109	NoA
14	2	Iron	61312.21	28	28	28000	3220	Yes
14	2	Lead	148.86	28	26	23	400	NoA
14	2	Magnesium	4730	2	2	2100		NoE
14	2	Manganese	2667.77	28	28	820	419	Yes
14	2	Mercury	8.88	28	3	0.13	0.213	Yes
14	2	Molybdenum	3	28	2		23	NoA
14	2	Neptunium-237	2.29	2	2		0.0839	Yes
14	2	Nickel	1380.97	28	18	22	10.4	Yes
14	2	PCB, Total	5	28	3		0.0648	Yes
14	2	Phenanthrene	0.31	2	2			NoC
14	2	Plutonium-238	0.044	2	2		3.21	NoA
14	2	Plutonium-239/240	0.87	2	2		3.15	NoA
14	2	Pyrene	0.43	2	2		81.2	NoA
14	2	Selenium	30.65	28	3	0.7	23	Yes
14	2	Silver	9.58	28	3	2.7	2.61	Yes
14	2	Sodium	96.2	2	2	340		NoBE
14	2	Technetium-99	93.5	2	2	2.8	101	NoA
14	2	Thallium	0.22	2	2	0.34	0.368	NoAB
14	2	Thorium-228	0.86	2	2	1.6		NoB
14	2	Thorium-230	8.8	2	2	1.4	4.1	Yes
14	2	Thorium-232	0.84	2	2	1.5		NoB
14	2	Total PAH	0.33814	2	2		0.0197	Yes
14	2	Uranium	524.16	28	23	4.6	13.8	Yes
14	2	Uranium-234	58.1	2	2	1.2	5.47	Yes
14	2	Uranium-235	4.31	2	2	0.06	0.122	Yes
14	2	Uranium-238	111	2	2	1.2	0.517	Yes
14	2	Vanadium	33.3	2	2	37	0.0365	NoB
14	2	Zinc	737.29	28	28	60	1380	NoA
14	3	Alpha activity	59	2	2			NoC
14	3	Aluminum	7390	2	2	12000	4410	NoB
14	3	Americium-241	0.015	2	2		1.5	NoA
14	3	Antimony	0.31	2	2	0.21	0.552	NoA
14	3	Arsenic	44.8	28	15	7.9	0.238	Yes
14	3	Barium	59.9	2	2	170	140	NoAB
14	3	Beryllium	3	2	2	0.69	0.00567	Yes
14	3	Beta activity	68.1	2	2			NoC
14	3	Cadmium	0.18	2	2	0.21	0.811	NoAB
14	3	Calcium	21400	2	2	6100		NoE
14	3	Cesium-137	0.025	2	2	0.28	0.0267	NoAB
14	3	Chromium	70.13	28	12	43	15.6	Yes
14	3	Cobalt	19.3	2	2	13	1.37	Yes
14	3	Copper	195.57	28	15	25	184	Yes
14	3	Iron	92700	28	28	28000	3220	Yes
14	3	Lead	141.5	28	26	23	400	NoA
14	3	Magnesium	1120	2	2	2100		NoBE
14	3	Manganese	1854.15	28	28	820	419	Yes
14	3	Mercury	7.48	28	2	0.13	0.213	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
14	3	Molybdenum	28.67	28	3		23	Yes
14	3	Neptunium-237	0.205	2	2		0.0839	Yes
14	3	Nickel	1198.49	28	18	22	10.4	Yes
14	3	PCB, Total	10	12	3		0.0648	Yes
14	3	Plutonium-238	0.018	2	2		3.21	NoA
14	3	Plutonium-239/240	0.047	2	2		3.15	NoA
14	3	Selenium	3.54	28	2	0.7	23	NoA
14	3	Silver	13.41	28	3	2.7	2.61	Yes
14	3	Sodium	73.8	2	2	340		NoBE
14	3	Technetium-99	9.03	2	2	2.8	101	NoA
14	3	Thallium	0.13	2	2	0.34	0.368	NoAB
14	3	Thorium-228	0.88	2	2	1.6		NoB
14	3	Thorium-230	1.36	2	2	1.4	4.1	NoAB
14	3	Thorium-232	0.89	2	2	1.5		NoB
14	3	Uranium	349.16	28	20	4.6	13.8	Yes
14	3	Uranium-234	6.61	2	2	1.2	5.47	Yes
14	3	Uranium-235	0.37	2	2	0.06	0.122	Yes
14	3	Uranium-238	13.6	2	2	1.2	0.517	Yes
14	3	Vanadium	86.2	2	2	37	0.0365	Yes
14	3	Zinc	641.9	28	28	60	1380	NoA
14	4	Alpha activity	323	2	2			NoC
14	4	Aluminum	12100	2	2	12000	4410	Yes
14	4	Americium-241	0.128	2	2		1.5	NoA
14	4	Antimony	4.3	2	2	0.21	0.552	Yes
14	4	Arsenic	20.75	30	11	7.9	0.238	Yes
14	4	Barium	169	2	2	170	140	NoB
14	4	Benzo(ghi)perylene	0.084	1	1			NoC
14	4	Benzoic acid	0.64	1	1			NoC
14	4	Beryllium	0.64	2	2	0.69	0.00567	NoB
14	4	Beta activity	469	2	2			NoC
14	4	Bis(2-ethylhexyl)phthalate	0.35	1	1			NoC
14	4	Cadmium	0.45	2	2	0.21	0.811	NoA
14	4	Calcium	3420	2	2	6100		NoBE
14	4	Cesium-137	0.076	2	2	0.28	0.0267	NoB
14	4	Chromium	77.28	30	15	43	15.6	Yes
14	4	Cobalt	15.1	2	2	13	1.37	Yes
14	4	Copper	1098.8	30	20	25	184	Yes
14	4	Di-n-butyl phthalate	0.043	1	1			NoC
14	4	Fluoranthene	0.18	1	1		109	NoA
14	4	Iron	62967.76	30	30	28000	3220	Yes
14	4	Lead	115.82	30	30	23	400	NoA
14	4	Magnesium	1950	2	2	2100		NoBE
14	4	Manganese	1231.77	30	30	820	419	Yes
14	4	Mercury	8	30	3	0.13	0.213	Yes
14	4	Molybdenum	14.87	30	4		23	NoA
14	4	Neptunium-237	2.68	2	2		0.0839	Yes
14	4	Nickel	1590.5	30	21	22	10.4	Yes
14	4	PCB, Total	10	15	5		0.0648	Yes
14	4	Phenanthrene	0.053	1	1			NoC
14	4	Plutonium-238	0.059	2	2		3.21	NoA
14	4	Plutonium-239/240	0.69	2	2		3.15	NoA
14	4	Pyrene	0.18	1	1		81.2	NoA
14	4	Selenium	1.7	30	2	0.7	23	NoA
14	4	Silver	11.7	30	4	2.7	2.61	Yes
14	4	Sodium	130	2	2	340		NoBE
14	4	Technetium-99	23.9	2	2	2.8	101	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
14	4	Thallium	0.14	2	2	0.34	0.368	NoAB
14	4	Thorium-228	1.03	2	2	1.6		NoB
14	4	Thorium-230	8.33	2	2	1.4	4.1	Yes
14	4	Thorium-232	0.96	2	2	1.5		NoB
14	4	Total PAH	0.25077	2	2		0.0197	Yes
14	4	Uranium	663.16	30	24	4.6	13.8	Yes
14	4	Uranium-234	113	2	2	1.2	5.47	Yes
14	4	Uranium-235	8	2	2	0.06	0.122	Yes
14	4	Uranium-238	169	2	2	1.2	0.517	Yes
14	4	Vanadium	34.6	2	2	37	0.0365	NoB
14	4	Zinc	722.91	30	30	60	1380	NoA
14	5	2-Methylnaphthalene	0.18	1	1			NoC
14	5	Alpha activity	224	2	2			NoC
14	5	Aluminum	10800	3	3	12000	4410	NoB
14	5	Americium-241	0.195	2	2		1.5	NoA
14	5	Antimony	2.3	3	3	0.21	0.552	Yes
14	5	Arsenic	17.3	27	15	7.9	0.238	Yes
14	5	Barium	168	3	3	170	140	NoB
14	5	Benzo(ghi)perylene	0.048	1	1			NoC
14	5	Beryllium	1.1	3	3	0.69	0.00567	Yes
14	5	Beta activity	393	2	2			NoC
14	5	Bis(2-ethylhexyl)phthalate	0.17	1	1			NoC
14	5	Cadmium	3.9	3	3	0.21	0.811	Yes
14	5	Calcium	37100	3	3	6100		NoE
14	5	Cesium-137	0.172	2	2	0.28	0.0267	NoB
14	5	Chromium	46.97	27	10	43	15.6	Yes
14	5	Cobalt	14	3	3	13	1.37	Yes
14	5	Copper	218.15	27	13	25	184	Yes
14	5	Fluoranthene	0.099	1	1		109	NoA
14	5	Iron	66572.84	27	27	28000	3220	Yes
14	5	Lead	146	27	26	23	400	NoA
14	5	Magnesium	2250	3	3	2100		NoE
14	5	Manganese	1758.31	27	26	820	419	Yes
14	5	Mercury	10.94	27	5	0.13	0.213	Yes
14	5	Molybdenum	4.3	27	3		23	NoA
14	5	Neptunium-237	1.74	2	2		0.0839	Yes
14	5	Nickel	697.12	27	17	22	10.4	Yes
14	5	PCB, Total	10	27	2		0.0648	Yes
14	5	Plutonium-238	0.04	2	2		3.21	NoA
14	5	Plutonium-239/240	1.12	2	2		3.15	NoA
14	5	Pyrene	0.1	1	1		81.2	NoA
14	5	Selenium	1.6	27	3	0.7	23	NoA
14	5	Silver	12.87	27	7	2.7	2.61	Yes
14	5	Sodium	99.6	3	3	340		NoBE
14	5	Technetium-99	101	2	2	2.8	101	Yes
14	5	Thallium	0.42	3	3	0.34	0.368	Yes
14	5	Thorium-228	0.91	2	2	1.6		NoB
14	5	Thorium-230	13.9	2	2	1.4	4.1	Yes
14	5	Thorium-232	0.97	2	2	1.5		NoB
14	5	Total PAH	0.120962	1	1		0.0197	Yes
14	5	Uranium	445	27	18	4.6	13.8	Yes
14	5	Uranium-234	52.2	2	2	1.2	5.47	Yes
14	5	Uranium-235	3.33	2	2	0.06	0.122	Yes
14	5	Uranium-238	94.2	2	2	1.2	0.517	Yes
14	5	Vanadium	46.5	3	3	37	0.0365	Yes
14	5	Zinc	364	27	26	60	1380	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
14	6	Alpha activity	138	2	2			NoC
14	6	Aluminum	6670	2	2	12000	4410	NoB
14	6	Americium-241	0.022	2	2		1.5	NoA
14	6	Antimony	2.7	2	2	0.21	0.552	Yes
14	6	Arsenic	11.31	30	10	7.9	0.238	Yes
14	6	Barium	99	2	2	170	140	NoAB
14	6	Beryllium	0.67	2	2	0.69	0.00567	NoB
14	6	Beta activity	250	2	2			NoC
14	6	Cadmium	0.84	2	2	0.21	0.811	Yes
14	6	Calcium	89300	2	2	6100		NoE
14	6	Cesium-137	0.017	2	2	0.28	0.0267	NoAB
14	6	Chromium	897.61	30	10	43	15.6	Yes
14	6	Cobalt	5.9	2	2	13	1.37	NoB
14	6	Copper	207.36	30	15	25	184	Yes
14	6	Iron	24663.22	30	30	28000	3220	NoB
14	6	Lead	39.53	30	29	23	400	NoA
14	6	Magnesium	6190	2	2	2100		NoE
14	6	Manganese	933.29	30	29	820	419	Yes
14	6	Mercury	0.347	30	2	0.13	0.213	Yes
14	6	Molybdenum	16.41	30	5		23	NoA
14	6	Neptunium-237	2.65	2	2		0.0839	Yes
14	6	Nickel	1622.96	30	21	22	10.4	Yes
14	6	PCB, Total	5	12	2		0.0648	Yes
14	6	Plutonium-238	0.031	2	2		3.21	NoA
14	6	Plutonium-239/240	0.117	2	2		3.15	NoA
14	6	Selenium	1.5	30	2	0.7	23	NoA
14	6	Silver	16.63	30	5	2.7	2.61	Yes
14	6	Sodium	94.6	2	2	340		NoBE
14	6	Technetium-99	76	2	2	2.8	101	NoA
14	6	Thallium	0.32	2	2	0.34	0.368	NoAB
14	6	Thorium-228	0.95	2	2	1.6		NoB
14	6	Thorium-230	1.67	2	2	1.4	4.1	NoA
14	6	Thorium-232	1.08	2	2	1.5		NoB
14	6	Total PAH	0.015	1	1		0.0197	NoA
14	6	Uranium	864.68	30	24	4.6	13.8	Yes
14	6	Uranium-234	34.1	2	2	1.2	5.47	Yes
14	6	Uranium-235	2.27	2	2	0.06	0.122	Yes
14	6	Uranium-238	50.8	2	2	1.2	0.517	Yes
14	6	Vanadium	28.5	2	2	37	0.0365	NoB
14	6	Zinc	240.58	30	29	60	1380	NoA
14	7	Alpha activity	68	2	2			NoC
14	7	Aluminum	8470	2	2	12000	4410	NoB
14	7	Americium-241	0.022	2	2		1.5	NoA
14	7	Anthracene	0.081	1	1		747	NoA
14	7	Antimony	0.75	2	2	0.21	0.552	Yes
14	7	Arsenic	12.99	26	9	7.9	0.238	Yes
14	7	Barium	117	2	2	170	140	NoAB
14	7	Beryllium	0.51	2	2	0.69	0.00567	NoB
14	7	Beta activity	130	2	2			NoC
14	7	Cadmium	2.7	2	2	0.21	0.811	Yes
14	7	Calcium	182000	2	2	6100		NoE
14	7	Cesium-137	0.103	2	2	0.28	0.0267	NoB
14	7	Chromium	64.56	26	9	43	15.6	Yes
14	7	Cobalt	9.5	2	2	13	1.37	NoB
14	7	Copper	176.65	26	10	25	184	NoA
14	7	Fluoranthene	0.072	1	1		109	NoA
14	7	Iron	25208.37	26	26	28000	3220	NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
14	7	Lead	944	26	26	23	400	Yes
14	7	Magnesium	18200	2	2	2100		NoE
14	7	Manganese	909.25	26	26	820	419	Yes
14	7	Mercury	7.82	26	3	0.13	0.213	Yes
14	7	Molybdenum	1.5	26	2		23	NoA
14	7	Neptunium-237	1.49	2	2		0.0839	Yes
14	7	Nickel	2668.41	26	15	22	10.4	Yes
14	7	PCB, Total	10	26	3		0.0648	Yes
14	7	Plutonium-238	0.013	2	2		3.21	NoA
14	7	Plutonium-239/240	0.037	2	2		3.15	NoA
14	7	Pyrene	0.073	1	1		81.2	NoA
14	7	Selenium	1.7	26	2	0.7	23	NoA
14	7	Silver	22.2	26	3	2.7	2.61	Yes
14	7	Sodium	176	2	2	340		NoBE
14	7	Technetium-99	25.1	2	2	2.8	101	NoA
14	7	Thallium	0.28	2	2	0.34	0.368	NoAB
14	7	Thorium-228	0.89	2	2	1.6		NoB
14	7	Thorium-230	1.09	2	2	1.4	4.1	NoAB
14	7	Thorium-232	0.98	2	2	1.5		NoB
14	7	Total PAH	0.06314	2	2		0.0197	Yes
14	7	Uranium	762.94	26	22	4.6	13.8	Yes
14	7	Uranium-234	12.8	2	2	1.2	5.47	Yes
14	7	Uranium-235	0.96	2	2	0.06	0.122	Yes
14	7	Uranium-238	21.3	2	2	1.2	0.517	Yes
14	7	Vanadium	29.8	2	2	37	0.0365	NoB
14	7	Zinc	337.01	26	26	60	1380	NoA
14	8	Alpha activity	33.9	2	2			NoC
14	8	Aluminum	8570	2	2	12000	4410	NoB
14	8	Americium-241	0.012	2	2		1.5	NoA
14	8	Antimony	0.61	2	2	0.21	0.552	Yes
14	8	Arsenic	16.62	31	18	7.9	0.238	Yes
14	8	Barium	121	2	2	170	140	NoAB
14	8	Beryllium	0.48	2	2	0.69	0.00567	NoB
14	8	Beta activity	69.8	2	2			NoC
14	8	Bis(2-ethylhexyl)phthalate	0.3	2	2			NoC
14	8	Cadmium	0.33	2	2	0.21	0.811	NoA
14	8	Calcium	162000	2	2	6100		NoE
14	8	Cesium-137	0.207	2	2	0.28	0.0267	NoB
14	8	Chromium	51.41	31	13	43	15.6	Yes
14	8	Cobalt	6.9	2	2	13	1.37	NoB
14	8	Copper	276.79	31	15	25	184	Yes
14	8	Fluoranthene	0.068	1	1		109	NoA
14	8	Iron	23685.78	31	31	28000	3220	NoB
14	8	Lead	73.78	31	31	23	400	NoA
14	8	Magnesium	6640	2	2	2100		NoE
14	8	Manganese	815.36	31	31	820	419	NoB
14	8	Mercury	8.7	31	5	0.13	0.213	Yes
14	8	Molybdenum	0.78	31	2		23	NoA
14	8	Neptunium-237	0.88	2	2		0.0839	Yes
14	8	Nickel	1299.73	31	21	22	10.4	Yes
14	8	PCB, Total	5	13	2		0.0648	Yes
14	8	Plutonium-238	0.018	2	2		3.21	NoA
14	8	Plutonium-239/240	0.088	2	2		3.15	NoA
14	8	Pyrene	0.069	1	1		81.2	NoA
14	8	Selenium	1.4	31	2	0.7	23	NoA
14	8	Silver	11.8	31	4	2.7	2.61	Yes

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SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
14	8	Sodium	93.4	2	2	340		NoBE
14	8	Technetium-99	30.9	2	2	2.8	101	NoA
14	8	Thallium	0.22	2	2	0.34	0.368	NoAB
14	8	Thorium-228	1.14	2	2	1.6		NoB
14	8	Thorium-230	1.12	2	2	1.4	4.1	NoAB
14	8	Thorium-232	1.25	2	2	1.5		NoB
14	8	Total PAH	0.062758	1	1		0.0197	Yes
14	8	Uranium	638.11	31	23	4.6	13.8	Yes
14	8	Uranium-234	3.81	2	2	1.2	5.47	NoA
14	8	Uranium-235	0.238	2	2	0.06	0.122	Yes
14	8	Uranium-238	5.92	2	2	1.2	0.517	Yes
14	8	Vanadium	25.2	2	2	37	0.0365	NoB
14	8	Zinc	163.71	31	31	60	1380	NoA
14	9	Acenaphthylene	0.042	1	1			NoC
14	9	Alpha activity	4640	3	3			NoC
14	9	Aluminum	7050	2	2	12000	4410	NoB
14	9	Americium-241	0.079	3	3		1.5	NoA
14	9	Anthracene	0.04	1	1		747	NoA
14	9	Antimony	2	2	2	0.21	0.552	Yes
14	9	Arsenic	23.57	26	11	7.9	0.238	Yes
14	9	Barium	134	2	2	170	140	NoAB
14	9	Benzenemethanol	0.047	1	1			NoC
14	9	Benzo(ghi)perylene	0.23	1	1			NoC
14	9	Beryllium	0.41	2	2	0.69	0.00567	NoB
14	9	Beta activity	4200	3	3			NoC
14	9	Cadmium	0.94	2	2	0.21	0.811	Yes
14	9	Calcium	91500	2	2	6100		NoE
14	9	Cesium-137	0.62	3	3	0.28	0.0267	Yes
14	9	Chromium	46.44	26	10	43	15.6	Yes
14	9	Cobalt	6.8	2	2	13	1.37	NoB
14	9	Copper	180.26	26	11	25	184	NoA
14	9	Fluoranthene	0.45	2	2		109	NoA
14	9	Iron	27773.15	26	26	28000	3220	NoB
14	9	Lead	70.88	26	26	23	400	NoA
14	9	Magnesium	4100	2	2	2100		NoE
14	9	Manganese	800	26	26	820	419	NoB
14	9	Mercury	1.13	26	2	0.13	0.213	Yes
14	9	Molybdenum	10.04	26	3		23	NoA
14	9	Neptunium-237	16	3	3		0.0839	Yes
14	9	Nickel	1724.92	26	17	22	10.4	Yes
14	9	PCB, Total	10	26	5		0.0648	Yes
14	9	Phenanthrene	0.12	1	1			NoC
14	9	Plutonium-238	0.022	3	3		3.21	NoA
14	9	Plutonium-239/240	0.393	3	3		3.15	NoA
14	9	Pyrene	0.48	2	2		81.2	NoA
14	9	Selenium	4.75	26	4	0.7	23	NoA
14	9	Silver	0.39	26	2	2.7	2.61	NoAB
14	9	Sodium	85.6	2	2	340		NoBE
14	9	Technetium-99	215	3	3	2.8	101	Yes
14	9	Thallium	0.29	2	2	0.34	0.368	NoAB
14	9	Thorium-228	0.87	3	3	1.6		NoB
14	9	Thorium-230	3.45	3	3	1.4	4.1	NoA
14	9	Thorium-232	0.86	3	3	1.5		NoB
14	9	Total PAH	0.48746	2	2		0.0197	Yes
14	9	Uranium	4600	27	25	4.6	13.8	Yes
14	9	Uranium-234	1070	3	3	1.2	5.47	Yes
14	9	Uranium-235	70	3	3	0.06	0.122	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
14	9	Uranium-238	1540	3	3	1.2	0.517	Yes
14	9	Vanadium	21.8	2	2	37	0.0365	NoB
14	9	Zinc	195.15	26	26	60	1380	NoA
14	10	Alpha activity	130	2	2			NoC
14	10	Aluminum	6430	3	3	12000	4410	NoB
14	10	Americium-241	0.064	2	2		1.5	NoA
14	10	Antimony	1.1	3	3	0.21	0.552	Yes
14	10	Arsenic	14.57	28	18	7.9	0.238	Yes
14	10	Barium	172	3	3	170	140	Yes
14	10	Benzo(ghi)perylene	0.11	1	1			NoC
14	10	Beryllium	0.58	3	3	0.69	0.00567	NoB
14	10	Beta activity	197	2	2			NoC
14	10	Cadmium	0.57	3	3	0.21	0.811	NoA
14	10	Calcium	76000	3	3	6100		NoE
14	10	Cesium-137	0.055	2	2	0.28	0.0267	NoB
14	10	Chromium	44.72	28	12	43	15.6	Yes
14	10	Cobalt	7.3	3	3	13	1.37	NoB
14	10	Copper	275.71	28	13	25	184	Yes
14	10	Fluoranthene	0.21	1	1		109	NoA
14	10	Iron	39014.89	28	28	28000	3220	Yes
14	10	Lead	49.39	28	28	23	400	NoA
14	10	Magnesium	4100	3	3	2100		NoE
14	10	Manganese	1062.78	28	28	820	419	Yes
14	10	Mercury	43.71	28	6	0.13	0.213	Yes
14	10	Molybdenum	0.89	28	3		23	NoA
14	10	Neptunium-237	2.64	2	2		0.0839	Yes
14	10	Nickel	950.81	28	15	22	10.4	Yes
14	10	PCB, Total	10	28	8		0.0648	Yes
14	10	Phenanthrene	0.045	1	1			NoC
14	10	Plutonium-238	0.032	2	2		3.21	NoA
14	10	Plutonium-239/240	0.24	2	2		3.15	NoA
14	10	Pyrene	0.24	1	1		81.2	NoA
14	10	Selenium	1.4	28	3	0.7	23	NoA
14	10	Silver	10.71	28	4	2.7	2.61	Yes
14	10	Sodium	81.5	3	3	340		NoBE
14	10	Technetium-99	56.3	2	2	2.8	101	NoA
14	10	Thallium	0.14	3	3	0.34	0.368	NoAB
14	10	Thorium-228	0.93	2	2	1.6		NoB
14	10	Thorium-230	1.16	2	2	1.4	4.1	NoAB
14	10	Thorium-232	0.94	2	2	1.5		NoB
14	10	Total PAH	0.27151	1	1		0.0197	Yes
14	10	Uranium	541.96	28	21	4.6	13.8	Yes
14	10	Uranium-234	24.2	2	2	1.2	5.47	Yes
14	10	Uranium-235	1.76	2	2	0.06	0.122	Yes
14	10	Uranium-238	40.9	2	2	1.2	0.517	Yes
14	10	Vanadium	22.8	3	3	37	0.0365	NoB
14	10	Zinc	278.18	28	28	60	1380	NoA
15	1	Acenaphthene	0.16	1	1		117	NoA
15	1	Acetone	0.0087	2	2			NoC
15	1	Alpha activity	31	2	2			NoC
15	1	Aluminum	8300	5	5	12000	4410	NoB
15	1	Americium-241	0.0219	4	4		1.5	NoA
15	1	Anthracene	0.28	1	1		747	NoA
15	1	Antimony	0.64	5	3	0.21	0.552	Yes
15	1	Arsenic	20.04	32	21	7.9	0.238	Yes
15	1	Barium	110	5	5	170	140	NoAB
15	1	Benzo(ghi)perylene	0.44	1	1			NoC

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
15	1	Beryllium	0.66	5	4	0.69	0.00567	NoB
15	1	Beta activity	30	2	2			NoC
15	1	Bis(2-ethylhexyl)phthalate	0.38	4	2			NoC
15	1	Cadmium	0.25	5	3	0.21	0.811	NoA
15	1	Calcium	28100	5	5	6100		NoE
15	1	Carbon disulfide	0.0068	2	2			NoC
15	1	Cesium-137	0.093	4	4	0.28	0.0267	NoB
15	1	Chromium	56.1	32	13	43	15.6	Yes
15	1	Cobalt	8	3	3	13	1.37	NoB
15	1	Cobalt-60	-0.00254	2	2		0.00547	NoA
15	1	Copper	303.4	32	21	25	184	Yes
15	1	Dibenzofuran	0.056	1	1			NoC
15	1	Di-n-butyl phthalate	0.76	3	1			NoC
15	1	Fluoranthene	2.1	1	1		109	NoA
15	1	Fluorene	0.13	1	1		91.5	NoA
15	1	Iron	37400	30	30	28000	3220	Yes
15	1	Lead	55.35	32	29	23	400	NoA
15	1	Magnesium	6730	3	3	2100		NoE
15	1	Manganese	832.66	30	30	820	419	Yes
15	1	Mercury	0.0328	32	3	0.13	0.213	NoAB
15	1	Molybdenum	4.2	30	3		23	NoA
15	1	Neptunium-237	0.018	4	4		0.0839	NoA
15	1	Nickel	260.5	32	15	22	10.4	Yes
15	1	PCB, Total	0.078	12	1		0.0648	Yes
15	1	Phenanthrene	1.3	1	1			NoC
15	1	Plutonium-238	0.106	4	4		3.21	NoA
15	1	Plutonium-239/240	0.027	4	4		3.15	NoA
15	1	Pyrene	1.4	1	1		81.2	NoA
15	1	Selenium	2.1	32	3	0.7	23	NoA
15	1	Silver	12.29	32	7	2.7	2.61	Yes
15	1	Sodium	166	3	3	340		NoBE
15	1	Technetium-99	183	4	4	2.8	101	Yes
15	1	Thallium	0.61	5	3	0.34	0.368	Yes
15	1	Thorium-228	0.89	4	4	1.6		NoB
15	1	Thorium-230	0.93	4	4	1.4	4.1	NoAB
15	1	Thorium-232	0.95	4	4	1.5		NoB
15	1	Total PAH	1.71437	1	1		0.0197	Yes
15	1	Uranium	45.33	30	13	4.6	13.8	Yes
15	1	Uranium-234	1.52	4	4	1.2	5.47	NoA
15	1	Uranium-235	0.08	7	7	0.06	0.122	NoA
15	1	Uranium-238	1.85	4	4	1.2	0.517	Yes
15	1	Vanadium	29.6	5	5	37	0.0365	NoB
15	1	Zinc	197.59	32	32	60	1380	NoA
15	2	2-Butanone	0.036	5	3			NoC
15	2	2-Methylnaphthalene	0.052	1	1			NoC
15	2	Acenaphthene	0.46	1	1		117	NoA
15	2	Acetone	0.014	5	3			NoC
15	2	Alpha activity	58	3	3			NoC
15	2	Aluminum	16800	7	7	12000	4410	Yes
15	2	Americium-241	0.0404	8	8		1.5	NoA
15	2	Anthracene	0.77	1	1		747	NoA
15	2	Antimony	0.66	7	2	0.21	0.552	Yes
15	2	Arsenic	16.26	24	11	7.9	0.238	Yes
15	2	Barium	133	7	7	170	140	NoAB
15	2	Benzo(ghi)perylene	0.89	1	1			NoC
15	2	Beryllium	0.55	7	4	0.69	0.00567	NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
15	2	Beta activity	49.4	3	3			NoC
15	2	Bis(2-ethylhexyl)phthalate	0.057	7	2			NoC
15	2	Cadmium	1.58	7	3	0.21	0.811	Yes
15	2	Calcium	20900	7	7	6100		NoE
15	2	Carbon disulfide	0.0068	5	5			NoC
15	2	Cesium-137	0.041	8	8	0.28	0.0267	NoB
15	2	Chromium	59	24	13	43	15.6	Yes
15	2	Cobalt	9.1	2	2	13	1.37	NoB
15	2	Cobalt-60	-0.00178	5	5		0.00547	NoA
15	2	Copper	147.32	24	16	25	184	NoA
15	2	Dibenzofuran	0.2	1	1			NoC
15	2	Di-n-butyl phthalate	0.87	6	3			NoC
15	2	Fluoranthene	3.6	1	1		109	NoA
15	2	Fluorene	0.39	1	1		91.5	NoA
15	2	Iron	38889.2	19	19	28000	3220	Yes
15	2	Lead	98.67	24	19	23	400	NoA
15	2	Magnesium	2440	2	2	2100		NoE
15	2	Manganese	1370.76	19	19	820	419	Yes
15	2	Mercury	9.33	24	5	0.13	0.213	Yes
15	2	Molybdenum	1.4	19	2		23	NoA
15	2	Naphthalene	0.12	1	1		1.15	NoA
15	2	Neptunium-237	0.556	8	8		0.0839	Yes
15	2	Nickel	374.75	24	17	22	10.4	Yes
15	2	PCB, Total	0.33	10	1		0.0648	Yes
15	2	Phenanthrene	2.9	1	1			NoC
15	2	Plutonium-238	0.0307	8	8		3.21	NoA
15	2	Plutonium-239/240	0.0985	8	8		3.15	NoA
15	2	Pyrene	3	1	1		81.2	NoA
15	2	Selenium	1.7	24	2	0.7	23	NoA
15	2	Silver	10.62	24	3	2.7	2.61	Yes
15	2	Sodium	58.5	2	2	340		NoBE
15	2	Technetium-99	11.3	8	8	2.8	101	NoA
15	2	Thallium	0.35	7	2	0.34	0.368	NoA
15	2	Thorium-228	0.97	8	8	1.6		NoB
15	2	Thorium-230	1.08	8	8	1.4	4.1	NoAB
15	2	Thorium-232	1.03	8	8	1.5		NoB
15	2	Total PAH	2.1078	1	1		0.0197	Yes
15	2	Uranium	131.7	20	13	4.6	13.8	Yes
15	2	Uranium-234	6.51	8	8	1.2	5.47	Yes
15	2	Uranium-235	0.38	14	14	0.06	0.122	Yes
15	2	Uranium-238	12.1	8	8	1.2	0.517	Yes
15	2	Vanadium	37.2	7	7	37	0.0365	Yes
15	2	Zinc	255.82	24	24	60	1380	NoA
15	3	1,1-Dichloroethane	0.0061	3	1			NoC
15	3	2-Butanone	0.012	3	2			NoC
15	3	2-Hexanone	0.0064	3	1			NoC
15	3	Acenaphthene	0.1	1	1		117	NoA
15	3	Acenaphthylene	0.042	1	1			NoC
15	3	Acetone	0.036	3	2			NoC
15	3	Alpha activity	201	2	2			NoC
15	3	Aluminum	8790	5	5	12000	4410	NoB
15	3	Americium-241	0.437	5	5		1.5	NoA
15	3	Anthracene	0.24	1	1		747	NoA
15	3	Antimony	24.5	5	2	0.21	0.552	Yes
15	3	Arsenic	111.35	31	21	7.9	0.238	Yes
15	3	Barium	126	5	5	170	140	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
15	3	Benzo(ghi)perylene	0.37	1	1			NoC
15	3	Benzoic acid	0.39	2	2			NoC
15	3	Beryllium	0.76	5	4	0.69	0.00567	Yes
15	3	Beta activity	744	2	2			NoC
15	3	Bis(2-ethylhexyl)phthalate	0.39	5	2			NoC
15	3	Cadmium	11.9	5	4	0.21	0.811	Yes
15	3	Calcium	36700	5	5	6100		NoE
15	3	Carbon disulfide	0.0069	3	3			NoC
15	3	Cesium-137	0.2	5	5	0.28	0.0267	NoB
15	3	Chromium	119.13	31	19	43	15.6	Yes
15	3	Cobalt	34.1	2	2	13	1.37	Yes
15	3	Cobalt-60	-0.00214	3	3		0.00547	NoA
15	3	Copper	4360	31	22	25	184	Yes
15	3	Dibenzofuran	0.044	1	1			NoC
15	3	Dibromochloromethane	0.0083	3	1			NoC
15	3	Di-n-butyl phthalate	1.8	5	2			NoC
15	3	Fluoranthene	1.7	5	2		109	NoA
15	3	Fluorene	0.086	1	1		91.5	NoA
15	3	Iron	171000	28	28	28000	3220	Yes
15	3	Lead	1798.75	31	28	23	400	Yes
15	3	Magnesium	4380	2	2	2100		NoE
15	3	Manganese	2850	28	28	820	419	Yes
15	3	Mercury	12.23	31	3	0.13	0.213	Yes
15	3	Molybdenum	23.6	28	2		23	Yes
15	3	Neptunium-237	4.1	5	5		0.0839	Yes
15	3	Nickel	2410	31	20	22	10.4	Yes
15	3	PCB, Total	10	31	5		0.0648	Yes
15	3	Phenanthrene	0.89	1	1			NoC
15	3	Plutonium-238	0.12	5	5		3.21	NoA
15	3	Plutonium-239/240	2.78	5	5		3.15	NoA
15	3	Pyrene	1.3	1	1		81.2	NoA
15	3	Selenium	26.71	31	3	0.7	23	Yes
15	3	Silver	11.6	31	5	2.7	2.61	Yes
15	3	Sodium	266	2	2	340		NoBE
15	3	Technetium-99	367	5	5	2.8	101	Yes
15	3	Thallium	0.36	5	2	0.34	0.368	NoA
15	3	Thorium-228	1.09	5	5	1.6		NoB
15	3	Thorium-230	7.23	5	5	1.4	4.1	Yes
15	3	Thorium-232	1.05	5	5	1.5		NoB
15	3	Total PAH	1.4541	6	2		0.0197	Yes
15	3	Uranium	459	28	20	4.6	13.8	Yes
15	3	Uranium-234	69.6	5	5	1.2	5.47	Yes
15	3	Uranium-235	4.21	9	9	0.06	0.122	Yes
15	3	Uranium-238	96.7	5	5	1.2	0.517	Yes
15	3	Vanadium	34.9	5	5	37	0.0365	NoB
15	3	Zinc	1830	31	31	60	1380	Yes
15	4	Acenaphthene	0.17	1	1		117	NoA
15	4	Acenaphthylene	0.13	1	1			NoC
15	4	Acetone	0.0071	4	1			NoC
15	4	Alpha activity	71	2	2			NoC
15	4	Aluminum	8490	6	6	12000	4410	NoB
15	4	Americium-241	0.074	6	6		1.5	NoA
15	4	Anthracene	0.45	1	1		747	NoA
15	4	Antimony	7.4	6	2	0.21	0.552	Yes
15	4	Arsenic	51.31	34	17	7.9	0.238	Yes
15	4	Barium	124	6	6	170	140	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
15	4	Benzo(ghi)perylene	0.53	1	1			NoC
15	4	Benzoic acid	0.37	1	1			NoC
15	4	Beryllium	0.61	6	6	0.69	0.00567	NoB
15	4	Beta activity	187	2	2			NoC
15	4	Bis(2-ethylhexyl)phthalate	0.086	1	1			NoC
15	4	Butyl benzyl phthalate	0.039	1	1			NoC
15	4	Cadmium	1.57	6	4	0.21	0.811	Yes
15	4	Calcium	25600	6	6	6100		NoE
15	4	Carbon disulfide	0.0068	4	4			NoC
15	4	Cesium-137	0.14	6	6	0.28	0.0267	NoB
15	4	Chromium	150.66	34	26	43	15.6	Yes
15	4	Cobalt	7.8	2	2	13	1.37	NoB
15	4	Cobalt-60	-0.00173	4	4		0.00547	NoA
15	4	Copper	1273.93	34	28	25	184	Yes
15	4	Dibenzofuran	0.086	1	1			NoC
15	4	Di-n-butyl phthalate	4.1	5	4			NoC
15	4	Fluoranthene	2.8	1	1		109	NoA
15	4	Fluorene	0.14	1	1		91.5	NoA
15	4	Iron	142401.3	30	30	28000	3220	Yes
15	4	Lead	1040.18	34	30	23	400	Yes
15	4	Magnesium	2640	2	2	2100		NoE
15	4	Manganese	2487.8	30	29	820	419	Yes
15	4	Mercury	15.28	34	4	0.13	0.213	Yes
15	4	Molybdenum	20.54	30	7		23	NoA
15	4	Neptunium-237	0.8	6	6		0.0839	Yes
15	4	Nickel	3787.15	34	27	22	10.4	Yes
15	4	PCB, Total	50	35	14		0.0648	Yes
15	4	Phenanthrene	1.5	1	1			NoC
15	4	Plutonium-238	0.0377	6	6		3.21	NoA
15	4	Plutonium-239/240	0.39	6	6		3.15	NoA
15	4	Pyrene	2.1	1	1		81.2	NoA
15	4	Selenium	1.5	34	2	0.7	23	NoA
15	4	Silver	17.99	34	5	2.7	2.61	Yes
15	4	Sodium	112	2	2	340		NoBE
15	4	Technetium-99	46.3	6	6	2.8	101	NoA
15	4	Thallium	0.37	6	2	0.34	0.368	Yes
15	4	Thorium-228	1.05	6	6	1.6		NoB
15	4	Thorium-230	2.39	6	6	1.4	4.1	NoA
15	4	Thorium-232	1.02	6	6	1.5		NoB
15	4	Total PAH	2.4449	1	1		0.0197	Yes
15	4	Uranium	259.26	30	24	4.6	13.8	Yes
15	4	Uranium-234	10.7	6	6	1.2	5.47	Yes
15	4	Uranium-235	0.43	11	11	0.06	0.122	Yes
15	4	Uranium-238	18.7	6	6	1.2	0.517	Yes
15	4	Vanadium	26.1	6	6	37	0.0365	NoB
15	4	Zinc	2178.29	34	34	60	1380	Yes
15	5	Acenaphthene	0.036	1	1		117	NoA
15	5	Alpha activity	84	2	2			NoC
15	5	Aluminum	13800	4	4	12000	4410	Yes
15	5	Americium-241	0.034	2	2		1.5	NoA
15	5	Anthracene	0.064	1	1		747	NoA
15	5	Antimony	3.1	4	4	0.21	0.552	Yes
15	5	Arsenic	19.15	36	21	7.9	0.238	Yes
15	5	Barium	101	4	4	170	140	NoAB
15	5	Benzo(ghi)perylene	0.16	1	1			NoC
15	5	Benzoic acid	0.4	2	1			NoC

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15	5	Beryllium	0.47	4	4	0.69	0.00567	NoB
15	5	Beta activity	150	2	2			NoC
15	5	Cadmium	1.5	4	4	0.21	0.811	Yes
15	5	Calcium	134000	4	4	6100		NoE
15	5	Cesium-137	0.013	2	2	0.28	0.0267	NoAB
15	5	Chromium	66.14	36	13	43	15.6	Yes
15	5	Cobalt	9.6	4	4	13	1.37	NoB
15	5	Copper	6122.47	36	21	25	184	Yes
15	5	Fluoranthene	0.48	1	1		109	NoA
15	5	Iron	34998.73	36	36	28000	3220	Yes
15	5	Lead	139.05	36	35	23	400	NoA
15	5	Magnesium	3890	4	4	2100		NoE
15	5	Manganese	1285.51	36	36	820	419	Yes
15	5	Mercury	10.63	36	7	0.13	0.213	Yes
15	5	Molybdenum	1.8	36	4		23	NoA
15	5	Neptunium-237	0.69	2	2		0.0839	Yes
15	5	Nickel	676	36	15	22	10.4	Yes
15	5	PCB, Total	50	36	6		0.0648	Yes
15	5	Phenanthrene	0.28	1	1			NoC
15	5	Plutonium-238	0.014	2	2		3.21	NoA
15	5	Plutonium-239/240	0.104	2	2		3.15	NoA
15	5	Pyrene	0.43	1	1		81.2	NoA
15	5	Selenium	4.19	36	6	0.7	23	NoA
15	5	Silver	15.31	36	16	2.7	2.61	Yes
15	5	Sodium	141	4	4	340		NoBE
15	5	Technetium-99	107	2	2	2.8	101	Yes
15	5	Thallium	0.29	4	4	0.34	0.368	NoAB
15	5	Thorium-228	1.09	2	2	1.6		NoB
15	5	Thorium-230	1.21	2	2	1.4	4.1	NoAB
15	5	Thorium-232	1.05	2	2	1.5		NoB
15	5	Total PAH	0.5106	1	1		0.0197	Yes
15	5	Uranium	364.2	36	18	4.6	13.8	Yes
15	5	Uranium-234	5.83	2	2	1.2	5.47	Yes
15	5	Uranium-235	0.46	2	2	0.06	0.122	Yes
15	5	Uranium-238	10.3	2	2	1.2	0.517	Yes
15	5	Vanadium	36	4	4	37	0.0365	NoB
15	5	Zinc	3168.62	36	36	60	1380	Yes
15	6	Acenaphthene	0.2	1	1		117	NoA
15	6	Alpha activity	63	2	2			NoC
15	6	Aluminum	9250	2	2	12000	4410	NoB
15	6	Americium-241	0.016	2	2		1.5	NoA
15	6	Anthracene	0.38	1	1		747	NoA
15	6	Antimony	5.1	2	2	0.21	0.552	Yes
15	6	Arsenic	18.04	29	10	7.9	0.238	Yes
15	6	Barium	144	2	2	170	140	NoB
15	6	Benzo(ghi)perylene	0.44	1	1			NoC
15	6	Beryllium	0.48	2	2	0.69	0.00567	NoB
15	6	Beta activity	132	2	2			NoC
15	6	Cadmium	1.5	2	2	0.21	0.811	Yes
15	6	Calcium	156000	2	2	6100		NoE
15	6	Cesium-137	0.016	2	2	0.28	0.0267	NoAB
15	6	Chromium	57.97	29	7	43	15.6	Yes
15	6	Cobalt	16.2	2	2	13	1.37	Yes
15	6	Copper	793.22	29	16	25	184	Yes
15	6	Dibenzofuran	0.087	1	1			NoC
15	6	Fluoranthene	2.4	1	1		109	NoA
15	6	Fluorene	0.19	1	1		91.5	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
15	6	Iron	54500	29	29	28000	3220	Yes
15	6	Lead	169.9	29	28	23	400	NoA
15	6	Magnesium	5830	2	2	2100		NoE
15	6	Manganese	1072.34	29	29	820	419	Yes
15	6	Mercury	7.83	29	4	0.13	0.213	Yes
15	6	Molybdenum	3.4	29	2		23	NoA
15	6	Neptunium-237	0.64	2	2		0.0839	Yes
15	6	Nickel	616.54	29	15	22	10.4	Yes
15	6	PCB, Total	10	13	4		0.0648	Yes
15	6	Phenanthrene	1.8	1	1			NoC
15	6	Plutonium-238	0.026	2	2		3.21	NoA
15	6	Plutonium-239/240	0.17	2	2		3.15	NoA
15	6	Pyrene	1.9	1	1		81.2	NoA
15	6	Selenium	1.8	29	2	0.7	23	NoA
15	6	Silver	10.91	29	5	2.7	2.61	Yes
15	6	Sodium	152	2	2	340		NoBE
15	6	Technetium-99	32.5	2	2	2.8	101	NoA
15	6	Thallium	0.14	2	2	0.34	0.368	NoAB
15	6	Thorium-228	1.13	2	2	1.6		NoB
15	6	Thorium-230	1.94	2	2	1.4	4.1	NoA
15	6	Thorium-232	1.1	2	2	1.5		NoB
15	6	Total PAH	1.6235	1	1		0.0197	Yes
15	6	Uranium	112	29	13	4.6	13.8	Yes
15	6	Uranium-234	8.74	2	2	1.2	5.47	Yes
15	6	Uranium-235	0.57	2	2	0.06	0.122	Yes
15	6	Uranium-238	15.4	2	2	1.2	0.517	Yes
15	6	Vanadium	24.3	2	2	37	0.0365	NoB
15	6	Zinc	719.23	29	28	60	1380	NoA
15	7	Alpha activity	43	2	2			NoC
15	7	Aluminum	12900	3	3	12000	4410	Yes
15	7	Americium-241	0.01	2	2		1.5	NoA
15	7	Antimony	0.75	3	3	0.21	0.552	Yes
15	7	Arsenic	33.09	32	15	7.9	0.238	Yes
15	7	Barium	171	3	3	170	140	Yes
15	7	Benzo(ghi)perylene	0.054	1	1			NoC
15	7	Beryllium	0.73	3	3	0.69	0.00567	Yes
15	7	Beta activity	73.2	2	2			NoC
15	7	Cadmium	1	3	3	0.21	0.811	Yes
15	7	Calcium	96800	3	3	6100		NoE
15	7	Cesium-137	0.004	2	2	0.28	0.0267	NoAB
15	7	Chromium	78.71	32	12	43	15.6	Yes
15	7	Cobalt	10.9	3	3	13	1.37	NoB
15	7	Copper	1803.24	32	18	25	184	Yes
15	7	Fluoranthene	0.19	1	1		109	NoA
15	7	Iron	60521.86	32	32	28000	3220	Yes
15	7	Lead	278.59	32	31	23	400	NoA
15	7	Magnesium	3130	3	3	2100		NoE
15	7	Manganese	2903.39	32	30	820	419	Yes
15	7	Mercury	0.0744	32	3	0.13	0.213	NoAB
15	7	Molybdenum	2.2	32	3		23	NoA
15	7	Neptunium-237	0.223	2	2		0.0839	Yes
15	7	Nickel	834.44	32	18	22	10.4	Yes
15	7	PCB, Total	50	32	6		0.0648	Yes
15	7	Phenanthrene	0.11	1	1			NoC
15	7	Plutonium-238	0.046	2	2		3.21	NoA
15	7	Plutonium-239/240	0.116	2	2		3.15	NoA
15	7	Pyrene	0.15	1	1		81.2	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
15	7	Selenium	4.99	32	4	0.7	23	NoA
15	7	Silver	12.86	32	5	2.7	2.61	Yes
15	7	Sodium	221	3	3	340		NoBE
15	7	Technetium-99	12.8	2	2	2.8	101	NoA
15	7	Thallium	0.3	3	3	0.34	0.368	NoAB
15	7	Thorium-228	0.75	2	2	1.6		NoB
15	7	Thorium-230	1.06	2	2	1.4	4.1	NoAB
15	7	Thorium-232	0.83	2	2	1.5		NoB
15	7	Total PAH	0.15884	1	1		0.0197	Yes
15	7	Uranium	82.92	32	15	4.6	13.8	Yes
15	7	Uranium-234	6.49	2	2	1.2	5.47	Yes
15	7	Uranium-235	0.45	2	2	0.06	0.122	Yes
15	7	Uranium-238	8.05	2	2	1.2	0.517	Yes
15	7	Vanadium	33.6	3	3	37	0.0365	NoB
15	7	Zinc	1392.97	32	32	60	1380	Yes
15	8	Alpha activity	42.9	2	2			NoC
15	8	Aluminum	7600	2	2	12000	4410	NoB
15	8	Americium-241	0.02	2	2		1.5	NoA
15	8	Anthracene	0.065	1	1		747	NoA
15	8	Antimony	5.4	2	2	0.21	0.552	Yes
15	8	Arsenic	13.83	27	17	7.9	0.238	Yes
15	8	Barium	97.2	2	2	170	140	NoAB
15	8	Benzo(ghi)perylene	0.14	1	1			NoC
15	8	Beryllium	0.48	2	2	0.69	0.00567	NoB
15	8	Beta activity	99	2	2			NoC
15	8	Cadmium	0.74	2	2	0.21	0.811	NoA
15	8	Calcium	29300	2	2	6100		NoE
15	8	Cesium-137	0.023	2	2	0.28	0.0267	NoAB
15	8	Chromium	97.61	27	13	43	15.6	Yes
15	8	Cobalt	8.5	2	2	13	1.37	NoB
15	8	Copper	271.75	27	17	25	184	Yes
15	8	Fluoranthene	0.51	1	1		109	NoA
15	8	Iron	39124.51	27	27	28000	3220	Yes
15	8	Lead	78.61	27	27	23	400	NoA
15	8	Magnesium	2470	2	2	2100		NoE
15	8	Manganese	934.59	27	26	820	419	Yes
15	8	Mercury	10.04	27	4	0.13	0.213	Yes
15	8	Molybdenum	1.5	27	2		23	NoA
15	8	Neptunium-237	0.365	2	2		0.0839	Yes
15	8	Nickel	318.08	27	15	22	10.4	Yes
15	8	PCB, Total	4.9	12	1		0.0648	Yes
15	8	Phenanthrene	0.31	1	1			NoC
15	8	Plutonium-238	0.024	2	2		3.21	NoA
15	8	Plutonium-239/240	0.123	2	2		3.15	NoA
15	8	Pyrene	0.44	1	1		81.2	NoA
15	8	Selenium	3.99	27	3	0.7	23	NoA
15	8	Silver	14.24	27	3	2.7	2.61	Yes
15	8	Sodium	139	2	2	340		NoBE
15	8	Technetium-99	0.86	2	2	2.8	101	NoAB
15	8	Thallium	0.18	2	2	0.34	0.368	NoAB
15	8	Thorium-228	0.96	2	2	1.6		NoB
15	8	Thorium-230	1.61	2	2	1.4	4.1	NoA
15	8	Thorium-232	0.99	2	2	1.5		NoB
15	8	Total PAH	0.35879	2	2		0.0197	Yes
15	8	Uranium	81.68	27	15	4.6	13.8	Yes
15	8	Uranium-234	4.5	2	2	1.2	5.47	NoA
15	8	Uranium-235	0.304	2	2	0.06	0.122	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
15	8	Uranium-238	6.64	2	2	1.2	0.517	Yes
15	8	Vanadium	31.8	2	2	37	0.0365	NoB
15	8	Zinc	628.99	27	27	60	1380	NoA
15	9	Alpha activity	40.5	2	2			NoC
15	9	Aluminum	7640	2	2	12000	4410	NoB
15	9	Americium-241	0.021	2	2		1.5	NoA
15	9	Antimony	0.28	2	2	0.21	0.552	NoA
15	9	Arsenic	23.59	26	14	7.9	0.238	Yes
15	9	Barium	138	2	2	170	140	NoAB
15	9	Benzo(ghi)perylene	0.11	1	1			NoC
15	9	Benzoic acid	0.4	1	1			NoC
15	9	Beryllium	0.61	2	2	0.69	0.00567	NoB
15	9	Beta activity	67.1	2	2			NoC
15	9	Cadmium	0.075	2	2	0.21	0.811	NoAB
15	9	Calcium	7790	2	2	6100		NoE
15	9	Cesium-137	0.006	2	2	0.28	0.0267	NoAB
15	9	Chromium	140.57	26	6	43	15.6	Yes
15	9	Cobalt	12	2	2	13	1.37	NoB
15	9	Copper	293.87	26	12	25	184	Yes
15	9	Fluoranthene	0.27	1	1		109	NoA
15	9	Iron	42171.73	26	26	28000	3220	Yes
15	9	Lead	87.31	26	25	23	400	NoA
15	9	Magnesium	848	2	2	2100		NoBE
15	9	Manganese	2716.85	26	26	820	419	Yes
15	9	Mercury	6.54	26	3	0.13	0.213	Yes
15	9	Molybdenum	1.8	26	2		23	NoA
15	9	Neptunium-237	0.128	2	2		0.0839	Yes
15	9	Nickel	208.34	26	12	22	10.4	Yes
15	9	PCB, Total	0.33	13	1		0.0648	Yes
15	9	Phenanthrene	0.13	1	1			NoC
15	9	Plutonium-238	0.015	2	2		3.21	NoA
15	9	Plutonium-239/240	0.042	2	2		3.15	NoA
15	9	Pyrene	0.27	1	1		81.2	NoA
15	9	Selenium	1.3	26	2	0.7	23	NoA
15	9	Silver	15.42	26	7	2.7	2.61	Yes
15	9	Sodium	68.4	2	2	340		NoBE
15	9	Technetium-99	1.43	2	2	2.8	101	NoAB
15	9	Thallium	0.31	2	2	0.34	0.368	NoAB
15	9	Thorium-228	0.9	2	2	1.6		NoB
15	9	Thorium-230	0.98	2	2	1.4	4.1	NoAB
15	9	Thorium-232	0.9	2	2	1.5		NoB
15	9	Total PAH	0.23832	1	1		0.0197	Yes
15	9	Uranium	43.96	26	14	4.6	13.8	Yes
15	9	Uranium-234	4.33	2	2	1.2	5.47	NoA
15	9	Uranium-235	0.242	2	2	0.06	0.122	Yes
15	9	Uranium-238	7.12	2	2	1.2	0.517	Yes
15	9	Vanadium	31.9	2	2	37	0.0365	NoB
15	9	Zinc	487.87	26	26	60	1380	NoA
15	10	Alpha activity	24.2	2	2			NoC
15	10	Aluminum	8290	3	3	12000	4410	NoB
15	10	Americium-241	0.004	2	2		1.5	NoA
15	10	Antimony	0.42	3	3	0.21	0.552	NoA
15	10	Arsenic	9.75	37	17	7.9	0.238	Yes
15	10	Barium	125	3	3	170	140	NoAB
15	10	Benzo(ghi)perylene	0.057	1	1			NoC
15	10	Beryllium	0.52	3	3	0.69	0.00567	NoB
15	10	Beta activity	31.5	2	2			NoC

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
15	10	Bis(2-ethylhexyl)phthalate	0.12	2	1			NoC
15	10	Cadmium	0.16	3	3	0.21	0.811	NoAB
15	10	Calcium	35200	3	3	6100		NoE
15	10	Cesium-137	0.014	2	2	0.28	0.0267	NoAB
15	10	Chromium	62.91	37	9	43	15.6	Yes
15	10	Cobalt	11.4	3	3	13	1.37	NoB
15	10	Copper	75.07	37	5	25	184	NoA
15	10	Fluoranthene	0.08	3	3		109	NoA
15	10	Iron	21267.96	37	37	28000	3220	NoB
15	10	Lead	25.53	37	31	23	400	NoA
15	10	Magnesium	1640	3	3	2100		NoBE
15	10	Manganese	738.21	37	35	820	419	NoB
15	10	Mercury	7.84	37	4	0.13	0.213	Yes
15	10	Molybdenum	1.3	37	3		23	NoA
15	10	Neptunium-237	0.009	2	2		0.0839	NoA
15	10	Nickel	226.39	37	16	22	10.4	Yes
15	10	Plutonium-238	0.048	2	2		3.21	NoA
15	10	Plutonium-239/240	0.02	2	2		3.15	NoA
15	10	Pyrene	0.089	3	3		81.2	NoA
15	10	Selenium	1.6	37	3	0.7	23	NoA
15	10	Silver	10.81	37	5	2.7	2.61	Yes
15	10	Sodium	51.3	3	3	340		NoBE
15	10	Technetium-99	9.22	2	2	2.8	101	NoA
15	10	Thallium	0.12	2	2	0.34	0.368	NoAB
15	10	Thorium-228	0.84	2	2	1.6		NoB
15	10	Thorium-230	1	2	2	1.4	4.1	NoAB
15	10	Thorium-232	0.87	2	2	1.5		NoB
15	10	Total PAH	0.128447	3	3		0.0197	Yes
15	10	Uranium	90.15	37	8	4.6	13.8	Yes
15	10	Uranium-234	0.73	2	2	1.2	5.47	NoAB
15	10	Uranium-235	0.055	2	2	0.06	0.122	NoAB
15	10	Uranium-238	1.14	2	2	1.2	0.517	NoB
15	10	Vanadium	25.6	3	3	37	0.0365	NoB
15	10	Zinc	239.58	37	37	60	1380	NoA
16	1	2-Butanone	0.006	3	1			NoC
16	1	Acetone	0.019	3	2			NoC
16	1	Aluminum	10000	4	4	12000	4410	NoB
16	1	Arsenic	6.3	3	3	7.9	0.238	NoB
16	1	Barium	172	4	4	170	140	Yes
16	1	Beryllium	0.69	3	3	0.69	0.00567	Yes
16	1	Bis(2-ethylhexyl)phthalate	0.16	3	2			NoC
16	1	Calcium	3050	3	3	6100		NoBE
16	1	Cesium-137	1.1	1	1	0.28	0.0267	Yes
16	1	Chromium	14.5	4	4	43	15.6	NoAB
16	1	Cobalt	9.6	3	3	13	1.37	NoB
16	1	Copper	15.4	4	4	25	184	NoAB
16	1	Fluoranthene	0.14	1	1		109	NoA
16	1	Iron	19300	4	4	28000	3220	NoB
16	1	Lead	14.9	3	3	23	400	NoAB
16	1	Magnesium	4330	4	4	2100		NoE
16	1	Manganese	804	4	4	820	419	NoB
16	1	Methylene chloride	0.003	3	2			NoC
16	1	Nickel	24.7	4	4	22	10.4	Yes
16	1	PCB, Total	0.096	1	1		0.0648	Yes
16	1	Sodium	293	4	4	340		NoBE

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
16	1	Technetium-99	49.4	1	1	2.8	101	NoA
16	1	Total PAH	0.0272	1	1		0.0197	Yes
16	1	Total Xylene	0.004	3	1		7.96	NoA
16	1	Vanadium	29.9	4	4	37	0.0365	NoB
16	1	Zinc	163	4	4	60	1380	NoA
16	2	Alpha activity	23.6	1	1			NoC
16	2	Aluminum	11300	2	2	12000	4410	NoB
16	2	Americium-241	0.0008	1	1		1.5	NoA
16	2	Antimony	0.18	1	1	0.21	0.552	NoAB
16	2	Arsenic	10.22	12	7	7.9	0.238	Yes
16	2	Barium	157	2	2	170	140	NoB
16	2	Beryllium	0.84	2	2	0.69	0.00567	Yes
16	2	Beta activity	25.1	1	1			NoC
16	2	Calcium	8760	2	2	6100		NoE
16	2	Cesium-137	0.014	1	1	0.28	0.0267	NoAB
16	2	Chromium	50.32	12	6	43	15.6	Yes
16	2	Cobalt	9.67	2	2	13	1.37	NoB
16	2	Copper	10.4	12	2	25	184	NoAB
16	2	Iron	22800	12	12	28000	3220	NoB
16	2	Lead	16.33	11	11	23	400	NoAB
16	2	Magnesium	1530	2	2	2100		NoBE
16	2	Manganese	554.63	12	12	820	419	NoB
16	2	Molybdenum	0.77	11	1		23	NoA
16	2	Neptunium-237	0	1	1		0.0839	NoA
16	2	Nickel	86.37	12	4	22	10.4	Yes
16	2	PCB, Total	0.13	11	1		0.0648	Yes
16	2	Plutonium-238	-0.0012	1	1		3.21	NoA
16	2	Plutonium-239/240	0.0042	1	1		3.15	NoA
16	2	Selenium	3.58	11	2	0.7	23	NoA
16	2	Silver	10.16	11	2	2.7	2.61	Yes
16	2	Sodium	45.7	1	1	340		NoBE
16	2	Technetium-99	2.22	2	2	2.8	101	NoAB
16	2	Thallium	0.3	1	1	0.34	0.368	NoAB
16	2	Thorium-228	1.06	1	1	1.6		NoB
16	2	Thorium-230	1.01	1	1	1.4	4.1	NoAB
16	2	Thorium-232	0.99	1	1	1.5		NoB
16	2	Uranium	2.17	11	1	4.6	13.8	NoAB
16	2	Uranium-234	0.8	1	1	1.2	5.47	NoAB
16	2	Uranium-235	0.049	1	1	0.06	0.122	NoAB
16	2	Uranium-238	0.72	1	1	1.2	0.517	NoB
16	2	Vanadium	35.5	2	2	37	0.0365	NoB
16	2	Zinc	114	12	12	60	1380	NoA
16	3	Alpha activity	26.3	1	1			NoC
16	3	Aluminum	14600	3	3	12000	4410	Yes
16	3	Americium-241	-0.0006	1	1		1.5	NoA
16	3	Antimony	0.18	2	1	0.21	0.552	NoAB
16	3	Arsenic	10.6	8	5	7.9	0.238	Yes
16	3	Barium	253	3	3	170	140	Yes
16	3	Beryllium	0.75	2	1	0.69	0.00567	Yes
16	3	Beta activity	28.5	1	1			NoC
16	3	Cadmium	0.049	2	1	0.21	0.811	NoAB
16	3	Calcium	4020	2	2	6100		NoBE
16	3	Cesium-137	-0.02	1	1	0.28	0.0267	NoAB
16	3	Chromium	46.64	9	5	43	15.6	Yes
16	3	Cobalt	11.9	3	3	13	1.37	NoB
16	3	Copper	16.1	9	3	25	184	NoAB
16	3	Iron	25300	9	9	28000	3220	NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
16	3	Lead	47.3	8	8	23	400	NoA
16	3	Magnesium	4040	3	3	2100		NoE
16	3	Manganese	1460	9	9	820	419	Yes
16	3	Molybdenum	0.69	7	1		23	NoA
16	3	Neptunium-237	-0.0037	1	1		0.0839	NoA
16	3	Nickel	90.81	8	5	22	10.4	Yes
16	3	PCB, Total	1.37	3	2		0.0648	Yes
16	3	Plutonium-238	0.005	1	1		3.21	NoA
16	3	Plutonium-239/240	0.0074	1	1		3.15	NoA
16	3	Selenium	1.9	8	1	0.7	23	NoA
16	3	Silver	0.068	8	1	2.7	2.61	NoAB
16	3	Sodium	270	2	1	340		NoBE
16	3	Technetium-99	3.73	2	2	2.8	101	NoA
16	3	Thallium	0.32	2	1	0.34	0.368	NoAB
16	3	Thorium-228	1.03	1	1	1.6		NoB
16	3	Thorium-230	1.04	1	1	1.4	4.1	NoAB
16	3	Thorium-232	1	1	1	1.5		NoB
16	3	Uranium	2.48	7	1	4.6	13.8	NoAB
16	3	Uranium-234	0.84	1	1	1.2	5.47	NoAB
16	3	Uranium-235	0.037	1	1	0.06	0.122	NoAB
16	3	Uranium-238	0.83	1	1	1.2	0.517	NoB
16	3	Vanadium	36.4	3	3	37	0.0365	NoB
16	3	Zinc	63.3	8	8	60	1380	NoA
16	4	Acenaphthene	0.33	1	1		117	NoA
16	4	Acenaphthylene	0.61	1	1			NoC
16	4	Aluminum	14100	2	2	12000	4410	Yes
16	4	Americium-241	0.654	3	3		1.5	NoA
16	4	Anthracene	0.75	1	1		747	NoA
16	4	Arsenic	5.66	6	2	7.9	0.238	NoB
16	4	Barium	75.5	2	2	170	140	NoAB
16	4	Benzo(ghi)perylene	0.55	1	1			NoC
16	4	Beryllium	0.68	1	1	0.69	0.00567	NoB
16	4	Calcium	260000	2	2	6100		NoE
16	4	Cesium-137	44.1	4	4	0.28	0.0267	Yes
16	4	Chromium	24.7	6	2	43	15.6	NoB
16	4	Cobalt	6.24	2	2	13	1.37	NoB
16	4	Cobalt-60	0.00853	3	3		0.00547	Yes
16	4	Copper	7.99	6	2	25	184	NoAB
16	4	Fluoranthene	2.3	1	1		109	NoA
16	4	Iron	19500	6	6	28000	3220	NoB
16	4	Lead	16.3	5	4	23	400	NoAB
16	4	Magnesium	22200	2	2	2100		NoE
16	4	Manganese	339.53	6	6	820	419	NoAB
16	4	Neptunium-237	7.12	3	3		0.0839	Yes
16	4	Nickel	112.81	6	3	22	10.4	Yes
16	4	PCB, Total	0.429	3	1		0.0648	Yes
16	4	Phenanthrene	0.85	1	1			NoC
16	4	Plutonium-238	-0.0741	3	3		3.21	NoA
16	4	Plutonium-239/240	1.43	3	3		3.15	NoA
16	4	Pyrene	2.7	1	1		81.2	NoA
16	4	Selenium	4.26	5	1	0.7	23	NoA
16	4	Sodium	213	1	1	340		NoBE
16	4	Technetium-99	355	5	5	2.8	101	Yes
16	4	Thorium-228	0.37	3	3	1.6		NoB
16	4	Thorium-230	5.29	3	3	1.4	4.1	Yes
16	4	Thorium-232	0.295	3	3	1.5		NoB
16	4	Total PAH	2.928	1	1		0.0197	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
16	4	Uranium-234	119	3	3	1.2	5.47	Yes
16	4	Uranium-235	8.23	3	3	0.06	0.122	Yes
16	4	Uranium-238	270	3	3	1.2	0.517	Yes
16	4	Vanadium	33.4	2	2	37	0.0365	NoB
16	4	Zinc	124	6	6	60	1380	NoA
19	1	Aluminum	11000	27	27	12000	4410	NoB
19	1	Americium-241	0.0179	9	9		1.5	NoA
19	1	Anthracene	1.4	27	2		747	NoA
19	1	Arsenic	10.1	27	27	7.9	0.238	Yes
19	1	Barium	130	27	27	170	140	NoAB
19	1	Benzo(ghi)perylene	2.1	27	6			NoC
19	1	Beryllium	1.4	27	18	0.69	0.00567	Yes
19	1	Cadmium	5.7	27	8	0.21	0.811	Yes
19	1	Calcium	267000	27	27	6100		NoE
19	1	Cesium-137	0.0361	9	9	0.28	0.0267	NoB
19	1	Chromium	28.9	27	25	43	15.6	NoB
19	1	Cobalt	13.5	23	22	13	1.37	Yes
19	1	Copper	1800	27	24	25	184	Yes
19	1	Diethyl phthalate	0.52	9	1			NoC
19	1	Fluoranthene	9.1	27	14		109	NoA
19	1	Iron	18000	27	27	28000	3220	NoB
19	1	Lead	50.8	27	27	23	400	NoA
19	1	Magnesium	15900	27	27	2100		NoE
19	1	Manganese	723	27	27	820	419	NoB
19	1	Mercury	0.101	27	10	0.13	0.213	NoAB
19	1	Naphthalene	1.1	4	1		1.15	NoA
19	1	Neptunium-237	0.043	8	8		0.0839	NoA
19	1	Nickel	438	27	24	22	10.4	Yes
19	1	Phenanthrene	8.1	27	10			NoC
19	1	Plutonium-238	0.00266	8	8		3.21	NoA
19	1	Plutonium-239/240	0.128	9	9		3.15	NoA
19	1	Pyrene	8.6	27	14		81.2	NoA
19	1	Selenium	0.42	27	2	0.7	23	NoAB
19	1	Sodium	576	27	20	340		NoE
19	1	Technetium-99	37	9	9	2.8	101	NoA
19	1	Thallium	0.98	27	9	0.34	0.368	Yes
19	1	Thorium-228	1.41	9	9	1.6		NoB
19	1	Thorium-230	3.21	9	9	1.4	4.1	NoA
19	1	Thorium-232	1.39	9	9	1.5		NoB
19	1	Total PAH	5.2264	27	7		0.0197	Yes
19	1	Uranium	164	9	8	4.6	13.8	Yes
19	1	Uranium-234	27.7	9	9	1.2	5.47	Yes
19	1	Uranium-235	1.3	9	9	0.06	0.122	Yes
19	1	Uranium-238	30.6	9	9	1.2	0.517	Yes
19	1	Vanadium	38.3	27	27	37	0.0365	Yes
19	1	Zinc	241	27	22	60	1380	NoA
26	1	2,4-Dinitrotoluene	0.457	6	1			NoC
26	1	Acetone	0.19	1	1			NoC
26	1	Alpha activity	53.1	1	1			NoC
26	1	Aluminum	16100	11	11	12000	4410	Yes
26	1	Americium-241	0.989	16	16		1.5	NoA
26	1	Antimony	0.8	8	2	0.21	0.552	Yes
26	1	Arsenic	19.7	28	19	7.9	0.238	Yes
26	1	Barium	126	14	14	170	140	NoAB
26	1	Benzo(ghi)perylene	0.047	6	1			NoC
26	1	Beryllium	24.9	16	13	0.69	0.00567	Yes
26	1	Beta activity	55.2	1	1			NoC

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
26	1	Bis(2-ethylhexyl)phthalate	0.04	6	1			NoC
26	1	Cadmium	3.27	14	6	0.21	0.811	Yes
26	1	Calcium	113000	11	11	6100		NoE
26	1	Cesium-137	10.8	17	17	0.28	0.0267	Yes
26	1	Chloroform	0.011	7	1		0.122	NoA
26	1	Chromium	41.7	23	15	43	15.6	NoB
26	1	cis-1,2-Dichloroethene	0.015	4	1		1.05	NoA
26	1	Cobalt	16.2	11	11	13	1.37	Yes
26	1	Cobalt-60	0.0165	10	10		0.00547	Yes
26	1	Copper	30.2	20	14	25	184	NoA
26	1	Fluoranthene	0.29	6	1		109	NoA
26	1	Iron	27200	20	20	28000	3220	NoB
26	1	Lead	27.4	23	18	23	400	NoA
26	1	Magnesium	4090	11	11	2100		NoE
26	1	Manganese	1790	20	19	820	419	Yes
26	1	Mercury	6.78	23	6	0.13	0.213	Yes
26	1	Methylene chloride	0.0015	7	1			NoC
26	1	Molybdenum	0.97	12	1		23	NoA
26	1	Neptunium-237	0.792	15	15		0.0839	Yes
26	1	Nickel	264	20	13	22	10.4	Yes
26	1	PCB, Total	2.53	23	14		0.0648	Yes
26	1	Phenanthrene	0.064	6	1			NoC
26	1	Plutonium-238	0.232	11	11		3.21	NoA
26	1	Plutonium-239/240	14.1	16	16		3.15	Yes
26	1	Pyrene	0.25	6	1		81.2	NoA
26	1	Selenium	0.78	17	2	0.7	23	NoA
26	1	Silver	12.57	15	4	2.7	2.61	Yes
26	1	Sodium	337	8	6	340		NoBE
26	1	Technetium-99	26.6	17	17	2.8	101	NoA
26	1	Thallium	0.41	8	2	0.34	0.368	Yes
26	1	Thorium-228	0.9	11	11	1.6		NoB
26	1	Thorium-230	9.69	16	16	1.4	4.1	Yes
26	1	Thorium-232	1.03	17	17	1.5		NoB
26	1	Total PAH	0.17419	9	2		0.0197	Yes
26	1	Trichloroethene	0.034	7	1		0.0234	Yes
26	1	Uranium	481.46	38	34	4.6	13.8	Yes
26	1	Uranium-233/234	2.36	5	5	1.2	5.47	NoA
26	1	Uranium-234	12.2	11	11	1.2	5.47	Yes
26	1	Uranium-235	1.96	24	24	0.06	0.122	Yes
26	1	Uranium-238	108	16	16	1.2	0.517	Yes
26	1	Vanadium	33.8	11	11	37	0.0365	NoB
26	1	Zinc	90.4	20	20	60	1380	NoA
26	2	1,1,1-Trichloroethane	0.0012	3	1			NoC
26	2	1,2,4-Trichlorobenzene	0.0039	1	1			NoC
26	2	1,2-Dichlorobenzene	0.0026	1	1			NoC
26	2	1,2-Dimethylbenzene	0.00086	1	1		53.5	NoA
26	2	1,3-Dichlorobenzene	0.0028	1	1			NoC
26	2	1,4-Dichlorobenzene	0.0037	1	1			NoC
26	2	Acetone	0.89	7	4			NoC
26	2	Alpha activity	21	1	1			NoC
26	2	Aluminum	34600	11	11	12000	4410	Yes
26	2	Americium-241	0.248	10	10		1.5	NoA
26	2	Antimony	1	8	3	0.21	0.552	Yes
26	2	Arsenic	81.4	27	15	7.9	0.238	Yes
26	2	Barium	213	11	11	170	140	Yes
26	2	Benzene	0.00063	1	1		0.333	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
26	2	Beryllium	16.8	12	11	0.69	0.00567	Yes
26	2	Beta activity	32.2	1	1			NoC
26	2	Bis(2-ethylhexyl)phthalate	0.05	8	3			NoC
26	2	Cadmium	2.5	11	5	0.21	0.811	Yes
26	2	Calcium	203000	11	11	6100		NoE
26	2	Carbon disulfide	0.001	8	3			NoC
26	2	Cesium-137	11.2	10	10	0.28	0.0267	Yes
26	2	Chromium	59.9	26	12	43	15.6	Yes
26	2	cis-1,2-Dichloroethene	0.0044	2	1		1.05	NoA
26	2	Cobalt	90.5	11	11	13	1.37	Yes
26	2	Cobalt-60	0.00473	5	5		0.00547	NoA
26	2	Copper	220	26	11	25	184	Yes
26	2	Di-n-butyl phthalate	1.637	8	3			NoC
26	2	Ethylbenzene	0.001	1	1		1.58	NoA
26	2	Fluoranthene	0.044	8	1		109	NoA
26	2	Iron	85100	26	26	28000	3220	Yes
26	2	Lead	39.2	26	23	23	400	NoA
26	2	m,p-Xylene	0.0019	1	1		7.96	NoA
26	2	Magnesium	8050	11	11	2100		NoE
26	2	Manganese	1505.82	26	26	820	419	Yes
26	2	Mercury	14.04	26	6	0.13	0.213	Yes
26	2	Methylene chloride	0.079	8	5			NoC
26	2	Molybdenum	20.1	19	3		23	NoA
26	2	Naphthalene	0.0048	5	1		1.15	NoA
26	2	Neptunium-237	1.88	9	9		0.0839	Yes
26	2	Nickel	188	26	12	22	10.4	Yes
26	2	PCB, Total	6.08	18	17		0.0648	Yes
26	2	Phenanthrene	1.01	4	2			NoC
26	2	Plutonium-238	0.069	8	8		3.21	NoA
26	2	Plutonium-239	0.1	1	1		3.15	NoA
26	2	Plutonium-239/240	2.42	9	9		3.15	NoA
26	2	Pyrene	0.069	8	1		81.2	NoA
26	2	Selenium	13.6	26	5	0.7	23	NoA
26	2	Silver	10.64	23	3	2.7	2.61	Yes
26	2	Sodium	354	11	11	340		NoE
26	2	Styrene	0.00099	1	1			NoC
26	2	Technetium-99	44.5	10	10	2.8	101	NoA
26	2	Thallium	13.9	11	3	0.34	0.368	Yes
26	2	Thorium-228	2.21	8	8	1.6		NoC
26	2	Thorium-230	37.6	10	10	1.4	4.1	Yes
26	2	Thorium-232	2.03	9	9	1.5		NoC
26	2	Toluene	0.32	7	1			NoC
26	2	Total PAH	0.023	8	2		0.0197	Yes
26	2	Trichloroethene	0.0034	10	5		0.0234	NoA
26	2	Uranium	1050	21	6	4.6	13.8	Yes
26	2	Uranium-233/234	1.15	1	1	1.2	5.47	NoAB
26	2	Uranium-234	27.5	9	9	1.2	5.47	Yes
26	2	Uranium-235	3.3	13	13	0.06	0.122	Yes
26	2	Uranium-238	73.6	10	10	1.2	0.517	Yes
26	2	Vanadium	40.8	11	11	37	0.0365	Yes
26	2	Zinc	800	26	26	60	1380	NoA
26	3	2-Methylnaphthalene	6.6	16	3			NoC
26	3	Acenaphthene	0.05	11	1		117	NoA
26	3	Acetone	1.1	18	3			NoC
26	3	Alpha activity	31.2	2	2			NoC
26	3	Aluminum	17500	27	27	12000	4410	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
26	3	Americium-241	0.19	22	22		1.5	NoA
26	3	Anthracene	0.63	11	2		747	NoA
26	3	Antimony	1.4	27	5	0.21	0.552	Yes
26	3	Arsenic	130.36	44	26	7.9	0.238	Yes
26	3	Barium	815.02	35	35	170	140	Yes
26	3	Benzo(ghi)perylene	0.58	11	2			NoC
26	3	Beryllium	12	27	23	0.69	0.00567	Yes
26	3	Beta activity	28.9	2	2			NoC
26	3	Bis(2-ethylhexyl)phthalate	1.1	13	4			NoC
26	3	Cadmium	2.34	35	6	0.21	0.811	Yes
26	3	Calcium	230000	18	18	6100		NoE
26	3	Cesium-137	2.13	22	22	0.28	0.0267	Yes
26	3	Chromium	66.62	44	37	43	15.6	Yes
26	3	cis-1,2-Dichloroethene	0.00059	1	1		1.05	NoA
26	3	Cobalt	23.8	18	18	13	1.37	Yes
26	3	Cobalt-60	0.00314	11	11		0.00547	NoA
26	3	Copper	149	36	28	25	184	NoA
26	3	Di-n-butyl phthalate	1.67	7	1			NoC
26	3	Fluoranthene	5.98	9	4		109	NoA
26	3	Fluorene	0.05	11	1		91.5	NoA
26	3	Iron	30200	36	36	28000	3220	Yes
26	3	Lead	119	44	24	23	400	NoA
26	3	Magnesium	5040	18	18	2100		NoE
26	3	Manganese	935	36	36	820	419	Yes
26	3	Mercury	12.3	44	13	0.13	0.213	Yes
26	3	Methylene chloride	0.012	18	2			NoC
26	3	Molybdenum	0.87	13	3		23	NoA
26	3	Naphthalene	4.1	28	5		1.15	Yes
26	3	Neptunium-237	1.58	22	22		0.0839	Yes
26	3	Nickel	102	44	30	22	10.4	Yes
26	3	N-Nitrosodiphenylamine	0.823	13	1			NoC
26	3	PCB, Total	11	67	11		0.0648	Yes
26	3	Pentachlorophenol	2.1	13	1			NoC
26	3	Phenanthrene	4.32	28	6			NoC
26	3	Plutonium-238	0.043	13	13		3.21	NoA
26	3	Plutonium-239	0.39	2	2		3.15	NoA
26	3	Plutonium-239/240	2.16	22	22		3.15	NoA
26	3	Pyrene	5.66	11	5		81.2	NoA
26	3	Selenium	12.5	44	13	0.7	23	NoA
26	3	Silver	83.3	44	13	2.7	2.61	Yes
26	3	Sodium	417	8	7	340		NoE
26	3	Technetium-99	187	26	26	2.8	101	Yes
26	3	Thallium	0.6	31	4	0.34	0.368	Yes
26	3	Thorium-228	0.97	13	13	1.6		NoB
26	3	Thorium-230	26	24	24	1.4	4.1	Yes
26	3	Thorium-232	1.03	13	13	1.5		NoB
26	3	Toluene	0.31	18	3			NoC
26	3	Total PAH	2.14542	29	5		0.0197	Yes
26	3	Trichloroethene	0.011	23	3		0.0234	NoA
26	3	Uranium	187	34	12	4.6	13.8	Yes
26	3	Uranium-234	140	23	23	1.2	5.47	Yes
26	3	Uranium-235	4.7	38	38	0.06	0.122	Yes
26	3	Uranium-238	150	23	23	1.2	0.517	Yes
26	3	Vanadium	106	27	27	37	0.0365	Yes
26	3	Zinc	122	27	27	60	1380	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
26	4	2,6-Dinitrotoluene	0.432	20	1			NoC
26	4	Acenaphthene	0.041	26	1		117	NoA
26	4	Acetone	0.14	24	6			NoC
26	4	Alpha activity	872	2	2			NoC
26	4	Aluminum	17100	34	34	12000	4410	Yes
26	4	Americium-241	2.93	27	27		1.5	Yes
26	4	Anthracene	0.14	27	1		747	NoA
26	4	Antimony	1.9	34	7	0.21	0.552	Yes
26	4	Arsenic	12.62	48	19	7.9	0.238	Yes
26	4	Barium	158	34	34	170	140	NoB
26	4	Benzo(ghi)perylene	0.13	25	3			NoC
26	4	Beryllium	1.02	37	28	0.69	0.00567	Yes
26	4	Beta activity	2040	2	2			NoC
26	4	Bis(2-ethylhexyl)phthalate	5.7	24	8			NoC
26	4	Cadmium	2.73	34	11	0.21	0.811	Yes
26	4	Calcium	29100	21	21	6100		NoE
26	4	Cesium-137	1.69	27	27	0.28	0.0267	Yes
26	4	Chromium	461	51	40	43	15.6	Yes
26	4	cis-1,2-Dichloroethene	0.00031	3	1		1.05	NoA
26	4	Cobalt	23.6	21	20	13	1.37	Yes
26	4	Cobalt-60	0.0116	12	12		0.00547	Yes
26	4	Copper	9520	48	36	25	184	Yes
26	4	Dimethyl phthalate	0.430000071	14	1			NoC
26	4	Di-n-butyl phthalate	1.855	15	6			NoC
26	4	Fluoranthene	0.72	31	6		109	NoA
26	4	Fluorene	0.049	27	1		91.5	NoA
26	4	Iron	51700	48	48	28000	3220	Yes
26	4	Lead	411	48	27	23	400	Yes
26	4	Magnesium	3290	21	21	2100		NoE
26	4	Manganese	1800	48	47	820	419	Yes
26	4	Mercury	12.4	51	16	0.13	0.213	Yes
26	4	Methylene chloride	0.0036	18	6			NoC
26	4	Molybdenum	0.75	15	1		23	NoA
26	4	Neptunium-237	55	26	26		0.0839	Yes
26	4	Nickel	17600	48	36	22	10.4	Yes
26	4	PCB, Total	1.9	97	16		0.0648	Yes
26	4	Phenanthrene	0.87	40	4			NoC
26	4	Plutonium-238	0.39	14	14		3.21	NoA
26	4	Plutonium-239/240	15.9	27	27		3.15	Yes
26	4	Pyrene	1.6	40	6		81.2	NoA
26	4	Selenium	1.1	48	3	0.7	23	NoA
26	4	Silver	4.12	48	6	2.7	2.61	Yes
26	4	Sodium	1170	12	12	340		NoE
26	4	Technetium-99	1870	28	28	2.8	101	Yes
26	4	Thallium	0.34	24	1	0.34	0.368	NoA
26	4	Thorium-228	1.36	14	14	1.6		NoB
26	4	Thorium-230	111	27	27	1.4	4.1	Yes
26	4	Thorium-232	1.47	14	14	1.5		NoB
26	4	Toluene	0.0018	24	4			NoC
26	4	Total PAH	0.41535	40	4		0.0197	Yes
26	4	Trichloroethene	0.01	28	1		0.0234	NoA
26	4	Uranium	3100	41	26	4.6	13.8	Yes
26	4	Uranium-234	437	27	27	1.2	5.47	Yes
26	4	Uranium-235	31.9	54	54	0.06	0.122	Yes
26	4	Uranium-238	1040	27	27	1.2	0.517	Yes
26	4	Vanadium	72.6	34	34	37	0.0365	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
26	4	Vinyl acetate	0.028	11	2			NoC
26	4	Zinc	181	35	35	60	1380	NoA
27	1	1,1,1-Trichloroethane	0.015	9	1			NoC
27	1	Aluminum	8230	9	9	12000	4410	NoB
27	1	Americium-241	0.0516	2	2		1.5	NoA
27	1	Arsenic	4.8	9	9	7.9	0.238	NoB
27	1	Barium	110	9	9	170	140	NoAB
27	1	Beryllium	0.66	9	9	0.69	0.00567	NoB
27	1	Calcium	26200	9	9	6100		NoE
27	1	Cesium-137	-0.00892	2	2	0.28	0.0267	NoAB
27	1	Chromium	13.2	9	9	43	15.6	NoAB
27	1	cis-1,2-Dichloroethene	0.004	9	1		1.05	NoA
27	1	Cobalt	10.5	9	9	13	1.37	NoB
27	1	Cobalt-60	0.0101	2	2		0.00547	Yes
27	1	Copper	23	9	9	25	184	NoAB
27	1	Iron	16800	9	9	28000	3220	NoB
27	1	Lead	17.1	9	9	23	400	NoAB
27	1	Magnesium	2660	9	9	2100		NoE
27	1	Manganese	519	9	9	820	419	NoB
27	1	Mercury	0.049	9	2	0.13	0.213	NoAB
27	1	Neptunium-237	0.0353	2	2		0.0839	NoA
27	1	Nickel	39.7	9	9	22	10.4	Yes
27	1	PCB, Total	0.072	9	2		0.0648	Yes
27	1	Sodium	173	9	9	340		NoBE
27	1	Uranium-234	0.9	2	2	1.2	5.47	NoAB
27	1	Uranium-238	0.783	2	2	1.2	0.517	NoB
27	1	Vanadium	24.4	9	9	37	0.0365	NoB
27	1	Zinc	41	9	9	60	1380	NoAB
47	1	1,1-Dichloroethane	0.006	13	1			NoC
47	1	1,2-Dichloroethene	0.001	3	1		1.24	NoA
47	1	2-Methylnaphthalene	0.9	10	1			NoC
47	1	Acenaphthene	7.074	10	4		117	NoA
47	1	Acetone	0.16	11	6			NoC
47	1	Alpha activity	193	4	4			NoC
47	1	Aluminum	15500	23	23	12000	4410	Yes
47	1	Americium-241	0.77	4	4		1.5	NoA
47	1	Anthracene	84.314	10	7		747	NoA
47	1	Antimony	0.9	22	12	0.21	0.552	Yes
47	1	Arsenic	45.2	24	24	7.9	0.238	Yes
47	1	Barium	168	23	23	170	140	NoB
47	1	Benzo(ghi)perylene	8.838	20	7			NoC
47	1	Beryllium	0.7	23	23	0.69	0.00567	Yes
47	1	Beta activity	267	4	4			NoC
47	1	Bis(2-ethylhexyl)phthalate	7	20	5			NoC
47	1	Butyl benzyl phthalate	0.13	10	1			NoC
47	1	Cadmium	12.8	23	16	0.21	0.811	Yes
47	1	Calcium	110000	23	22	6100		NoE
47	1	Cesium-137	0.117	4	4	0.28	0.0267	NoB
47	1	Chromium	53.9	24	23	43	15.6	Yes
47	1	cis-1,2-Dichloroethene	0.082	10	2		1.05	NoA
47	1	Cobalt	16.9	23	21	13	1.37	Yes
47	1	Copper	27.9	24	23	25	184	NoA
47	1	Dibenzofuran	3.6	10	4			NoC
47	1	Di-n-butyl phthalate	3.6	20	3			NoC
47	1	Fluoranthene	96.773	20	12		109	NoA
47	1	Fluorene	4.539	10	4		91.5	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
47	1	Iron	29500	24	24	28000	3220	Yes
47	1	Lead	48.86	24	24	23	400	NoA
47	1	Magnesium	4170	23	23	2100		NoE
47	1	Manganese	1690	24	24	820	419	Yes
47	1	Mercury	0.0676	24	15	0.13	0.213	NoAB
47	1	Methylene chloride	0.11	13	12			NoC
47	1	Molybdenum	1.7	7	3		23	NoA
47	1	Naphthalene	1.9	10	4		1.15	Yes
47	1	Neptunium-237	0.146	4	4		0.0839	Yes
47	1	Nickel	82.5	24	23	22	10.4	Yes
47	1	PCB, Total	0.96	11	4		0.0648	Yes
47	1	Phenanthrene	77.492	20	11			NoC
47	1	Plutonium-238	0.084	4	4		3.21	NoA
47	1	Plutonium-239/240	4.19	4	4		3.15	Yes
47	1	Pyrene	110.585	20	11		81.2	Yes
47	1	Selenium	1.6	24	10	0.7	23	NoA
47	1	Silver	0.79	24	10	2.7	2.61	NoAB
47	1	Sodium	681	23	21	340		NoE
47	1	Technetium-99	69.7	4	4	2.8	101	NoA
47	1	Tetrachloroethene	0.002	13	1		0.113	NoA
47	1	Thallium	0.35	23	6	0.34	0.368	NoA
47	1	Thorium-228	1.11	4	4	1.6		NoB
47	1	Thorium-230	54.5	4	4	1.4	4.1	Yes
47	1	Thorium-232	1.16	4	4	1.5		NoB
47	1	Toluene	0.0056	13	3			NoC
47	1	Total PAH	54.072342	20	11		0.0197	Yes
47	1	trans-1,2-Dichloroethene	2.5	10	1		2.43	Yes
47	1	Trichloroethene	1.4	13	3		0.0234	Yes
47	1	Uranium	41.7	7	7	4.6	13.8	Yes
47	1	Uranium-234	8.1	4	4	1.2	5.47	Yes
47	1	Uranium-235	0.5	4	4	0.06	0.122	Yes
47	1	Uranium-238	8.21	4	4	1.2	0.517	Yes
47	1	Vanadium	36.1	23	23	37	0.0365	NoB
47	1	Zinc	171.54	24	24	60	1380	NoA
74	1	Acenaphthene	0.35	1	1		117	NoA
74	1	Acetone	14	4	4			NoC
74	1	Anthracene	0.51	1	1		747	NoA
74	1	Bis(2-ethylhexyl)phthalate	0.54	2	1			NoC
74	1	Cesium-137	0.48	1	1	0.28	0.0267	Yes
74	1	Dibenzofuran	0.28	1	1			NoC
74	1	Di-n-butyl phthalate	1.6	2	1			NoC
74	1	Fluoranthene	1.7	1	1		109	NoA
74	1	Fluorene	0.4	1	1		91.5	NoA
74	1	Naphthalene	0.52	1	1		1.15	NoA
74	1	Neptunium-237	0.00881	1	1		0.0839	NoA
74	1	PCB, Total	2.9748	6	6		0.0648	Yes
74	1	Phenanthrene	1.2	1	1			NoC
74	1	Plutonium-239/240	0.0438	1	1		3.15	NoA
74	1	Pyrene	1.7	1	1		81.2	NoA
74	1	Technetium-99	4.35	1	1	2.8	101	NoA
74	1	Total PAH	3.1616	1	1		0.0197	Yes
74	1	Uranium-234	7.55	1	1	1.2	5.47	Yes
74	1	Uranium-238	38.5	1	1	1.2	0.517	Yes
75	1	Alpha activity	17.2	2	2			NoC
75	1	Aluminum	1660	1	1	12000	4410	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
75	1	Americium-241	0.004	2	2		1.5	NoA
75	1	Antimony	0.14	1	1	0.21	0.552	NoAB
75	1	Arsenic	16.82	4	3	7.9	0.238	Yes
75	1	Barium	24	1	1	170	140	NoAB
75	1	Benzo(ghi)perylene	0.1	1	1			NoC
75	1	Beryllium	0.2	1	1	0.69	0.00567	NoB
75	1	Beta activity	19.9	2	2			NoC
75	1	Cadmium	1.1	1	1	0.21	0.811	Yes
75	1	Calcium	397000	1	1	6100		NoE
75	1	Cesium-137	0.149	2	2	0.28	0.0267	NoB
75	1	Chromium	71.72	4	4	43	15.6	Yes
75	1	Cobalt	2.2	1	1	13	1.37	NoB
75	1	Copper	315	1	1	25	184	Yes
75	1	Fluoranthene	0.4	1	1		109	NoA
75	1	Iron	44184.87	4	4	28000	3220	Yes
75	1	Lead	60.8	4	4	23	400	NoA
75	1	Magnesium	2570	1	1	2100		NoE
75	1	Manganese	417.46	4	4	820	419	NoAB
75	1	Molybdenum	0.35	1	1		23	NoA
75	1	Neptunium-237	0.004	2	2		0.0839	NoA
75	1	Nickel	88.72	1	1	22	10.4	Yes
75	1	PCB, Total	0.23	9	4		0.0648	Yes
75	1	Phenanthrene	0.25	1	1			NoC
75	1	Plutonium-238	0.011	2	2		3.21	NoA
75	1	Plutonium-239/240	0.0059	2	2		3.15	NoA
75	1	Pyrene	0.34	1	1		81.2	NoA
75	1	Selenium	0.41	1	1	0.7	23	NoAB
75	1	Silver	0.11	1	1	2.7	2.61	NoAB
75	1	Sodium	172	1	1	340		NoBE
75	1	Technetium-99	0.15	2	2	2.8	101	NoAB
75	1	Thorium-228	0.223	2	2	1.6		NoB
75	1	Thorium-230	0.404	2	2	1.4	4.1	NoAB
75	1	Thorium-232	0.201	2	2	1.5		NoB
75	1	Total PAH	0.22137	1	1		0.0197	Yes
75	1	Uranium	3.09	2	2	4.6	13.8	NoAB
75	1	Uranium-234	0.448	2	2	1.2	5.47	NoAB
75	1	Uranium-235	0.025	2	2	0.06	0.122	NoAB
75	1	Uranium-238	1.04	2	2	1.2	0.517	NoB
75	1	Vanadium	8.2	1	1	37	0.0365	NoB
75	1	Zinc	242.4	4	4	60	1380	NoA
76	1	Acenaphthene	0.11	1	1		117	NoA
76	1	Acenaphthylene	0.29	1	1			NoC
76	1	Alpha activity	28.5	2	2			NoC
76	1	Aluminum	10400	2	2	12000	4410	NoB
76	1	Americium-241	0.011	2	2		1.5	NoA
76	1	Anthracene	0.62	1	1		747	NoA
76	1	Arsenic	13.1	3	3	7.9	0.238	Yes
76	1	Barium	269	2	2	170	140	Yes
76	1	Benzo(ghi)perylene	0.54	2	2			NoC
76	1	Beryllium	0.47	2	2	0.69	0.00567	NoB
76	1	Beta activity	39	2	2			NoC
76	1	Cadmium	0.26	2	2	0.21	0.811	NoA
76	1	Calcium	138000	2	2	6100		NoE
76	1	Cesium-137	0.018	2	2	0.28	0.0267	NoAB
76	1	Chromium	20.8	3	2	43	15.6	NoB
76	1	Cobalt	6.1	2	2	13	1.37	NoB
76	1	Copper	13.9	3	2	25	184	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
76	1	Dibenzofuran	0.077	1	1			NoC
76	1	Fluoranthene	2.3	2	2		109	NoA
76	1	Fluorene	0.12	1	1		91.5	NoA
76	1	Iron	22800	3	3	28000	3220	NoB
76	1	Lead	30.2	3	3	23	400	NoA
76	1	Magnesium	4010	2	2	2100		NoE
76	1	Manganese	457	3	3	820	419	NoB
76	1	Mercury	7.45	3	3	0.13	0.213	Yes
76	1	Neptunium-237	0.0029	2	2		0.0839	NoA
76	1	Nickel	12	3	2	22	10.4	NoB
76	1	PCB, Total	0.26	3	2		0.0648	Yes
76	1	Phenanthrene	0.81	1	1			NoC
76	1	Plutonium-238	0.008	2	2		3.21	NoA
76	1	Plutonium-239/240	0.015	2	2		3.15	NoA
76	1	Pyrene	1.8	2	2		81.2	NoA
76	1	Selenium	1.5	3	2	0.7	23	NoA
76	1	Silver	0.063	3	2	2.7	2.61	NoAB
76	1	Sodium	92.3	2	2	340		NoBE
76	1	Technetium-99	0.42	2	2	2.8	101	NoAB
76	1	Thallium	0.27	2	2	0.34	0.368	NoAB
76	1	Thorium-228	1.18	2	2	1.6		NoB
76	1	Thorium-230	1.27	2	2	1.4	4.1	NoAB
76	1	Thorium-232	1.19	2	2	1.5		NoB
76	1	Total PAH	1.7582	2	2		0.0197	Yes
76	1	Uranium	4.9	3	2	4.6	13.8	NoA
76	1	Uranium-234	1.22	2	2	1.2	5.47	NoA
76	1	Uranium-235	0.091	2	2	0.06	0.122	NoA
76	1	Uranium-238	1.45	2	2	1.2	0.517	Yes
76	1	Vanadium	36.9	2	2	37	0.0365	NoB
76	1	Zinc	68.27	3	3	60	1380	NoA
78	1	1,1,1-Trichloroethane	0.001	2	1			NoC
78	1	2,4-Dimethylphenol	0.22	2	2			NoC
78	1	2-Methylnaphthalene	10	2	2			NoC
78	1	2-Methylphenol	0.099	2	1			NoC
78	1	Acenaphthene	17	2	2		117	NoA
78	1	Acenaphthylene	3.6	2	2			NoC
78	1	Acetone	0.1	5	1			NoC
78	1	Aluminum	14900	7	7	12000	4410	Yes
78	1	Americium-241	0.0337	4	4		1.5	NoA
78	1	Anthracene	23	2	2		747	NoA
78	1	Arsenic	4.21	11	7	7.9	0.238	NoB
78	1	Barium	177	11	11	170	140	Yes
78	1	Benzo(ghi)perylene	13	2	2			NoC
78	1	Beryllium	0.66	8	7	0.69	0.00567	NoB
78	1	Cadmium	2.36	11	5	0.21	0.811	Yes
78	1	Calcium	200000	7	7	6100		NoE
78	1	Cesium-137	0.027	4	4	0.28	0.0267	NoB
78	1	Chromium	37.5	11	11	43	15.6	NoB
78	1	Cobalt	16.1	7	7	13	1.37	Yes
78	1	Cobalt-60	0.00591	1	1		0.00547	Yes
78	1	Copper	21	8	8	25	184	NoAB
78	1	Dibenzofuran	9.1	2	2			NoC
78	1	Di-n-butyl phthalate	0.062	5	1			NoC
78	1	Fluoranthene	60	2	2		109	NoA
78	1	Fluorene	17	2	2		91.5	NoA
78	1	Iron	19100	8	8	28000	3220	NoB
78	1	Lead	52	11	7	23	400	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
78	1	Magnesium	5040	7	7	2100		NoE
78	1	Manganese	1470	7	7	820	419	Yes
78	1	Mercury	0.0095	5	1	0.13	0.213	NoAB
78	1	Methylene chloride	0.09	5	2			NoC
78	1	Naphthalene	16	2	2		1.15	Yes
78	1	Neptunium-237	0.0136	4	4		0.0839	NoA
78	1	Nickel	21.5	8	8	22	10.4	NoB
78	1	PCB, Total	12	6	3		0.0648	Yes
78	1	Phenanthrene	63	2	2			NoC
78	1	Plutonium-238	0.016	4	4		3.21	NoA
78	1	Plutonium-239/240	0.00129	4	4		3.15	NoA
78	1	Pyrene	41	2	2		81.2	NoA
78	1	Sodium	442	7	7	340		NoE
78	1	Technetium-99	1.74	1	1	2.8	101	NoAB
78	1	Tetrachloroethene	0.003	2	1		0.113	NoA
78	1	Thorium-228	0.42	4	4	1.6		NoB
78	1	Thorium-230	0.371	4	4	1.4	4.1	NoAB
78	1	Thorium-232	0.424	4	4	1.5		NoB
78	1	Toluene	0.003	7	3			NoC
78	1	Total PAH	39.119	2	2		0.0197	Yes
78	1	Trichloroethene	0.013	7	3		0.0234	NoA
78	1	Uranium-234	0.978	3	3	1.2	5.47	NoAB
78	1	Uranium-235	0.264	1	1	0.06	0.122	Yes
78	1	Uranium-238	5.29	4	4	1.2	0.517	Yes
78	1	Vanadium	31.1	7	7	37	0.0365	NoB
78	1	Zinc	387	8	8	60	1380	NoA
80	1	Acetone	0.11	2	1			NoC
80	1	Alpha activity	30.3	1	1			NoC
80	1	Aluminum	9320	1	1	12000	4410	NoB
80	1	Americium-241	6.4	2	2		1.5	Yes
80	1	Antimony	0.91	1	1	0.21	0.552	Yes
80	1	Arsenic	10.07	2	2	7.9	0.238	Yes
80	1	Barium	109	1	1	170	140	NoAB
80	1	Benzo(ghi)perylene	0.087	1	1			NoC
80	1	Beryllium	0.78	2	2	0.69	0.00567	Yes
80	1	Beta activity	27.8	1	1			NoC
80	1	Cadmium	0.18	1	1	0.21	0.811	NoAB
80	1	Calcium	49100	1	1	6100		NoE
80	1	Cesium-137	0.271	2	2	0.28	0.0267	NoB
80	1	Chromium	165	3	3	43	15.6	Yes
80	1	Cobalt	7.7	1	1	13	1.37	NoB
80	1	Cobalt-60	-0.00104	1	1		0.00547	NoA
80	1	Copper	24.13	2	2	25	184	NoAB
80	1	Fluoranthene	0.2	1	1		109	NoA
80	1	Iron	17317.83	2	2	28000	3220	NoB
80	1	Lead	18.9	2	2	23	400	NoAB
80	1	Magnesium	3450	1	1	2100		NoE
80	1	Manganese	376	2	2	820	419	NoAB
80	1	Mercury	0.45	2	2	0.13	0.213	Yes
80	1	Molybdenum	0.77	1	1		23	NoA
80	1	Neptunium-237	0.505	2	2		0.0839	Yes
80	1	Nickel	12.4	1	1	22	10.4	NoB
80	1	PCB, Total	73	92	39		0.0648	Yes
80	1	Phenanthrene	0.11	1	1			NoC
80	1	Plutonium-238	0.131	2	2		3.21	NoA
80	1	Plutonium-239/240	0.438	2	2		3.15	NoA
80	1	Pyrene	0.17	1	1		81.2	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
80	1	Selenium	1.1	1	1	0.7	23	NoA
80	1	Silver	0.045	1	1	2.7	2.61	NoAB
80	1	Sodium	47.1	1	1	340		NoBE
80	1	Technetium-99	29.5	2	2	2.8	101	NoA
80	1	Thallium	0.16	1	1	0.34	0.368	NoAB
80	1	Thorium-228	0.97	2	2	1.6		NoB
80	1	Thorium-230	4.4	2	2	1.4	4.1	Yes
80	1	Thorium-232	0.87	2	2	1.5		NoB
80	1	Total PAH	0.14165	1	1		0.0197	Yes
80	1	Uranium	5724	2	2	4.6	13.8	Yes
80	1	Uranium-234	229	2	2	1.2	5.47	Yes
80	1	Uranium-235	30	4	4	0.06	0.122	Yes
80	1	Uranium-238	1921	2	2	1.2	0.517	Yes
80	1	Vanadium	25.9	1	1	37	0.0365	NoB
80	1	Zinc	61.65	2	2	60	1380	NoA
81	1	2-Methylnaphthalene	0.082	4	1			NoC
81	1	Acenaphthene	0.28	4	1		117	NoA
81	1	Acetone	0.17	7	1			NoC
81	1	Alpha activity	45.3	3	3			NoC
81	1	Aluminum	13000	10	10	12000	4410	Yes
81	1	Americium-241	0.011	3	3		1.5	NoA
81	1	Anthracene	0.36	4	1		747	NoA
81	1	Antimony	0.41	10	7	0.21	0.552	NoA
81	1	Arsenic	13.71	55	41	7.9	0.238	Yes
81	1	Barium	157	10	10	170	140	NoB
81	1	Benzo(ghi)perylene	0.36	4	1			NoC
81	1	Beryllium	1	10	10	0.69	0.00567	Yes
81	1	Beta activity	37.7	3	3			NoC
81	1	Bis(2-ethylhexyl)phthalate	0.45	4	1			NoC
81	1	Cadmium	0.23	7	6	0.21	0.811	NoA
81	1	Calcium	76200	10	10	6100		NoE
81	1	Cesium-137	0.088	3	3	0.28	0.0267	NoB
81	1	Chromium	108.06	55	26	43	15.6	Yes
81	1	Cobalt	48.3	10	10	13	1.37	Yes
81	1	Copper	27.82	55	16	25	184	NoA
81	1	Dibenzofuran	0.14	4	1			NoC
81	1	Fluoranthene	1.5	4	1		109	NoA
81	1	Fluorene	0.22	4	1		91.5	NoA
81	1	Iron	25900	55	55	28000	3220	NoB
81	1	Lead	39.4	55	54	23	400	NoA
81	1	Magnesium	2470	10	9	2100		NoE
81	1	Manganese	3650	55	54	820	419	Yes
81	1	Mercury	8.33	55	9	0.13	0.213	Yes
81	1	Molybdenum	2.2	52	7		23	NoA
81	1	Naphthalene	0.39	4	1		1.15	NoA
81	1	Neptunium-237	0	3	3		0.0839	NoA
81	1	Nickel	114.22	55	15	22	10.4	Yes
81	1	PCB, Total	370	79	39		0.0648	Yes
81	1	Phenanthrene	1.4	4	1			NoC
81	1	Plutonium-238	0.018	3	3		3.21	NoA
81	1	Plutonium-239/240	0.0086	3	3		3.15	NoA
81	1	Pyrene	1.2	4	1		81.2	NoA
81	1	Selenium	1.4	55	7	0.7	23	NoA
81	1	Silver	2.7	55	10	2.7	2.61	Yes
81	1	Sodium	108	10	9	340		NoBE
81	1	Technetium-99	0.54	3	3	2.8	101	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
81	1	Thallium	0.42	10	7	0.34	0.368	Yes
81	1	Thorium-228	1.22	3	3	1.6		NoB
81	1	Thorium-230	3.1	3	3	1.4	4.1	NoA
81	1	Thorium-232	1.32	3	3	1.5		NoB
81	1	Total PAH	0.77873	4	1		0.0197	Yes
81	1	Uranium	6500	71	29	4.6	13.8	Yes
81	1	Uranium-234	2.5	3	3	1.2	5.47	NoA
81	1	Uranium-235	0.112	3	3	0.06	0.122	NoA
81	1	Uranium-238	2.67	3	3	1.2	0.517	Yes
81	1	Vanadium	32.3	10	9	37	0.0365	NoB
81	1	Zinc	131.88	55	54	60	1380	NoA
99	1	Aluminum	15000	13	13	12000	4410	Yes
99	1	Americium-241	-0.0138	2	2		1.5	NoA
99	1	Antimony	0.53	11	5	0.21	0.552	NoA
99	1	Arsenic	12.4	62	34	7.9	0.238	Yes
99	1	Barium	192	13	13	170	140	Yes
99	1	Beryllium	1	11	9	0.69	0.00567	Yes
99	1	Cadmium	0.2	11	5	0.21	0.811	NoAB
99	1	Calcium	96900	11	11	6100		NoE
99	1	Cesium-137	0.202	2	2	0.28	0.0267	NoB
99	1	Chromium	116.8	64	34	43	15.6	Yes
99	1	Cobalt	8.6	13	13	13	1.37	NoB
99	1	Cobalt-60	0.0212	2	2		0.00547	Yes
99	1	Copper	28.64	64	14	25	184	NoA
99	1	Iron	23200	64	64	28000	3220	NoB
99	1	Lead	22.01	64	55	23	400	NoAB
99	1	Magnesium	2370	13	13	2100		NoE
99	1	Manganese	1230	64	64	820	419	Yes
99	1	Mercury	9.53	64	6	0.13	0.213	Yes
99	1	Molybdenum	16	58	7		23	NoA
99	1	Neptunium-237	0.00503	2	2		0.0839	NoA
99	1	Nickel	90.47	64	22	22	10.4	Yes
99	1	Plutonium-238	-0.00818	2	2		3.21	NoA
99	1	Plutonium-239/240	0.0103	2	2		3.15	NoA
99	1	Selenium	1.3	44	5	0.7	23	NoA
99	1	Silver	10.3	64	7	2.7	2.61	Yes
99	1	Sodium	241	11	7	340		NoBE
99	1	Technetium-99	3.73	3	3	2.8	101	NoA
99	1	Thallium	0.25	11	5	0.34	0.368	NoAB
99	1	Thorium-228	0.333	2	2	1.6		NoB
99	1	Thorium-230	0.302	2	2	1.4	4.1	NoAB
99	1	Thorium-232	0.3	2	2	1.5		NoB
99	1	Uranium	16.08	58	11	4.6	13.8	Yes
99	1	Uranium-234	0.506	2	2	1.2	5.47	NoAB
99	1	Uranium-235	0.0425	2	2	0.06	0.122	NoAB
99	1	Uranium-238	1.3	2	2	1.2	0.517	Yes
99	1	Vanadium	34.9	13	13	37	0.0365	NoB
99	1	Zinc	486.49	64	64	60	1380	NoA
99	2	Arsenic	7.04	4	2	7.9	0.238	NoB
99	2	Chromium	45.74	4	1	43	15.6	Yes
99	2	Iron	11273.22	4	4	28000	3220	NoB
99	2	Lead	10.43	4	3	23	400	NoAB
99	2	Manganese	335.28	4	3	820	419	NoAB
99	2	Zinc	41.96	4	4	60	1380	NoAB
138	1	Alpha activity	20.1	2	2			NoC
138	1	Aluminum	13000	7	7	12000	4410	Yes
138	1	Americium-241	0.0021	2	2		1.5	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
138	1	Antimony	7.34	20	8	0.21	0.552	Yes
138	1	Arsenic	15.45	93	43	7.9	0.238	Yes
138	1	Barium	529	19	19	170	140	Yes
138	1	Beryllium	0.86	7	7	0.69	0.00567	Yes
138	1	Beta activity	20.2	2	2			NoC
138	1	Cadmium	7.3	20	10	0.21	0.811	Yes
138	1	Calcium	207000	7	7	6100		NoE
138	1	Cesium-137	0.196	2	2	0.28	0.0267	NoB
138	1	Chromium	56.54	96	39	43	15.6	Yes
138	1	Cobalt	17.6	7	7	13	1.37	Yes
138	1	Copper	41.31	83	21	25	184	NoA
138	1	Fluoranthene	0.1	1	1		109	NoA
138	1	Iron	40820.47	83	83	28000	3220	Yes
138	1	Lead	280.5	96	95	23	400	NoA
138	1	Magnesium	3800	7	7	2100		NoE
138	1	Manganese	1230	83	82	820	419	Yes
138	1	Mercury	21.3	96	21	0.13	0.213	Yes
138	1	Molybdenum	1.1	83	7		23	NoA
138	1	Neptunium-237	0.01	2	2		0.0839	NoA
138	1	Nickel	101.69	96	25	22	10.4	Yes
138	1	PCB, Total	0.5	26	5		0.0648	Yes
138	1	Phenanthrene	0.059	1	1			NoC
138	1	Plutonium-238	0.0103	2	2		3.21	NoA
138	1	Plutonium-239/240	0.0077	2	2		3.15	NoA
138	1	Pyrene	0.096	1	1		81.2	NoA
138	1	Selenium	1.66	96	18	0.7	23	NoA
138	1	Silver	10.09	96	10	2.7	2.61	Yes
138	1	Sodium	350	7	7	340		NoE
138	1	Technetium-99	0.28	2	2	2.8	101	NoAB
138	1	Thallium	0.62	20	7	0.34	0.368	Yes
138	1	Thorium-228	0.641	2	2	1.6		NoB
138	1	Thorium-230	0.78	2	2	1.4	4.1	NoAB
138	1	Thorium-232	0.613	2	2	1.5		NoB
138	1	Total PAH	0.097432	2	2		0.0197	Yes
138	1	Uranium	9.09	83	9	4.6	13.8	NoA
138	1	Uranium-234	0.83	2	2	1.2	5.47	NoAB
138	1	Uranium-235	0.04	2	2	0.06	0.122	NoAB
138	1	Uranium-238	0.84	2	2	1.2	0.517	NoB
138	1	Vanadium	42.8	7	7	37	0.0365	Yes
138	1	Zinc	130.81	83	83	60	1380	NoA
138	2	Alpha activity	25.6	3	3			NoC
138	2	Aluminum	10700	6	6	12000	4410	NoB
138	2	Americium-241	0.015	3	3		1.5	NoA
138	2	Antimony	0.36	6	6	0.21	0.552	NoA
138	2	Arsenic	11.82	53	12	7.9	0.238	Yes
138	2	Barium	145	6	6	170	140	NoB
138	2	Beryllium	0.57	6	6	0.69	0.00567	NoB
138	2	Beta activity	22.4	3	3			NoC
138	2	Bis(2-ethylhexyl)phthalate	0.093	1	1			NoC
138	2	Cadmium	0.93	6	5	0.21	0.811	Yes
138	2	Calcium	173000	6	6	6100		NoE
138	2	Cesium-137	0.105	3	3	0.28	0.0267	NoB
138	2	Chromium	64.83	53	18	43	15.6	Yes
138	2	Cobalt	8	6	6	13	1.37	NoB
138	2	Copper	39.32	53	15	25	184	NoA
138	2	Iron	20300	53	53	28000	3220	NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
138	2	Lead	56.8	53	53	23	400	NoA
138	2	Magnesium	3980	6	6	2100		NoE
138	2	Manganese	738.42	53	53	820	419	NoB
138	2	Mercury	8.3	53	7	0.13	0.213	Yes
138	2	Molybdenum	0.74	53	6		23	NoA
138	2	Neptunium-237	0.007	3	3		0.0839	NoA
138	2	Nickel	113.2	53	17	22	10.4	Yes
138	2	PCB, Total	0.092	15	1		0.0648	Yes
138	2	Plutonium-238	0.01	3	3		3.21	NoA
138	2	Plutonium-239/240	0.0085	3	3		3.15	NoA
138	2	Selenium	4.72	53	7	0.7	23	NoA
138	2	Silver	16.51	53	12	2.7	2.61	Yes
138	2	Sodium	372	6	6	340		NoE
138	2	Technetium-99	0.29	3	3	2.8	101	NoAB
138	2	Thallium	0.41	6	6	0.34	0.368	Yes
138	2	Thorium-228	0.86	3	3	1.6		NoB
138	2	Thorium-230	0.87	3	3	1.4	4.1	NoAB
138	2	Thorium-232	0.87	3	3	1.5		NoB
138	2	Total PAH	0.0384	4	2		0.0197	Yes
138	2	Uranium	3.12	54	7	4.6	13.8	NoAB
138	2	Uranium-234	0.87	3	3	1.2	5.47	NoAB
138	2	Uranium-235	0.056	3	3	0.06	0.122	NoAB
138	2	Uranium-238	1.04	3	3	1.2	0.517	NoB
138	2	Vanadium	24.1	6	6	37	0.0365	NoB
138	2	Zinc	123	53	53	60	1380	NoA
153	1	Alpha activity	33.3	2	2			NoC
153	1	Aluminum	8680	2	2	12000	4410	NoB
153	1	Americium-241	0.007	2	2		1.5	NoA
153	1	Antimony	0.37	2	2	0.21	0.552	NoA
153	1	Arsenic	10.3	13	9	7.9	0.238	Yes
153	1	Barium	166	2	2	170	140	NoB
153	1	Beryllium	0.63	2	2	0.69	0.00567	NoB
153	1	Beta activity	32.6	2	2			NoC
153	1	Bis(2-ethylhexyl)phthalate	0.2	1	1			NoC
153	1	Cadmium	0.066	2	2	0.21	0.811	NoAB
153	1	Calcium	15500	2	2	6100		NoE
153	1	Cesium-137	0.085	2	2	0.28	0.0267	NoB
153	1	Chromium	65.92	13	8	43	15.6	Yes
153	1	Cobalt	8.1	2	2	13	1.37	NoB
153	1	Copper	23.13	13	3	25	184	NoAB
153	1	Fluoranthene	0.13	1	1		109	NoA
153	1	Iron	22000	13	13	28000	3220	NoB
153	1	Lead	12.66	13	12	23	400	NoAB
153	1	Magnesium	2810	2	2	2100		NoE
153	1	Manganese	1018.13	13	13	820	419	Yes
153	1	Mercury	0.0199	1	1	0.13	0.213	NoAB
153	1	Molybdenum	1.2	13	2		23	NoA
153	1	Neptunium-237	-0.0019	2	2		0.0839	NoA
153	1	Nickel	99.22	13	5	22	10.4	Yes
153	1	PCB, Total	0.6	2	1		0.0648	Yes
153	1	Phenanthrene	0.055	1	1			NoC
153	1	Plutonium-238	0.033	2	2		3.21	NoA
153	1	Plutonium-239/240	0.007	2	2		3.15	NoA
153	1	Pyrene	0.091	1	1		81.2	NoA
153	1	Selenium	1.7	13	2	0.7	23	NoA
153	1	Silver	13.17	13	4	2.7	2.61	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
153	1	Sodium	102	2	2	340		NoBE
153	1	Technetium-99	0.32	2	2	2.8	101	NoAB
153	1	Thallium	0.33	2	2	0.34	0.368	NoAB
153	1	Thorium-228	0.93	2	2	1.6		NoB
153	1	Thorium-230	1.07	2	2	1.4	4.1	NoAB
153	1	Thorium-232	1.06	2	2	1.5		NoB
153	1	Total PAH	0.086913	1	1		0.0197	Yes
153	1	Uranium	3.42	13	2	4.6	13.8	NoAB
153	1	Uranium-234	1.2	2	2	1.2	5.47	NoA
153	1	Uranium-235	0.076	2	2	0.06	0.122	NoA
153	1	Uranium-238	1.14	2	2	1.2	0.517	NoB
153	1	Vanadium	29.2	2	2	37	0.0365	NoB
153	1	Zinc	59.8	13	13	60	1380	NoAB
154	1	2-Methylnaphthalene	0.062	1	1			NoC
154	1	Acenaphthene	0.15	1	1		117	NoA
154	1	Alpha activity	28.6	1	1			NoC
154	1	Aluminum	5530	2	2	12000	4410	NoB
154	1	Americium-241	0.004	1	1		1.5	NoA
154	1	Anthracene	0.14	1	1		747	NoA
154	1	Antimony	0.43	2	2	0.21	0.552	NoA
154	1	Arsenic	15.17	6	4	7.9	0.238	Yes
154	1	Barium	58.4	2	2	170	140	NoAB
154	1	Benzo(ghi)perylene	0.2	1	1			NoC
154	1	Beryllium	0.44	2	2	0.69	0.00567	NoB
154	1	Beta activity	29.5	1	1			NoC
154	1	Cadmium	0.19	2	2	0.21	0.811	NoAB
154	1	Calcium	218000	2	2	6100		NoE
154	1	Cesium-137	0.104	1	1	0.28	0.0267	NoB
154	1	Chromium	72.1	10	7	43	15.6	Yes
154	1	Cobalt	5.7	2	2	13	1.37	NoB
154	1	Copper	9.4	6	2	25	184	NoAB
154	1	Dibenzofuran	0.1	1	1			NoC
154	1	Fluoranthene	1.7	1	1		109	NoA
154	1	Fluorene	0.064	1	1		91.5	NoA
154	1	Iron	17600	10	10	28000	3220	NoB
154	1	Lead	56.17	10	9	23	400	NoA
154	1	Magnesium	4140	2	2	2100		NoE
154	1	Manganese	1016.96	10	10	820	419	Yes
154	1	Mercury	0.0466	6	2	0.13	0.213	NoAB
154	1	Molybdenum	0.56	6	2		23	NoA
154	1	Naphthalene	0.043	1	1		1.15	NoA
154	1	Neptunium-237	0.035	1	1		0.0839	NoA
154	1	Nickel	98.87	6	4	22	10.4	Yes
154	1	PCB, Total	3.2	6	4		0.0648	Yes
154	1	Phenanthrene	1	1	1			NoC
154	1	Plutonium-238	0.02	1	1		3.21	NoA
154	1	Plutonium-239/240	0.01	1	1		3.15	NoA
154	1	Pyrene	1	1	1		81.2	NoA
154	1	Selenium	4.71	6	3	0.7	23	NoA
154	1	Silver	0.046	6	2	2.7	2.61	NoAB
154	1	Sodium	112	2	2	340		NoBE
154	1	Technetium-99	0.93	1	1	2.8	101	NoAB
154	1	Thallium	0.24	2	2	0.34	0.368	NoAB
154	1	Thorium-228	0.25	1	1	1.6		NoB
154	1	Thorium-230	0.46	1	1	1.4	4.1	NoAB
154	1	Thorium-232	0.209	1	1	1.5		NoB
154	1	Total PAH	1.04045	1	1		0.0197	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
154	1	Uranium	38.18	6	4	4.6	13.8	Yes
154	1	Uranium-234	1.12	1	1	1.2	5.47	NoAB
154	1	Uranium-235	0.091	1	1	0.06	0.122	NoA
154	1	Uranium-238	3.06	1	1	1.2	0.517	Yes
154	1	Vanadium	27	2	2	37	0.0365	NoB
154	1	Zinc	88.19	10	10	60	1380	NoA
154	2	PCB, Total	0.4	1	1		0.0648	Yes
155	1	Alpha activity	6	1	1			NoC
155	1	Aluminum	1460	1	1	12000	4410	NoAB
155	1	Americium-241	0.0033	1	1		1.5	NoA
155	1	Antimony	5.06	2	2	0.21	0.552	Yes
155	1	Arsenic	9.01	11	6	7.9	0.238	Yes
155	1	Barium	54.6	4	3	170	140	NoAB
155	1	Beryllium	0.15	1	1	0.69	0.00567	NoB
155	1	Beta activity	15.2	1	1			NoC
155	1	Cadmium	0.42	4	1	0.21	0.811	NoA
155	1	Calcium	413000	1	1	6100		NoE
155	1	Cesium-137	0.0006	1	1	0.28	0.0267	NoAB
155	1	Chromium	34.7	11	3	43	15.6	NoB
155	1	Cobalt	2.3	1	1	13	1.37	NoB
155	1	Copper	3	8	1	25	184	NoAB
155	1	Iron	14727.5	8	8	28000	3220	NoB
155	1	Lead	33.42	11	7	23	400	NoA
155	1	Magnesium	8730	1	1	2100		NoE
155	1	Manganese	294.49	8	8	820	419	NoAB
155	1	Molybdenum	0.53	8	1		23	NoA
155	1	Neptunium-237	0.103	1	1		0.0839	Yes
155	1	Nickel	92.05	11	4	22	10.4	Yes
155	1	PCB, Total	17	11	2		0.0648	Yes
155	1	Plutonium-238	0.0141	1	1		3.21	NoA
155	1	Plutonium-239/240	0.0064	1	1		3.15	NoA
155	1	Selenium	0.5	11	2	0.7	23	NoAB
155	1	Silver	15.48	11	2	2.7	2.61	Yes
155	1	Sodium	134	1	1	340		NoBE
155	1	Technetium-99	17	2	2	2.8	101	NoA
155	1	Thorium-228	0.57	1	1	1.6		NoB
155	1	Thorium-230	0.45	1	1	1.4	4.1	NoAB
155	1	Thorium-232	0.13	1	1	1.5		NoB
155	1	Total PAH	0.0098	1	1		0.0197	NoA
155	1	Uranium	2.3	8	1	4.6	13.8	NoAB
155	1	Uranium-234	0.264	1	1	1.2	5.47	NoAB
155	1	Uranium-235	0.025	1	1	0.06	0.122	NoAB
155	1	Uranium-238	0.368	1	1	1.2	0.517	NoAB
155	1	Vanadium	4.8	1	1	37	0.0365	NoB
155	1	Zinc	71.86	8	8	60	1380	NoA
156	1	Alpha activity	21.4	2	2			NoC
156	1	Aluminum	8050	3	3	12000	4410	NoB
156	1	Americium-241	0.003	2	2		1.5	NoA
156	1	Antimony	0.43	3	3	0.21	0.552	NoA
156	1	Arsenic	11.1	24	15	7.9	0.238	Yes
156	1	Barium	104	3	3	170	140	NoAB
156	1	Benzo(ghi)perylene	0.039	1	1			NoC
156	1	Beryllium	1	3	3	0.69	0.00567	Yes
156	1	Beta activity	32.3	2	2			NoC
156	1	Bis(2-ethylhexyl)phthalate	0.19	3	2			NoC
156	1	Cadmium	0.12	3	3	0.21	0.811	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
156	1	Calcium	7500	3	3	6100		NoE
156	1	Cesium-137	0.041	2	2	0.28	0.0267	NoB
156	1	Chromium	63.08	24	14	43	15.6	Yes
156	1	Cobalt	17.2	3	3	13	1.37	Yes
156	1	Copper	32.75	24	6	25	184	NoA
156	1	Fluoranthene	0.12	3	3		109	NoA
156	1	Iron	27100	24	24	28000	3220	NoB
156	1	Lead	41.2	24	23	23	400	NoA
156	1	Magnesium	1550	3	3	2100		NoBE
156	1	Manganese	2832.92	24	24	820	419	Yes
156	1	Mercury	9.87	24	4	0.13	0.213	Yes
156	1	Molybdenum	0.74	24	3		23	NoA
156	1	Neptunium-237	0.0028	2	2		0.0839	NoA
156	1	Nickel	61.61	24	4	22	10.4	Yes
156	1	PCB, Total	0.3	11	1		0.0648	Yes
156	1	Phenanthrene	0.042	1	1			NoC
156	1	Plutonium-238	0.021	2	2		3.21	NoA
156	1	Plutonium-239/240	0.013	2	2		3.15	NoA
156	1	Pyrene	0.099	3	2		81.2	NoA
156	1	Selenium	1.5	24	3	0.7	23	NoA
156	1	Silver	11.92	24	3	2.7	2.61	Yes
156	1	Sodium	4320	3	3	340		NoE
156	1	Technetium-99	1.94	2	2	2.8	101	NoAB
156	1	Thallium	0.25	3	3	0.34	0.368	NoAB
156	1	Thorium-228	1.14	2	2	1.6		NoB
156	1	Thorium-230	1.03	2	2	1.4	4.1	NoAB
156	1	Thorium-232	1.03	2	2	1.5		NoB
156	1	Total PAH	0.082604	3	3		0.0197	Yes
156	1	Uranium	23.19	24	8	4.6	13.8	Yes
156	1	Uranium-234	2	2	2	1.2	5.47	NoA
156	1	Uranium-235	0.116	2	2	0.06	0.122	NoA
156	1	Uranium-238	2.19	2	2	1.2	0.517	Yes
156	1	Vanadium	32.8	3	3	37	0.0365	NoB
156	1	Zinc	64.42	24	24	60	1380	NoA
158	1	Acenaphthene	0.083	3	1		117	NoA
158	1	Alpha activity	44.7	5	5			NoC
158	1	Aluminum	9440	10	10	12000	4410	NoB
158	1	Americium-241	0.01	5	5		1.5	NoA
158	1	Anthracene	0.13	7	3		747	NoA
158	1	Antimony	0.7	10	7	0.21	0.552	Yes
158	1	Arsenic	12.83	63	32	7.9	0.238	Yes
158	1	Barium	292	10	10	170	140	Yes
158	1	Benzo(ghi)perylene	0.26	7	3			NoC
158	1	Beryllium	0.75	10	10	0.69	0.00567	Yes
158	1	Beta activity	46.6	5	5			NoC
158	1	Cadmium	0.39	10	9	0.21	0.811	NoA
158	1	Calcium	21100	10	10	6100		NoE
158	1	Cesium-137	0.078	5	5	0.28	0.0267	NoB
158	1	Chromium	71.8	63	28	43	15.6	Yes
158	1	Cobalt	36.5	10	10	13	1.37	Yes
158	1	Copper	43.42	63	17	25	184	NoA
158	1	Fluoranthene	1	7	3		109	NoA
158	1	Fluorene	0.057	3	1		91.5	NoA
158	1	Iron	27345.68	63	63	28000	3220	NoB
158	1	Lead	94.32	63	61	23	400	NoA
158	1	Magnesium	2260	10	10	2100		NoE
158	1	Manganese	1860	63	61	820	419	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
158	1	Mercury	10.46	63	10	0.13	0.213	Yes
158	1	Molybdenum	1.2	61	8		23	NoA
158	1	Neptunium-237	0.089	5	5		0.0839	Yes
158	1	Nickel	131.86	63	19	22	10.4	Yes
158	1	Phenanthrene	0.78	7	3			NoC
158	1	Plutonium-238	0.017	5	5		3.21	NoA
158	1	Plutonium-239/240	0.029	5	5		3.15	NoA
158	1	Pyrene	0.95	7	3		81.2	NoA
158	1	Selenium	4.15	63	10	0.7	23	NoA
158	1	Silver	14.7	63	10	2.7	2.61	Yes
158	1	Sodium	1420	10	10	340		NoE
158	1	Technetium-99	2.44	5	5	2.8	101	NoAB
158	1	Thallium	0.42	10	8	0.34	0.368	Yes
158	1	Thorium-228	1	5	5	1.6		NoB
158	1	Thorium-230	1.1	5	5	1.4	4.1	NoAB
158	1	Thorium-232	0.98	5	5	1.5		NoB
158	1	Total PAH	0.47836	7	3		0.0197	Yes
158	1	Uranium	30.24	61	20	4.6	13.8	Yes
158	1	Uranium-234	4	5	5	1.2	5.47	NoA
158	1	Uranium-235	0.259	5	5	0.06	0.122	Yes
158	1	Uranium-238	6.5	5	5	1.2	0.517	Yes
158	1	Vanadium	35.3	10	10	37	0.0365	NoB
158	1	Zinc	98.92	63	63	60	1380	NoA
160	1	Alpha activity	29.7	3	3			NoC
160	1	Aluminum	10100	2	2	12000	4410	NoB
160	1	Americium-241	0.002	3	3		1.5	NoA
160	1	Antimony	0.68	2	2	0.21	0.552	Yes
160	1	Arsenic	8.22	5	3	7.9	0.238	Yes
160	1	Barium	147	2	2	170	140	NoB
160	1	Benzo(ghi)perylene	0.056	2	2			NoC
160	1	Beryllium	0.44	2	2	0.69	0.00567	NoB
160	1	Beta activity	28.2	3	3			NoC
160	1	Cadmium	0.24	2	2	0.21	0.811	NoA
160	1	Calcium	140000	2	2	6100		NoE
160	1	Cesium-137	0.016	3	3	0.28	0.0267	NoAB
160	1	Chromium	46.25	5	4	43	15.6	Yes
160	1	Cobalt	4.9	2	2	13	1.37	NoB
160	1	Copper	11.2	5	2	25	184	NoAB
160	1	Fluoranthene	0.083	2	2		109	NoA
160	1	Iron	15352.45	5	5	28000	3220	NoB
160	1	Lead	18.71	5	5	23	400	NoAB
160	1	Magnesium	6220	2	2	2100		NoE
160	1	Manganese	377	5	5	820	419	NoAB
160	1	Molybdenum	0.77	5	2		23	NoA
160	1	Neptunium-237	0.0017	3	3		0.0839	NoA
160	1	Nickel	9.7	5	2	22	10.4	NoAB
160	1	Plutonium-238	0.023	3	3		3.21	NoA
160	1	Plutonium-239/240	0.01	3	3		3.15	NoA
160	1	Pyrene	0.09	2	2		81.2	NoA
160	1	Selenium	1.3	5	2	0.7	23	NoA
160	1	Silver	11.26	5	3	2.7	2.61	Yes
160	1	Sodium	73.5	2	2	340		NoBE
160	1	Technetium-99	17	4	4	2.8	101	NoA
160	1	Thallium	0.3	2	2	0.34	0.368	NoAB
160	1	Thorium-228	1.09	3	3	1.6		NoB
160	1	Thorium-230	1.17	3	3	1.4	4.1	NoAB
160	1	Thorium-232	1	3	3	1.5		NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
160	1	Total PAH	0.10218	2	2		0.0197	Yes
160	1	Uranium	2.93	6	3	4.6	13.8	NoAB
160	1	Uranium-234	0.79	3	3	1.2	5.47	NoAB
160	1	Uranium-235	0.082	3	3	0.06	0.122	NoA
160	1	Uranium-238	0.97	3	3	1.2	0.517	NoB
160	1	Vanadium	23.3	2	2	37	0.0365	NoB
160	1	Zinc	49.88	5	5	60	1380	NoAB
163	1	Alpha activity	32	5	5			NoC
163	1	Aluminum	11900	5	5	12000	4410	NoB
163	1	Americium-241	0.015	5	5		1.5	NoA
163	1	Anthracene	0.116	2	1		747	NoA
163	1	Antimony	0.34	5	3	0.21	0.552	NoA
163	1	Arsenic	11	30	13	7.9	0.238	Yes
163	1	Barium	129	5	5	170	140	NoAB
163	1	Benzo(ghi)perylene	0.166	2	1			NoC
163	1	Beryllium	0.67	5	4	0.69	0.00567	NoB
163	1	Beta activity	27.3	5	5			NoC
163	1	Bis(2-ethylhexyl)phthalate	0.17	2	1			NoC
163	1	Cadmium	0.1	5	3	0.21	0.811	NoAB
163	1	Calcium	15600	3	3	6100		NoE
163	1	Cesium-137	0.129	5	5	0.28	0.0267	NoB
163	1	Chromium	58.9	30	19	43	15.6	Yes
163	1	Cobalt	11.7	5	5	13	1.37	NoB
163	1	Copper	20.2	30	6	25	184	NoAB
163	1	Diethyl phthalate	0.4	2	1			NoC
163	1	Fluoranthene	0.31	2	2		109	NoA
163	1	Iron	22800	30	30	28000	3220	NoB
163	1	Lead	19.48	30	25	23	400	NoAB
163	1	Magnesium	17000	5	5	2100		NoE
163	1	Manganese	661.82	30	30	820	419	NoB
163	1	Mercury	7.53	30	3	0.13	0.213	Yes
163	1	Molybdenum	1.6	28	3		23	NoA
163	1	Neptunium-237	0.006	5	5		0.0839	NoA
163	1	Nickel	78.08	30	10	22	10.4	Yes
163	1	Plutonium-238	0.019	5	5		3.21	NoA
163	1	Plutonium-239/240	0.011	5	5		3.15	NoA
163	1	Pyrene	0.295	2	1		81.2	NoA
163	1	Selenium	2	30	3	0.7	23	NoA
163	1	Silver	10.53	30	4	2.7	2.61	Yes
163	1	Sodium	239	5	4	340		NoBE
163	1	Technetium-99	1.37	7	7	2.8	101	NoAB
163	1	Thallium	0.35	5	3	0.34	0.368	NoA
163	1	Thorium-228	1.05	5	5	1.6		NoB
163	1	Thorium-230	1.13	5	5	1.4	4.1	NoAB
163	1	Thorium-232	1.04	5	5	1.5		NoB
163	1	Total PAH	0.28507	6	3		0.0197	Yes
163	1	Uranium	2.75	29	5	4.6	13.8	NoAB
163	1	Uranium-234	0.82	5	5	1.2	5.47	NoAB
163	1	Uranium-235	0.061	5	5	0.06	0.122	NoA
163	1	Uranium-238	0.92	5	5	1.2	0.517	NoB
163	1	Vanadium	37.5	5	5	37	0.0365	Yes
163	1	Zinc	60.65	30	30	60	1380	NoA
165	1	1,1,2-Trichloroethane	0.006	11	1			NoC
165	1	2-Butanone	0.12	11	2			NoC
165	1	2-Hexanone	0.06	11	1			NoC
165	1	2-Methylnaphthalene	0.38	13	3			NoC

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
165	1	4-Methyl-2-pentanone	0.06	11	1			NoC
165	1	Acenaphthene	0.37	6	1		117	NoA
165	1	Acenaphthylene	0.36	6	1			NoC
165	1	Acetone	0.12	17	10			NoC
165	1	Alpha activity	106	1	1			NoC
165	1	Aluminum	13000	12	12	12000	4410	Yes
165	1	Americium-241	0.491	3	3		1.5	NoA
165	1	Anthracene	0.63	6	3		747	NoA
165	1	Antimony	2.2	13	2	0.21	0.552	Yes
165	1	Arsenic	130.36	25	24	7.9	0.238	Yes
165	1	Barium	1140	24	24	170	140	Yes
165	1	Benzo(ghi)perylene	0.93	6	3			NoC
165	1	Beryllium	1.08	13	13	0.69	0.00567	Yes
165	1	Beta activity	175	1	1			NoC
165	1	Bis(2-ethylhexyl)phthalate	1.1	11	4			NoC
165	1	Butyl benzyl phthalate	0.38	13	2			NoC
165	1	Cadmium	0.32	25	4	0.21	0.811	NoA
165	1	Calcium	83000	12	12	6100		NoE
165	1	Carbazole	0.37	2	1		8.72	NoA
165	1	Cesium-137	8.65	3	3	0.28	0.0267	Yes
165	1	Chlorobenzene	0.006	11	1			NoC
165	1	Chromium	66.62	25	25	43	15.6	Yes
165	1	Cobalt	13.1	12	12	13	1.37	Yes
165	1	Cobalt-60	-0.0142	1	1		0.00547	NoA
165	1	Copper	66	13	13	25	184	NoA
165	1	Dibenzofuran	0.38	13	2			NoC
165	1	Di-n-butyl phthalate	0.41	13	10			NoC
165	1	Ethylbenzene	0.006	11	1		1.58	NoA
165	1	Fluoranthene	4	17	6		109	NoA
165	1	Iron	21400	13	13	28000	3220	NoB
165	1	Lead	51.53	25	20	23	400	NoA
165	1	Magnesium	4410	12	12	2100		NoE
165	1	Manganese	696	13	13	820	419	NoB
165	1	Mercury	0.9	24	6	0.13	0.213	Yes
165	1	Methylene chloride	0.068	17	10			NoC
165	1	Naphthalene	4.7	17	4		1.15	Yes
165	1	Neptunium-237	0.56	6	6		0.0839	Yes
165	1	Nickel	39.2	25	25	22	10.4	Yes
165	1	PCB, Total	51	224	35		0.0648	Yes
165	1	Pentachlorophenol	2.1	11	1			NoC
165	1	Phenanthrene	3.8	17	6			NoC
165	1	Plutonium-238	0.128	3	3		3.21	NoA
165	1	Plutonium-239	0.39	2	2		3.15	NoA
165	1	Plutonium-239/240	7.78	3	3		3.15	Yes
165	1	Pyrene	2.9	17	5		81.2	NoA
165	1	Selenium	12.5	25	16	0.7	23	NoA
165	1	Silver	83.3	16	7	2.7	2.61	Yes
165	1	Sodium	573	12	12	340		NoE
165	1	Technetium-99	60	11	11	2.8	101	NoA
165	1	Tetrachloroethene	0.006	11	1		0.113	NoA
165	1	Thallium	0.11	12	2	0.34	0.368	NoAB
165	1	Thorium-228	1.3	3	3	1.6		NoB
165	1	Thorium-230	11.4	6	6	1.4	4.1	Yes
165	1	Thorium-232	1.21	3	3	1.5		NoB
165	1	Toluene	0.21	17	4			NoC
165	1	Total PAH	1.8683	31	5		0.0197	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
165	1	Total Xylene	0.006	11	2		7.96	NoA
165	1	Trichloroethene	0.006	11	2		0.0234	NoA
165	1	Uranium	268	10	10	4.6	13.8	Yes
165	1	Uranium-233/234	1.1	1	1	1.2	5.47	NoAB
165	1	Uranium-234	140	15	15	1.2	5.47	Yes
165	1	Uranium-235	4.7	22	22	0.06	0.122	Yes
165	1	Uranium-238	150	16	16	1.2	0.517	Yes
165	1	Vanadium	34.8	13	13	37	0.0365	NoB
165	1	Zinc	122	12	11	60	1380	NoA
169	1	Alpha activity	34.5	3	3			NoC
169	1	Aluminum	20600	26	26	12000	4410	Yes
169	1	Americium-241	0.0485	6	6		1.5	NoA
169	1	Anthracene	0.066	1	1		747	NoA
169	1	Antimony	1.3	26	5	0.21	0.552	Yes
169	1	Arsenic	20.3	58	46	7.9	0.238	Yes
169	1	Barium	281	26	26	170	140	Yes
169	1	Benzenemethanol	0.059	1	1			NoC
169	1	Benzo(ghi)perylene	2.8	1	1			NoC
169	1	Beryllium	2.3	26	26	0.69	0.00567	Yes
169	1	Beta activity	37	3	3			NoC
169	1	Bis(2-ethylhexyl)phthalate	0.27	1	1			NoC
169	1	Cadmium	0.61	26	9	0.21	0.811	NoA
169	1	Calcium	179000	26	26	6100		NoE
169	1	Cesium-137	0.215	6	6	0.28	0.0267	NoB
169	1	Chromium	214.93	58	42	43	15.6	Yes
169	1	Cobalt	78	26	22	13	1.37	Yes
169	1	Cobalt-60	0.0074	3	3		0.00547	Yes
169	1	Copper	428	58	44	25	184	Yes
169	1	Fluoranthene	2	1	1		109	NoA
169	1	Iron	41561.81	58	58	28000	3220	Yes
169	1	Lead	153.61	58	56	23	400	NoA
169	1	Magnesium	6200	26	26	2100		NoE
169	1	Manganese	1580	58	56	820	419	Yes
169	1	Mercury	7.87	58	7	0.13	0.213	Yes
169	1	Molybdenum	6.27	38	7		23	NoA
169	1	Neptunium-237	0.032	6	6		0.0839	NoA
169	1	Nickel	804	58	43	22	10.4	Yes
169	1	PCB, Total	10	31	20		0.0648	Yes
169	1	Phenanthrene	0.36	1	1			NoC
169	1	Plutonium-238	0.027	3	3		3.21	NoA
169	1	Plutonium-239/240	0.053	5	5		3.15	NoA
169	1	Pyrene	1.8	1	1		81.2	NoA
169	1	Selenium	1.7	58	15	0.7	23	NoA
169	1	Silver	0.079	58	6	2.7	2.61	NoAB
169	1	Sodium	1230	26	26	340		NoE
169	1	Technetium-99	4.69	3	3	2.8	101	NoA
169	1	Thallium	0.46	26	7	0.34	0.368	Yes
169	1	Thorium-228	1.05	3	3	1.6		NoB
169	1	Thorium-230	1.27	5	5	1.4	4.1	NoAB
169	1	Thorium-232	0.95	3	3	1.5		NoB
169	1	Total PAH	4.5859	2	2		0.0197	Yes
169	1	Uranium	50.31	39	18	4.6	13.8	Yes
169	1	Uranium-234	6.55	6	6	1.2	5.47	Yes
169	1	Uranium-235	0.46	3	3	0.06	0.122	Yes
169	1	Uranium-238	8.12	6	6	1.2	0.517	Yes
169	1	Vanadium	44.9	26	26	37	0.0365	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
169	1	Zinc	473.08	58	58	60	1380	NoA
170	1	Alpha activity	27.9	1	1			NoC
170	1	Americium-241	0.0523	3	3		1.5	NoA
170	1	Beta activity	31.5	1	1			NoC
170	1	Cesium-137	0.335	3	3	0.28	0.0267	Yes
170	1	Cobalt-60	0.0095	2	2		0.00547	Yes
170	1	Neptunium-237	0.115	3	3		0.0839	Yes
170	1	Plutonium-238	0.01	1	1		3.21	NoA
170	1	Plutonium-239/240	0.027	1	1		3.15	NoA
170	1	Technetium-99	0.91	1	1	2.8	101	NoAB
170	1	Thorium-228	0.81	1	1	1.6		NoB
170	1	Thorium-230	0.93	1	1	1.4	4.1	NoAB
170	1	Thorium-232	0.77	1	1	1.5		NoB
170	1	Uranium	4.57	1	1	4.6	13.8	NoAB
170	1	Uranium-234	1.05	3	3	1.2	5.47	NoAB
170	1	Uranium-235	0.067	1	1	0.06	0.122	NoA
170	1	Uranium-238	2.55	3	3	1.2	0.517	Yes
176	1	Alpha activity	26.1	1	1			NoC
176	1	Aluminum	9840	2	2	12000	4410	NoB
176	1	Americium-241	0.0067	1	1		1.5	NoA
176	1	Antimony	0.4	2	2	0.21	0.552	NoA
176	1	Arsenic	48.55	16	8	7.9	0.238	Yes
176	1	Barium	140	2	2	170	140	NoB
176	1	Beryllium	0.63	2	2	0.69	0.00567	NoB
176	1	Beta activity	28.3	1	1			NoC
176	1	Bis(2-ethylhexyl)phthalate	0.27	1	1			NoC
176	1	Cadmium	0.063	2	2	0.21	0.811	NoAB
176	1	Calcium	7620	2	2	6100		NoE
176	1	Cesium-137	-0.014	1	1	0.28	0.0267	NoAB
176	1	Chromium	61.07	16	6	43	15.6	Yes
176	1	Cobalt	9.7	2	2	13	1.37	NoB
176	1	Copper	24.07	16	4	25	184	NoAB
176	1	Iron	27680.8	16	16	28000	3220	NoB
176	1	Lead	445.48	16	15	23	400	Yes
176	1	Magnesium	2440	2	2	2100		NoE
176	1	Manganese	301.32	16	16	820	419	NoAB
176	1	Mercury	0.023	16	2	0.13	0.213	NoAB
176	1	Molybdenum	1.1	16	2		23	NoA
176	1	Neptunium-237	0.008	1	1		0.0839	NoA
176	1	Nickel	107.14	16	6	22	10.4	Yes
176	1	Plutonium-238	0.019	1	1		3.21	NoA
176	1	Plutonium-239/240	-0.0043	1	1		3.15	NoA
176	1	Selenium	1.7	16	2	0.7	23	NoA
176	1	Silver	0.043	16	2	2.7	2.61	NoAB
176	1	Sodium	197	2	2	340		NoBE
176	1	Technetium-99	-0.04	1	1	2.8	101	NoAB
176	1	Thallium	0.45	2	2	0.34	0.368	Yes
176	1	Thorium-228	1.05	1	1	1.6		NoB
176	1	Thorium-230	1.2	1	1	1.4	4.1	NoAB
176	1	Thorium-232	0.95	1	1	1.5		NoB
176	1	Total PAH	0.014	1	1		0.0197	NoA
176	1	Uranium	22.09	17	4	4.6	13.8	Yes
176	1	Uranium-234	0.73	1	1	1.2	5.47	NoAB
176	1	Uranium-235	0.033	1	1	0.06	0.122	NoAB
176	1	Uranium-238	0.86	1	1	1.2	0.517	NoB
176	1	Vanadium	28.1	2	2	37	0.0365	NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
176	1	Zinc	66.84	16	16	60	1380	NoA
177	1	Alpha activity	26.9	2	2			NoC
177	1	Aluminum	9120	3	3	12000	4410	NoB
177	1	Americium-241	0.006	2	2		1.5	NoA
177	1	Antimony	0.44	3	3	0.21	0.552	NoA
177	1	Arsenic	9.5	9	7	7.9	0.238	Yes
177	1	Barium	119	3	3	170	140	NoAB
177	1	Beryllium	0.58	3	3	0.69	0.00567	NoB
177	1	Beta activity	26.6	2	2			NoC
177	1	Bis(2-ethylhexyl)phthalate	0.1	3	1			NoC
177	1	Cadmium	0.12	3	3	0.21	0.811	NoAB
177	1	Calcium	22700	3	3	6100		NoE
177	1	Cesium-137	0.0005	2	2	0.28	0.0267	NoAB
177	1	Chromium	66.23	9	7	43	15.6	Yes
177	1	Cobalt	6.8	3	3	13	1.37	NoB
177	1	Copper	24.03	9	4	25	184	NoAB
177	1	Fluoranthene	0.04	3	1		109	NoA
177	1	Iron	24409.38	9	9	28000	3220	NoB
177	1	Lead	12.42	9	8	23	400	NoAB
177	1	Magnesium	2360	3	3	2100		NoE
177	1	Manganese	958	9	9	820	419	Yes
177	1	Mercury	10.54	9	4	0.13	0.213	Yes
177	1	Molybdenum	0.77	9	3		23	NoA
177	1	Neptunium-237	-0.001	2	2		0.0839	NoA
177	1	Nickel	84.65	9	6	22	10.4	Yes
177	1	Plutonium-238	0.017	2	2		3.21	NoA
177	1	Plutonium-239/240	0.017	2	2		3.15	NoA
177	1	Selenium	1.6	9	3	0.7	23	NoA
177	1	Silver	14.42	9	4	2.7	2.61	Yes
177	1	Sodium	182	3	3	340		NoBE
177	1	Technetium-99	0.11	2	2	2.8	101	NoAB
177	1	Thallium	0.4	3	3	0.34	0.368	Yes
177	1	Thorium-228	0.99	2	2	1.6		NoB
177	1	Thorium-230	1.03	2	2	1.4	4.1	NoAB
177	1	Thorium-232	0.99	2	2	1.5		NoB
177	1	Total PAH	0.0189	3	1		0.0197	NoA
177	1	Uranium	2.17	9	3	4.6	13.8	NoAB
177	1	Uranium-234	0.659	2	2	1.2	5.47	NoAB
177	1	Uranium-235	0.036	2	2	0.06	0.122	NoAB
177	1	Uranium-238	0.73	2	2	1.2	0.517	NoB
177	1	Vanadium	34.4	3	3	37	0.0365	NoB
177	1	Zinc	55.94	9	9	60	1380	NoAB
180	1	Alpha activity	25	3	3			NoC
180	1	Aluminum	11400	3	3	12000	4410	NoB
180	1	Americium-241	0.0029	3	3		1.5	NoA
180	1	Antimony	0.7	3	3	0.21	0.552	Yes
180	1	Arsenic	137.97	34	19	7.9	0.238	Yes
180	1	Barium	109	3	3	170	140	NoAB
180	1	Beryllium	0.69	3	3	0.69	0.00567	Yes
180	1	Beta activity	28.7	3	3			NoC
180	1	Cadmium	0.071	3	3	0.21	0.811	NoAB
180	1	Calcium	3110	3	3	6100		NoBE
180	1	Cesium-137	0.163	3	3	0.28	0.0267	NoB
180	1	Chromium	63.42	34	16	43	15.6	Yes
180	1	Cobalt	19.6	3	3	13	1.37	Yes
180	1	Copper	94.19	34	11	25	184	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
180	1	Iron	25930.31	34	34	28000	3220	NoB
180	1	Lead	1992.17	34	32	23	400	Yes
180	1	Magnesium	1870	3	3	2100		NoBE
180	1	Manganese	1331.95	34	32	820	419	Yes
180	1	Mercury	8.28	34	5	0.13	0.213	Yes
180	1	Molybdenum	1.4	34	3		23	NoA
180	1	Neptunium-237	0	3	3		0.0839	NoA
180	1	Nickel	90.33	34	13	22	10.4	Yes
180	1	Plutonium-238	0.017	3	3		3.21	NoA
180	1	Plutonium-239/240	0.0073	3	3		3.15	NoA
180	1	Selenium	3.82	34	4	0.7	23	NoA
180	1	Silver	11.68	34	5	2.7	2.61	Yes
180	1	Sodium	120	3	3	340		NoBE
180	1	Technetium-99	0.28	3	3	2.8	101	NoAB
180	1	Thallium	0.75	3	3	0.34	0.368	Yes
180	1	Thorium-228	1.14	3	3	1.6		NoB
180	1	Thorium-230	1.33	3	3	1.4	4.1	NoAB
180	1	Thorium-232	1.32	3	3	1.5		NoB
180	1	Total PAH	0.0147	2	2		0.0197	NoA
180	1	Uranium	2.61	35	4	4.6	13.8	NoAB
180	1	Uranium-234	0.85	3	3	1.2	5.47	NoAB
180	1	Uranium-235	0.063	3	3	0.06	0.122	NoA
180	1	Uranium-238	0.87	3	3	1.2	0.517	NoB
180	1	Vanadium	36.3	3	3	37	0.0365	NoB
180	1	Zinc	61.25	34	34	60	1380	NoA
180	2	Alpha activity	27.7	2	2			NoC
180	2	Aluminum	10600	3	3	12000	4410	NoB
180	2	Americium-241	0.0041	2	2		1.5	NoA
180	2	Antimony	0.59	3	3	0.21	0.552	Yes
180	2	Arsenic	18.65	26	14	7.9	0.238	Yes
180	2	Barium	143	3	3	170	140	NoB
180	2	Beryllium	0.55	3	3	0.69	0.00567	NoB
180	2	Beta activity	31.1	2	2			NoC
180	2	Cadmium	0.18	3	3	0.21	0.811	NoAB
180	2	Calcium	2280	3	3	6100		NoBE
180	2	Cesium-137	0.119	2	2	0.28	0.0267	NoB
180	2	Chromium	60.19	26	14	43	15.6	Yes
180	2	Cobalt	8.6	3	3	13	1.37	NoB
180	2	Copper	18.92	26	4	25	184	NoAB
180	2	Fluoranthene	0.054	1	1		109	NoA
180	2	Iron	25076.85	26	26	28000	3220	NoB
180	2	Lead	125.12	26	22	23	400	NoA
180	2	Magnesium	1400	3	3	2100		NoBE
180	2	Manganese	1648.51	26	23	820	419	Yes
180	2	Mercury	8.25	26	4	0.13	0.213	Yes
180	2	Molybdenum	0.47	26	3		23	NoA
180	2	Neptunium-237	0.008	2	2		0.0839	NoA
180	2	Nickel	86.36	26	9	22	10.4	Yes
180	2	Plutonium-238	0.008	2	2		3.21	NoA
180	2	Plutonium-239/240	0.005	2	2		3.15	NoA
180	2	Pyrene	0.056	1	1		81.2	NoA
180	2	Selenium	1.3	26	3	0.7	23	NoA
180	2	Silver	0.051	26	3	2.7	2.61	NoAB
180	2	Sodium	495	3	3	340		NoE
180	2	Technetium-99	0.22	2	2	2.8	101	NoAB
180	2	Thallium	0.33	3	3	0.34	0.368	NoAB
180	2	Thorium-228	0.97	2	2	1.6		NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
180	2	Thorium-230	0.98	2	2	1.4	4.1	NoAB
180	2	Thorium-232	0.93	2	2	1.5		NoB
180	2	Total PAH	0.091854	2	2		0.0197	Yes
180	2	Uranium	2.18	26	3	4.6	13.8	NoAB
180	2	Uranium-234	0.703	2	2	1.2	5.47	NoAB
180	2	Uranium-235	0.05	2	2	0.06	0.122	NoAB
180	2	Uranium-238	0.727	2	2	1.2	0.517	NoB
180	2	Vanadium	26.2	3	3	37	0.0365	NoB
180	2	Zinc	68.63	26	26	60	1380	NoA
180	3	Alpha activity	21.2	2	2			NoC
180	3	Aluminum	10000	3	3	12000	4410	NoB
180	3	Americium-241	0.005	2	2		1.5	NoA
180	3	Antimony	0.35	3	3	0.21	0.552	NoA
180	3	Arsenic	30.3	37	17	7.9	0.238	Yes
180	3	Barium	131	3	3	170	140	NoAB
180	3	Beryllium	0.7	3	3	0.69	0.00567	Yes
180	3	Beta activity	26.5	2	2			NoC
180	3	Cadmium	0.043	3	3	0.21	0.811	NoAB
180	3	Calcium	2510	3	3	6100		NoBE
180	3	Cesium-137	0.034	2	2	0.28	0.0267	NoB
180	3	Chromium	54.39	37	15	43	15.6	Yes
180	3	Cobalt	7	3	3	13	1.37	NoB
180	3	Copper	18.75	37	5	25	184	NoAB
180	3	Iron	21029.19	37	37	28000	3220	NoB
180	3	Lead	193.29	37	35	23	400	NoA
180	3	Magnesium	1480	3	3	2100		NoBE
180	3	Manganese	1002.39	37	37	820	419	Yes
180	3	Mercury	0.0347	37	3	0.13	0.213	NoAB
180	3	Molybdenum	0.6	37	3		23	NoA
180	3	Neptunium-237	0.001	2	2		0.0839	NoA
180	3	Nickel	107.86	37	11	22	10.4	Yes
180	3	Plutonium-238	0.0094	2	2		3.21	NoA
180	3	Plutonium-239/240	0.0051	2	2		3.15	NoA
180	3	Selenium	1.2	37	3	0.7	23	NoA
180	3	Silver	11.4	37	6	2.7	2.61	Yes
180	3	Sodium	300	3	3	340		NoBE
180	3	Technetium-99	0.14	2	2	2.8	101	NoAB
180	3	Thallium	0.31	3	3	0.34	0.368	NoAB
180	3	Thorium-228	1.03	2	2	1.6		NoB
180	3	Thorium-230	0.98	2	2	1.4	4.1	NoAB
180	3	Thorium-232	1.01	2	2	1.5		NoB
180	3	Total PAH	0.0108	2	2		0.0197	NoA
180	3	Uranium	9.29	37	4	4.6	13.8	NoA
180	3	Uranium-234	0.84	2	2	1.2	5.47	NoAB
180	3	Uranium-235	0.034	2	2	0.06	0.122	NoAB
180	3	Uranium-238	0.82	2	2	1.2	0.517	NoB
180	3	Vanadium	40.5	3	3	37	0.0365	Yes
180	3	Zinc	64.69	37	37	60	1380	NoA
180	4	Alpha activity	27.5	2	2			NoC
180	4	Aluminum	6790	2	2	12000	4410	NoB
180	4	Americium-241	0.012	2	2		1.5	NoA
180	4	Antimony	0.29	2	2	0.21	0.552	NoA
180	4	Arsenic	19.2	32	10	7.9	0.238	Yes
180	4	Barium	213	2	2	170	140	Yes
180	4	Beryllium	1.6	2	2	0.69	0.00567	Yes
180	4	Beta activity	24.3	2	2			NoC
180	4	Cadmium	0.059	2	2	0.21	0.811	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
180	4	Calcium	1210	2	2	6100		NoBE
180	4	Cesium-137	0.055	2	2	0.28	0.0267	NoB
180	4	Chromium	60.01	32	18	43	15.6	Yes
180	4	Cobalt	13.2	2	2	13	1.37	Yes
180	4	Copper	24.25	32	3	25	184	NoAB
180	4	Iron	35300	32	32	28000	3220	Yes
180	4	Lead	19.94	32	32	23	400	NoAB
180	4	Magnesium	792	2	2	2100		NoBE
180	4	Manganese	1990	32	32	820	419	Yes
180	4	Mercury	6.89	32	3	0.13	0.213	Yes
180	4	Molybdenum	1.4	32	2		23	NoA
180	4	Neptunium-237	-0.001	2	2		0.0839	NoA
180	4	Nickel	90.24	32	9	22	10.4	Yes
180	4	Plutonium-238	0.019	2	2		3.21	NoA
180	4	Plutonium-239/240	0.0071	2	2		3.15	NoA
180	4	Selenium	1.8	32	2	0.7	23	NoA
180	4	Silver	11.61	32	4	2.7	2.61	Yes
180	4	Sodium	96.4	2	2	340		NoBE
180	4	Technetium-99	0.09	2	2	2.8	101	NoAB
180	4	Thallium	0.21	2	2	0.34	0.368	NoAB
180	4	Thorium-228	0.95	2	2	1.6		NoB
180	4	Thorium-230	0.85	2	2	1.4	4.1	NoAB
180	4	Thorium-232	0.88	2	2	1.5		NoB
180	4	Total PAH	0.0215	1	1		0.0197	Yes
180	4	Uranium	2.12	32	2	4.6	13.8	NoAB
180	4	Uranium-234	0.74	2	2	1.2	5.47	NoAB
180	4	Uranium-235	0.031	2	2	0.06	0.122	NoAB
180	4	Uranium-238	0.71	2	2	1.2	0.517	NoB
180	4	Vanadium	48.5	2	2	37	0.0365	Yes
180	4	Zinc	47.8	32	32	60	1380	NoAB
181	1	Alpha activity	22.3	1	1			NoC
181	1	Aluminum	10500	54	54	12000	4410	NoB
181	1	Americium-241	0.00405	46	46		1.5	NoA
181	1	Anthracene	0.0057	5	2		747	NoA
181	1	Antimony	0.28	16	5	0.21	0.552	NoA
181	1	Arsenic	6.99	54	42	7.9	0.238	NoB
181	1	Barium	141	54	54	170	140	NoB
181	1	Benzo(ghi)perylene	0.02	5	5			NoC
181	1	Beryllium	0.521	54	13	0.69	0.00567	NoB
181	1	Beta activity	22.5	1	1			NoC
181	1	Cadmium	0.707	54	24	0.21	0.811	NoA
181	1	Calcium	182000	54	54	6100		NoE
181	1	Cesium-137	0.125	50	50	0.28	0.0267	NoB
181	1	Chromium	47.9	54	54	43	15.6	Yes
181	1	Cobalt	8.7	54	54	13	1.37	NoB
181	1	Copper	44.7	54	54	25	184	NoA
181	1	Fluoranthene	0.046	5	5		109	NoA
181	1	Iron	24600	54	54	28000	3220	NoB
181	1	Lead	88.41	167	141	23	400	NoA
181	1	Magnesium	4060	54	54	2100		NoE
181	1	Manganese	551	54	54	820	419	NoB
181	1	Mercury	0.14	54	54	0.13	0.213	NoA
181	1	Naphthalene	0.0053	5	5		1.15	NoA
181	1	Neptunium-237	0.0113	47	47		0.0839	NoA
181	1	Nickel	10.3	54	54	22	10.4	NoAB
181	1	PCB, Total	0.17	38	1		0.0648	Yes
181	1	Phenanthrene	0.033	5	5			NoC

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
181	1	Plutonium-238	0.019	43	43		3.21	NoA
181	1	Plutonium-239/240	0.0167	46	46		3.15	NoA
181	1	Pyrene	0.06	5	5		81.2	NoA
181	1	Silver	0.16	16	5	2.7	2.61	NoAB
181	1	Sodium	254	16	5	340		NoBE
181	1	Technetium-99	1.57	50	50	2.8	101	NoAB
181	1	Thallium	3.5	16	1	0.34	0.368	Yes
181	1	Thorium-228	0.84	50	50	1.6		NoB
181	1	Thorium-230	0.8	50	50	1.4	4.1	NoAB
181	1	Thorium-232	0.71	50	50	1.5		NoB
181	1	Total PAH	0.039144	6	6		0.0197	Yes
181	1	Uranium	2.37	50	2	4.6	13.8	NoAB
181	1	Uranium-234	0.74	50	50	1.2	5.47	NoAB
181	1	Uranium-235	0.022	61	61	0.06	0.122	NoAB
181	1	Uranium-238	0.79	50	50	1.2	0.517	NoB
181	1	Vanadium	25.2	54	54	37	0.0365	NoB
181	1	Zinc	85.5	54	54	60	1380	NoA
194	1	Alpha activity	37.4	4	4			NoC
194	1	Aluminum	10900	4	4	12000	4410	NoB
194	1	Americium-241	0.011	4	4		1.5	NoA
194	1	Antimony	1.5	4	4	0.21	0.552	Yes
194	1	Arsenic	14.4	39	14	7.9	0.238	Yes
194	1	Barium	131	4	4	170	140	NoAB
194	1	Beryllium	0.69	4	4	0.69	0.00567	Yes
194	1	Beta activity	36.6	4	4			NoC
194	1	Cadmium	0.067	4	3	0.21	0.811	NoAB
194	1	Calcium	1080	4	4	6100		NoBE
194	1	Cesium-137	0.19	4	4	0.28	0.0267	NoB
194	1	Chromium	51.07	39	12	43	15.6	Yes
194	1	Cobalt	8.6	4	4	13	1.37	NoB
194	1	Copper	23.16	39	8	25	184	NoAB
194	1	Iron	22900	39	39	28000	3220	NoB
194	1	Lead	47.39	39	37	23	400	NoA
194	1	Magnesium	1380	4	4	2100		NoBE
194	1	Manganese	1030	39	38	820	419	Yes
194	1	Mercury	6.71	39	5	0.13	0.213	Yes
194	1	Molybdenum	1.6	39	4		23	NoA
194	1	Neptunium-237	0.05	4	4		0.0839	NoA
194	1	Nickel	61.16	39	6	22	10.4	Yes
194	1	Plutonium-238	0.032	4	4		3.21	NoA
194	1	Plutonium-239/240	0.011	4	4		3.15	NoA
194	1	Selenium	2.8	39	4	0.7	23	NoA
194	1	Silver	10.93	39	6	2.7	2.61	Yes
194	1	Sodium	185	4	4	340		NoBE
194	1	Technetium-99	0.18	4	4	2.8	101	NoAB
194	1	Thallium	0.64	3	1	0.34	0.368	Yes
194	1	Thorium-228	1.23	4	4	1.6		NoB
194	1	Thorium-230	1.12	4	4	1.4	4.1	NoAB
194	1	Thorium-232	1.12	4	4	1.5		NoB
194	1	Uranium	7.51	39	4	4.6	13.8	NoA
194	1	Uranium-234	0.91	4	4	1.2	5.47	NoAB
194	1	Uranium-235	0.054	4	4	0.06	0.122	NoAB
194	1	Uranium-238	1.14	4	4	1.2	0.517	NoB
194	1	Vanadium	46.5	4	4	37	0.0365	Yes
194	1	Zinc	47.08	39	39	60	1380	NoAB
194	2	Alpha activity	26.4	3	3			NoC
194	2	Aluminum	10000	3	3	12000	4410	NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	2	Americium-241	0.008	3	3		1.5	NoA
194	2	Antimony	0.97	3	3	0.21	0.552	Yes
194	2	Arsenic	14.9	25	8	7.9	0.238	Yes
194	2	Barium	142	3	3	170	140	NoB
194	2	Beryllium	0.88	3	3	0.69	0.00567	Yes
194	2	Beta activity	33	3	3			NoC
194	2	Cadmium	0.13	3	3	0.21	0.811	NoAB
194	2	Calcium	24100	3	3	6100		NoE
194	2	Cesium-137	0.146	3	3	0.28	0.0267	NoB
194	2	Chromium	59.6	25	7	43	15.6	Yes
194	2	Cobalt	6.8	3	3	13	1.37	NoB
194	2	Copper	26.02	25	4	25	184	NoA
194	2	Iron	21300	25	25	28000	3220	NoB
194	2	Lead	23.33	25	24	23	400	NoA
194	2	Magnesium	1410	3	3	2100		NoBE
194	2	Manganese	822.11	25	25	820	419	Yes
194	2	Mercury	6.9	25	4	0.13	0.213	Yes
194	2	Molybdenum	0.75	25	3		23	NoA
194	2	Neptunium-237	0.051	3	3		0.0839	NoA
194	2	Nickel	14.2	25	3	22	10.4	NoB
194	2	Plutonium-238	0.022	3	3		3.21	NoA
194	2	Plutonium-239/240	0.018	3	3		3.15	NoA
194	2	Selenium	1.4	25	3	0.7	23	NoA
194	2	Silver	13.91	25	7	2.7	2.61	Yes
194	2	Sodium	54.7	3	3	340		NoBE
194	2	Technetium-99	0.13	3	3	2.8	101	NoAB
194	2	Thorium-228	1.11	3	3	1.6		NoB
194	2	Thorium-230	1.09	3	3	1.4	4.1	NoAB
194	2	Thorium-232	1.13	3	3	1.5		NoB
194	2	Total PAH	0.0059	2	1		0.0197	NoA
194	2	Uranium	33.64	25	5	4.6	13.8	Yes
194	2	Uranium-234	0.91	3	3	1.2	5.47	NoAB
194	2	Uranium-235	0.066	3	3	0.06	0.122	NoA
194	2	Uranium-238	1.42	3	3	1.2	0.517	Yes
194	2	Vanadium	42.5	3	3	37	0.0365	Yes
194	2	Zinc	39.76	25	25	60	1380	NoAB
194	3	Alpha activity	34.2	3	3			NoC
194	3	Aluminum	10400	2	2	12000	4410	NoB
194	3	Americium-241	0.011	3	3		1.5	NoA
194	3	Antimony	0.69	2	2	0.21	0.552	Yes
194	3	Arsenic	28.55	23	10	7.9	0.238	Yes
194	3	Barium	147	2	2	170	140	NoB
194	3	Beryllium	0.6	2	2	0.69	0.00567	NoB
194	3	Beta activity	36	3	3			NoC
194	3	Bis(2-ethylhexyl)phthalate	0.091	1	1			NoC
194	3	Cadmium	0.19	2	2	0.21	0.811	NoAB
194	3	Calcium	53000	2	2	6100		NoE
194	3	Cesium-137	0.327	3	3	0.28	0.0267	Yes
194	3	Chromium	49.77	23	11	43	15.6	Yes
194	3	Cobalt	6.6	2	2	13	1.37	NoB
194	3	Copper	20.89	23	4	25	184	NoAB
194	3	Fluoranthene	0.052	2	1		109	NoA
194	3	Iron	17400	23	23	28000	3220	NoB
194	3	Lead	357.64	23	22	23	400	NoA
194	3	Magnesium	2040	2	2	2100		NoBE
194	3	Manganese	678.38	23	23	820	419	NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	3	Mercury	0.0252	23	2	0.13	0.213	NoAB
194	3	Molybdenum	0.69	23	2		23	NoA
194	3	Neptunium-237	0.01	3	3		0.0839	NoA
194	3	Nickel	66.58	23	5	22	10.4	Yes
194	3	Plutonium-238	0.008	3	3		3.21	NoA
194	3	Plutonium-239/240	0.017	3	3		3.15	NoA
194	3	Selenium	1.3	23	2	0.7	23	NoA
194	3	Silver	0.033	23	2	2.7	2.61	NoAB
194	3	Sodium	440	2	2	340		NoE
194	3	Technetium-99	0.46	3	3	2.8	101	NoAB
194	3	Thallium	0.22	1	1	0.34	0.368	NoAB
194	3	Thorium-228	1.01	3	3	1.6		NoB
194	3	Thorium-230	1.12	3	3	1.4	4.1	NoAB
194	3	Thorium-232	0.99	3	3	1.5		NoB
194	3	Total PAH	0.041	3	3		0.0197	Yes
194	3	Uranium	7.35	24	4	4.6	13.8	NoA
194	3	Uranium-234	1.02	3	3	1.2	5.47	NoAB
194	3	Uranium-235	0.046	3	3	0.06	0.122	NoAB
194	3	Uranium-238	1.31	3	3	1.2	0.517	Yes
194	3	Vanadium	28.1	2	2	37	0.0365	NoB
194	3	Zinc	74.95	23	23	60	1380	NoA
194	4	Alpha activity	41.1	4	4			NoC
194	4	Aluminum	13000	4	4	12000	4410	Yes
194	4	Americium-241	0.0036	4	4		1.5	NoA
194	4	Antimony	0.35	4	4	0.21	0.552	NoA
194	4	Arsenic	16	55	22	7.9	0.238	Yes
194	4	Barium	166	4	4	170	140	NoB
194	4	Beryllium	0.92	4	4	0.69	0.00567	Yes
194	4	Beta activity	41.4	4	4			NoC
194	4	Cadmium	0.18	7	4	0.21	0.811	NoAB
194	4	Calcium	4600	4	4	6100		NoBE
194	4	Cesium-137	0.348	4	4	0.28	0.0267	Yes
194	4	Chromium	55.91	58	21	43	15.6	Yes
194	4	Cobalt	7.8	4	4	13	1.37	NoB
194	4	Copper	24.93	55	5	25	184	NoAB
194	4	Ethylbenzene	0.015	3	1		1.58	NoA
194	4	Fluoranthene	0.13	1	1		109	NoA
194	4	Iron	46652.57	55	55	28000	3220	Yes
194	4	Lead	29.76	58	54	23	400	NoA
194	4	Magnesium	1120	4	4	2100		NoBE
194	4	Manganese	1129.98	55	55	820	419	Yes
194	4	Mercury	8.92	55	5	0.13	0.213	Yes
194	4	Molybdenum	0.96	55	4		23	NoA
194	4	Neptunium-237	0.003	4	4		0.0839	NoA
194	4	Nickel	103.98	55	15	22	10.4	Yes
194	4	Phenanthrene	0.099	1	1			NoC
194	4	Plutonium-238	0.021	4	4		3.21	NoA
194	4	Plutonium-239/240	0.024	4	4		3.15	NoA
194	4	Pyrene	0.094	1	1		81.2	NoA
194	4	Selenium	2.3	55	4	0.7	23	NoA
194	4	Silver	12.35	55	12	2.7	2.61	Yes
194	4	Sodium	196	4	4	340		NoBE
194	4	Technetium-99	0.33	4	4	2.8	101	NoAB
194	4	Thallium	0.31	4	4	0.34	0.368	NoAB
194	4	Thorium-228	1.15	4	4	1.6		NoB
194	4	Thorium-230	1.15	4	4	1.4	4.1	NoAB
194	4	Thorium-232	1.1	4	4	1.5		NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	4	Total PAH	0.072955	1	1		0.0197	Yes
194	4	Uranium	6.4	55	5	4.6	13.8	NoA
194	4	Uranium-234	1.11	4	4	1.2	5.47	NoAB
194	4	Uranium-235	0.068	4	4	0.06	0.122	NoA
194	4	Uranium-238	1.73	4	4	1.2	0.517	Yes
194	4	Vanadium	47.5	4	4	37	0.0365	Yes
194	4	Zinc	169.07	55	55	60	1380	NoA
194	5	Acenaphthene	0.058	3	1		117	NoA
194	5	Alpha activity	31.4	3	3			NoC
194	5	Aluminum	15200	4	4	12000	4410	Yes
194	5	Americium-241	0.005	3	3		1.5	NoA
194	5	Anthracene	0.13	3	1		747	NoA
194	5	Antimony	0.53	4	3	0.21	0.552	NoA
194	5	Arsenic	13.45	46	16	7.9	0.238	Yes
194	5	Barium	163	4	4	170	140	NoB
194	5	Benzo(ghi)perylene	0.29	3	1			NoC
194	5	Beryllium	0.8	4	4	0.69	0.00567	Yes
194	5	Beta activity	42.3	3	3			NoC
194	5	Bis(2-ethylhexyl)phthalate	0.067	3	1			NoC
194	5	Cadmium	0.12	4	3	0.21	0.811	NoAB
194	5	Calcium	37700	4	4	6100		NoE
194	5	Cesium-137	0.183	3	3	0.28	0.0267	NoB
194	5	Chromium	55.4	46	17	43	15.6	Yes
194	5	Cobalt	7.1	4	4	13	1.37	NoB
194	5	Copper	33.01	46	10	25	184	NoA
194	5	Fluoranthene	1.1	3	1		109	NoA
194	5	Fluorene	0.047	3	1		91.5	NoA
194	5	Iron	24800	46	46	28000	3220	NoB
194	5	Lead	27.94	46	43	23	400	NoA
194	5	Magnesium	2570	4	4	2100		NoE
194	5	Manganese	4146.45	46	46	820	419	Yes
194	5	Mercury	8.69	46	3	0.13	0.213	Yes
194	5	Molybdenum	0.76	45	3		23	NoA
194	5	Neptunium-237	0.002	3	3		0.0839	NoA
194	5	Nickel	75.64	46	6	22	10.4	Yes
194	5	Phenanthrene	0.51	3	1			NoC
194	5	Plutonium-238	0.016	3	3		3.21	NoA
194	5	Plutonium-239/240	0.0111	3	3		3.15	NoA
194	5	Pyrene	0.83	3	1		81.2	NoA
194	5	Selenium	2.1	46	3	0.7	23	NoA
194	5	Silver	15.49	46	8	2.7	2.61	Yes
194	5	Sodium	195	4	4	340		NoBE
194	5	Technetium-99	0.45	3	3	2.8	101	NoAB
194	5	Thallium	0.28	4	2	0.34	0.368	NoAB
194	5	Thorium-228	1.3	3	3	1.6		NoB
194	5	Thorium-230	1.27	3	3	1.4	4.1	NoAB
194	5	Thorium-232	1.14	3	3	1.5		NoB
194	5	Total PAH	0.77791	4	2		0.0197	Yes
194	5	Uranium	9.55	45	6	4.6	13.8	NoA
194	5	Uranium-234	1.07	3	3	1.2	5.47	NoAB
194	5	Uranium-235	0.063	3	3	0.06	0.122	NoA
194	5	Uranium-238	1.38	3	3	1.2	0.517	Yes
194	5	Vanadium	45.2	4	4	37	0.0365	Yes
194	5	Zinc	69.28	46	46	60	1380	NoA
194	6	Alpha activity	35.2	2	2			NoC
194	6	Aluminum	10400	2	2	12000	4410	NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	6	Americium-241	0.014	2	2		1.5	NoA
194	6	Antimony	0.38	2	2	0.21	0.552	NoA
194	6	Arsenic	7.82	16	5	7.9	0.238	NoB
194	6	Barium	138	2	2	170	140	NoAB
194	6	Beryllium	0.62	2	2	0.69	0.00567	NoB
194	6	Beta activity	29.6	2	2			NoC
194	6	Cadmium	0.065	2	2	0.21	0.811	NoAB
194	6	Calcium	2770	2	2	6100		NoBE
194	6	Cesium-137	0.259	2	2	0.28	0.0267	NoB
194	6	Chromium	42.44	16	4	43	15.6	NoB
194	6	Cobalt	6.2	2	2	13	1.37	NoB
194	6	Copper	42.29	16	4	25	184	NoA
194	6	Iron	17838.96	16	16	28000	3220	NoB
194	6	Lead	25.32	16	16	23	400	NoA
194	6	Magnesium	1290	2	2	2100		NoBE
194	6	Manganese	2806.97	16	16	820	419	Yes
194	6	Mercury	0.021	16	2	0.13	0.213	NoAB
194	6	Molybdenum	0.8	16	2		23	NoA
194	6	Neptunium-237	0.0003	2	2		0.0839	NoA
194	6	Nickel	80.6	16	7	22	10.4	Yes
194	6	Plutonium-238	0.0164	2	2		3.21	NoA
194	6	Plutonium-239/240	0.0145	2	2		3.15	NoA
194	6	Selenium	1.6	16	2	0.7	23	NoA
194	6	Silver	9.89	16	3	2.7	2.61	Yes
194	6	Sodium	50.9	2	2	340		NoBE
194	6	Technetium-99	0.45	2	2	2.8	101	NoAB
194	6	Thallium	0.29	1	1	0.34	0.368	NoAB
194	6	Thorium-228	1.01	2	2	1.6		NoB
194	6	Thorium-230	1.14	2	2	1.4	4.1	NoAB
194	6	Thorium-232	1.08	2	2	1.5		NoB
194	6	Total PAH	0.009	1	1		0.0197	NoA
194	6	Uranium	3.97	16	2	4.6	13.8	NoAB
194	6	Uranium-234	1.21	2	2	1.2	5.47	NoA
194	6	Uranium-235	0.06	2	2	0.06	0.122	NoA
194	6	Uranium-238	1.32	2	2	1.2	0.517	Yes
194	6	Vanadium	26.3	2	2	37	0.0365	NoB
194	6	Zinc	71.73	16	16	60	1380	NoA
194	7	Alpha activity	31.4	2	2			NoC
194	7	Aluminum	8690	2	2	12000	4410	NoB
194	7	Americium-241	0.005	2	2		1.5	NoA
194	7	Antimony	0.47	2	2	0.21	0.552	NoA
194	7	Arsenic	10.89	30	14	7.9	0.238	Yes
194	7	Barium	116	2	2	170	140	NoAB
194	7	Beryllium	0.43	2	2	0.69	0.00567	NoB
194	7	Beta activity	32.4	2	2			NoC
194	7	Cadmium	0.14	5	2	0.21	0.811	NoAB
194	7	Calcium	1560	2	2	6100		NoBE
194	7	Cesium-137	0.125	2	2	0.28	0.0267	NoB
194	7	Chromium	53.2	33	17	43	15.6	Yes
194	7	Cobalt	9.5	2	2	13	1.37	NoB
194	7	Copper	22.31	30	5	25	184	NoAB
194	7	Iron	20872.11	30	30	28000	3220	NoB
194	7	Lead	26.14	33	32	23	400	NoA
194	7	Magnesium	1050	2	2	2100		NoBE
194	7	Manganese	1410	30	30	820	419	Yes
194	7	Mercury	0.0474	30	2	0.13	0.213	NoAB
194	7	Molybdenum	0.84	30	2		23	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	7	Neptunium-237	-0.0014	2	2		0.0839	NoA
194	7	Nickel	77.14	30	5	22	10.4	Yes
194	7	Plutonium-238	0.015	2	2		3.21	NoA
194	7	Plutonium-239/240	0.01	2	2		3.15	NoA
194	7	Selenium	3.46	30	3	0.7	23	NoA
194	7	Silver	13.53	30	4	2.7	2.61	Yes
194	7	Sodium	37.5	2	2	340		NoBE
194	7	Technetium-99	0.22	2	2	2.8	101	NoAB
194	7	Thallium	0.18	2	2	0.34	0.368	NoAB
194	7	Thorium-228	1.2	2	2	1.6		NoB
194	7	Thorium-230	1.26	2	2	1.4	4.1	NoAB
194	7	Thorium-232	1.16	2	2	1.5		NoB
194	7	Uranium	2.69	30	2	4.6	13.8	NoAB
194	7	Uranium-234	0.85	2	2	1.2	5.47	NoAB
194	7	Uranium-235	0.038	2	2	0.06	0.122	NoAB
194	7	Uranium-238	0.9	2	2	1.2	0.517	NoB
194	7	Vanadium	27.2	2	2	37	0.0365	NoB
194	7	Zinc	274.99	30	30	60	1380	NoA
194	8	Acenaphthene	0.043	1	1		117	NoA
194	8	Alpha activity	27.7	2	2			NoC
194	8	Aluminum	10300	2	2	12000	4410	NoB
194	8	Americium-241	0.006	2	2		1.5	NoA
194	8	Anthracene	0.095	1	1		747	NoA
194	8	Antimony	0.62	2	2	0.21	0.552	Yes
194	8	Arsenic	14.03	18	10	7.9	0.238	Yes
194	8	Barium	116	2	2	170	140	NoAB
194	8	Benzo(ghi)perylene	0.17	1	1			NoC
194	8	Beryllium	0.57	2	2	0.69	0.00567	NoB
194	8	Beta activity	29.6	2	2			NoC
194	8	Bis(2-ethylhexyl)phthalate	15	1	1			NoC
194	8	Cadmium	0.1	2	2	0.21	0.811	NoAB
194	8	Calcium	2590	2	2	6100		NoBE
194	8	Cesium-137	0.36	2	2	0.28	0.0267	Yes
194	8	Chromium	60.93	18	11	43	15.6	Yes
194	8	Cobalt	18.7	2	2	13	1.37	Yes
194	8	Copper	10.2	18	2	25	184	NoAB
194	8	Di-n-butyl phthalate	0.82	1	1			NoC
194	8	Di-n-octylphthalate	0.054	1	1			NoC
194	8	Fluoranthene	0.8	1	1		109	NoA
194	8	Fluorene	0.056	1	1		91.5	NoA
194	8	Iron	16797.86	18	18	28000	3220	NoB
194	8	Lead	24.28	18	18	23	400	NoA
194	8	Magnesium	1260	2	2	2100		NoBE
194	8	Manganese	2810	18	18	820	419	Yes
194	8	Mercury	0.0309	18	2	0.13	0.213	NoAB
194	8	Molybdenum	0.64	18	2		23	NoA
194	8	Neptunium-237	0.023	2	2		0.0839	NoA
194	8	Nickel	60.07	18	3	22	10.4	Yes
194	8	Phenanthrene	0.6	1	1			NoC
194	8	Plutonium-238	0.013	2	2		3.21	NoA
194	8	Plutonium-239/240	0.011	2	2		3.15	NoA
194	8	Pyrene	0.6	1	1		81.2	NoA
194	8	Selenium	1.3	18	2	0.7	23	NoA
194	8	Silver	0.057	18	2	2.7	2.61	NoAB
194	8	Sodium	33.3	2	2	340		NoBE
194	8	Technetium-99	0.5	2	2	2.8	101	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	8	Thallium	0.13	1	1	0.34	0.368	NoAB
194	8	Thorium-228	1.08	2	2	1.6		NoB
194	8	Thorium-230	1.13	2	2	1.4	4.1	NoAB
194	8	Thorium-232	1	2	2	1.5		NoB
194	8	Total PAH	0.48503	1	1		0.0197	Yes
194	8	Uranium	4.19	18	2	4.6	13.8	NoAB
194	8	Uranium-234	1.1	2	2	1.2	5.47	NoAB
194	8	Uranium-235	0.086	2	2	0.06	0.122	NoA
194	8	Uranium-238	1.39	2	2	1.2	0.517	Yes
194	8	Vanadium	28.9	2	2	37	0.0365	NoB
194	8	Zinc	130.64	18	18	60	1380	NoA
194	9	Alpha activity	30.4	2	2			NoC
194	9	Aluminum	10900	2	2	12000	4410	NoB
194	9	Americium-241	0.0052	2	2		1.5	NoA
194	9	Antimony	0.43	2	2	0.21	0.552	NoA
194	9	Arsenic	14	20	8	7.9	0.238	Yes
194	9	Barium	135	2	2	170	140	NoAB
194	9	Beryllium	0.64	2	2	0.69	0.00567	NoB
194	9	Beta activity	34.6	2	2			NoC
194	9	Bis(2-ethylhexyl)phthalate	0.36	1	1			NoC
194	9	Cadmium	0.11	2	2	0.21	0.811	NoAB
194	9	Calcium	3580	2	2	6100		NoBE
194	9	Cesium-137	0.26	2	2	0.28	0.0267	NoB
194	9	Chromium	51.65	20	12	43	15.6	Yes
194	9	Cobalt	12.8	2	2	13	1.37	NoB
194	9	Copper	12.8	20	2	25	184	NoAB
194	9	Iron	21000	20	20	28000	3220	NoB
194	9	Lead	53.16	20	19	23	400	NoA
194	9	Magnesium	1740	2	2	2100		NoBE
194	9	Manganese	1080	20	20	820	419	Yes
194	9	Mercury	0.0217	20	2	0.13	0.213	NoAB
194	9	Molybdenum	1.8	20	2		23	NoA
194	9	Neptunium-237	0.0012	2	2		0.0839	NoA
194	9	Nickel	59.82	20	3	22	10.4	Yes
194	9	Plutonium-238	0.027	2	2		3.21	NoA
194	9	Plutonium-239/240	0.014	2	2		3.15	NoA
194	9	Selenium	1.4	20	2	0.7	23	NoA
194	9	Silver	10.73	20	3	2.7	2.61	Yes
194	9	Sodium	186	2	2	340		NoBE
194	9	Technetium-99	0.2	2	2	2.8	101	NoAB
194	9	Thallium	0.16	1	1	0.34	0.368	NoAB
194	9	Thorium-228	1.1	2	2	1.6		NoB
194	9	Thorium-230	1.15	2	2	1.4	4.1	NoAB
194	9	Thorium-232	1.06	2	2	1.5		NoB
194	9	Total PAH	0.0151	1	1		0.0197	NoA
194	9	Uranium	9.89	20	3	4.6	13.8	NoA
194	9	Uranium-234	0.87	2	2	1.2	5.47	NoAB
194	9	Uranium-235	0.047	2	2	0.06	0.122	NoAB
194	9	Uranium-238	1.1	2	2	1.2	0.517	NoB
194	9	Vanadium	33.6	2	2	37	0.0365	NoB
194	9	Zinc	211.57	20	20	60	1380	NoA
194	10	Alpha activity	28.9	2	2			NoC
194	10	Aluminum	9680	2	2	12000	4410	NoB
194	10	Americium-241	0.01	2	2		1.5	NoA
194	10	Antimony	0.3	2	2	0.21	0.552	NoA
194	10	Arsenic	14.08	16	8	7.9	0.238	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	10	Barium	77.7	2	2	170	140	NoAB
194	10	Benzo(ghi)perylene	0.097	1	1			NoC
194	10	Beryllium	0.54	2	2	0.69	0.00567	NoB
194	10	Beta activity	28.6	2	2			NoC
194	10	Cadmium	0.29	2	2	0.21	0.811	NoA
194	10	Calcium	63000	2	2	6100		NoE
194	10	Cesium-137	0.581	2	2	0.28	0.0267	Yes
194	10	Chromium	49.95	16	7	43	15.6	Yes
194	10	Cobalt	5	2	2	13	1.37	NoB
194	10	Copper	10.3	16	2	25	184	NoAB
194	10	Fluoranthene	0.25	2	2		109	NoA
194	10	Iron	17900	16	16	28000	3220	NoB
194	10	Lead	98.86	16	14	23	400	NoA
194	10	Magnesium	3010	2	2	2100		NoE
194	10	Manganese	520.77	16	16	820	419	NoB
194	10	Mercury	8.07	16	3	0.13	0.213	Yes
194	10	Molybdenum	0.95	16	2		23	NoA
194	10	Neptunium-237	0.002	2	2		0.0839	NoA
194	10	Nickel	75.99	16	4	22	10.4	Yes
194	10	Phenanthrene	0.082	1	1			NoC
194	10	Plutonium-238	0.0089	2	2		3.21	NoA
194	10	Plutonium-239/240	0.048	2	2		3.15	NoA
194	10	Pyrene	0.18	2	2		81.2	NoA
194	10	Selenium	1.1	16	2	0.7	23	NoA
194	10	Silver	0.054	16	2	2.7	2.61	NoAB
194	10	Sodium	217	2	2	340		NoBE
194	10	Technetium-99	0.31	2	2	2.8	101	NoAB
194	10	Thallium	0.45	2	2	0.34	0.368	Yes
194	10	Thorium-228	0.97	2	2	1.6		NoB
194	10	Thorium-230	1.08	2	2	1.4	4.1	NoAB
194	10	Thorium-232	0.95	2	2	1.5		NoB
194	10	Total PAH	0.25715	2	2		0.0197	Yes
194	10	Uranium	7.21	16	3	4.6	13.8	NoA
194	10	Uranium-234	1	2	2	1.2	5.47	NoAB
194	10	Uranium-235	0.054	2	2	0.06	0.122	NoAB
194	10	Uranium-238	1.49	2	2	1.2	0.517	Yes
194	10	Vanadium	27.5	2	2	37	0.0365	NoB
194	10	Zinc	315.61	16	16	60	1380	NoA
194	11	Alpha activity	21.4	2	2			NoC
194	11	Aluminum	7870	2	2	12000	4410	NoB
194	11	Americium-241	0.0007	2	2		1.5	NoA
194	11	Antimony	0.38	2	2	0.21	0.552	NoA
194	11	Arsenic	12.46	28	9	7.9	0.238	Yes
194	11	Barium	90.8	2	2	170	140	NoAB
194	11	Beryllium	0.59	2	2	0.69	0.00567	NoB
194	11	Beta activity	25.3	2	2			NoC
194	11	Cadmium	0.5	2	2	0.21	0.811	NoA
194	11	Calcium	262000	2	2	6100		NoE
194	11	Cesium-137	0.003	2	2	0.28	0.0267	NoAB
194	11	Chromium	56.55	28	10	43	15.6	Yes
194	11	Cobalt	9.7	2	2	13	1.37	NoB
194	11	Copper	26.6	28	3	25	184	NoA
194	11	Fluoranthene	0.14	1	1		109	NoA
194	11	Iron	21900	28	28	28000	3220	NoB
194	11	Lead	30.94	28	23	23	400	NoA
194	11	Magnesium	12800	2	2	2100		NoE
194	11	Manganese	400.98	28	26	820	419	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	11	Mercury	8.09	28	3	0.13	0.213	Yes
194	11	Molybdenum	1.2	28	2		23	NoA
194	11	Neptunium-237	0.002	2	2		0.0839	NoA
194	11	Nickel	100.68	28	14	22	10.4	Yes
194	11	PCB, Total	0.084	12	1		0.0648	Yes
194	11	Phenanthrene	0.067	1	1			NoC
194	11	Plutonium-238	0.0174	2	2		3.21	NoA
194	11	Plutonium-239/240	0.0061	2	2		3.15	NoA
194	11	Pyrene	0.096	1	1		81.2	NoA
194	11	Selenium	1	28	2	0.7	23	NoA
194	11	Silver	13.29	28	4	2.7	2.61	Yes
194	11	Sodium	176	2	2	340		NoBE
194	11	Technetium-99	0.12	2	2	2.8	101	NoAB
194	11	Thallium	0.37	1	1	0.34	0.368	Yes
194	11	Thorium-228	0.675	2	2	1.6		NoB
194	11	Thorium-230	0.94	2	2	1.4	4.1	NoAB
194	11	Thorium-232	0.666	2	2	1.5		NoB
194	11	Total PAH	0.079526	2	2		0.0197	Yes
194	11	Uranium	2.98	28	2	4.6	13.8	NoAB
194	11	Uranium-234	0.89	2	2	1.2	5.47	NoAB
194	11	Uranium-235	0.047	2	2	0.06	0.122	NoAB
194	11	Uranium-238	1	2	2	1.2	0.517	NoB
194	11	Vanadium	31.4	2	2	37	0.0365	NoB
194	11	Zinc	368.09	28	28	60	1380	NoA
194	12	Acenaphthene	0.11	3	3		117	NoA
194	12	Alpha activity	25.2	3	3			NoC
194	12	Aluminum	7460	3	3	12000	4410	NoB
194	12	Americium-241	0.014	3	3		1.5	NoA
194	12	Anthracene	0.23	3	3		747	NoA
194	12	Antimony	0.4	3	3	0.21	0.552	NoA
194	12	Arsenic	9.18	26	8	7.9	0.238	Yes
194	12	Barium	110	3	3	170	140	NoAB
194	12	Benzo(ghi)perylene	0.62	3	3			NoC
194	12	Beryllium	0.53	3	3	0.69	0.00567	NoB
194	12	Beta activity	28.1	3	3			NoC
194	12	Cadmium	0.6	3	3	0.21	0.811	NoA
194	12	Calcium	180000	3	3	6100		NoE
194	12	Cesium-137	0.03	3	3	0.28	0.0267	NoB
194	12	Chromium	63.36	26	15	43	15.6	Yes
194	12	Cobalt	6.9	3	3	13	1.37	NoB
194	12	Copper	10	26	3	25	184	NoAB
194	12	Dibenzofuran	0.048	2	1			NoC
194	12	Fluoranthene	1.9	3	3		109	NoA
194	12	Fluorene	0.084	3	3		91.5	NoA
194	12	Iron	20400	26	26	28000	3220	NoB
194	12	Lead	59.1	26	25	23	400	NoA
194	12	Magnesium	7190	3	3	2100		NoE
194	12	Manganese	1487.85	26	26	820	419	Yes
194	12	Mercury	0.0453	26	3	0.13	0.213	NoAB
194	12	Molybdenum	1.7	26	3		23	NoA
194	12	Naphthalene	0.048	2	1		1.15	NoA
194	12	Neptunium-237	-0.0007	3	3		0.0839	NoA
194	12	Nickel	78.6	26	6	22	10.4	Yes
194	12	Phenanthrene	1	3	3			NoC
194	12	Plutonium-238	0.012	3	3		3.21	NoA
194	12	Plutonium-239/240	0.0062	3	3		3.15	NoA
194	12	Pyrene	1.6	3	3		81.2	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	12	Selenium	1.2	26	3	0.7	23	NoA
194	12	Silver	16.99	26	5	2.7	2.61	Yes
194	12	Sodium	101	3	3	340		NoBE
194	12	Technetium-99	0.28	3	3	2.8	101	NoAB
194	12	Thallium	0.2	3	2	0.34	0.368	NoAB
194	12	Thorium-228	0.8	3	3	1.6		NoB
194	12	Thorium-230	1	3	3	1.4	4.1	NoAB
194	12	Thorium-232	0.81	3	3	1.5		NoB
194	12	Total PAH	0.89142	3	3		0.0197	Yes
194	12	Uranium	2.7	26	3	4.6	13.8	NoAB
194	12	Uranium-234	0.646	3	3	1.2	5.47	NoAB
194	12	Uranium-235	0.047	3	3	0.06	0.122	NoAB
194	12	Uranium-238	0.77	3	3	1.2	0.517	NoB
194	12	Vanadium	25.2	3	3	37	0.0365	NoB
194	12	Zinc	108	26	26	60	1380	NoA
194	13	Alpha activity	27.6	3	3			NoC
194	13	Aluminum	9550	3	3	12000	4410	NoB
194	13	Americium-241	0.0053	3	3		1.5	NoA
194	13	Antimony	0.32	3	3	0.21	0.552	NoA
194	13	Arsenic	9.9	21	9	7.9	0.238	Yes
194	13	Barium	118	3	3	170	140	NoAB
194	13	Beryllium	0.55	3	3	0.69	0.00567	NoB
194	13	Beta activity	29.8	3	3			NoC
194	13	Bis(2-ethylhexyl)phthalate	0.14	1	1			NoC
194	13	Cadmium	0.26	6	3	0.21	0.811	NoA
194	13	Calcium	119000	3	3	6100		NoE
194	13	Cesium-137	0.028	3	3	0.28	0.0267	NoB
194	13	Chromium	62.45	24	12	43	15.6	Yes
194	13	Cobalt	8.5	3	3	13	1.37	NoB
194	13	Copper	41.61	21	4	25	184	NoA
194	13	Fluoranthene	0.056	1	1		109	NoA
194	13	Iron	24875.84	21	21	28000	3220	NoB
194	13	Lead	29.8	24	23	23	400	NoA
194	13	Magnesium	5300	3	3	2100		NoE
194	13	Manganese	1411.47	21	21	820	419	Yes
194	13	Mercury	0.0363	21	2	0.13	0.213	NoAB
194	13	Molybdenum	0.76	21	3		23	NoA
194	13	Neptunium-237	0	3	3		0.0839	NoA
194	13	Nickel	85.52	21	6	22	10.4	Yes
194	13	Plutonium-238	0.01	3	3		3.21	NoA
194	13	Plutonium-239/240	0.0123	3	3		3.15	NoA
194	13	Pyrene	0.049	1	1		81.2	NoA
194	13	Selenium	1.3	21	3	0.7	23	NoA
194	13	Silver	0.12	21	3	2.7	2.61	NoAB
194	13	Sodium	123	3	3	340		NoBE
194	13	Technetium-99	0.16	3	3	2.8	101	NoAB
194	13	Thallium	0.19	1	1	0.34	0.368	NoAB
194	13	Thorium-228	1.03	3	3	1.6		NoB
194	13	Thorium-230	1.08	3	3	1.4	4.1	NoAB
194	13	Thorium-232	0.99	3	3	1.5		NoB
194	13	Total PAH	0.091347	3	2		0.0197	Yes
194	13	Uranium	2.16	21	3	4.6	13.8	NoAB
194	13	Uranium-234	0.69	3	3	1.2	5.47	NoAB
194	13	Uranium-235	0.04	3	3	0.06	0.122	NoAB
194	13	Uranium-238	0.72	3	3	1.2	0.517	NoB
194	13	Vanadium	27.6	3	3	37	0.0365	NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	13	Zinc	64.03	21	21	60	1380	NoA
194	14	Alpha activity	28.5	2	2			NoC
194	14	Aluminum	13400	2	2	12000	4410	Yes
194	14	Americium-241	0.011	2	2		1.5	NoA
194	14	Antimony	0.39	2	2	0.21	0.552	NoA
194	14	Arsenic	12.53	27	18	7.9	0.238	Yes
194	14	Barium	128	2	2	170	140	NoAB
194	14	Benzoic acid	0.4	1	1			NoC
194	14	Beryllium	0.64	2	2	0.69	0.00567	NoB
194	14	Beta activity	34.3	2	2			NoC
194	14	Cadmium	0.032	2	2	0.21	0.811	NoAB
194	14	Calcium	378	2	2	6100		NoBE
194	14	Cesium-137	0.119	2	2	0.28	0.0267	NoB
194	14	Chromium	66.72	27	18	43	15.6	Yes
194	14	Cobalt	11.2	2	2	13	1.37	NoB
194	14	Copper	13.4	27	2	25	184	NoAB
194	14	Iron	22000	27	27	28000	3220	NoB
194	14	Lead	23.1	27	27	23	400	NoA
194	14	Magnesium	1750	2	2	2100		NoBE
194	14	Manganese	1420	27	26	820	419	Yes
194	14	Mercury	8.94	27	4	0.13	0.213	Yes
194	14	Molybdenum	1.1	27	2		23	NoA
194	14	Neptunium-237	0	2	2		0.0839	NoA
194	14	Nickel	70.85	27	3	22	10.4	Yes
194	14	Plutonium-238	0.017	2	2		3.21	NoA
194	14	Plutonium-239/240	0.011	2	2		3.15	NoA
194	14	Selenium	1.1	27	2	0.7	23	NoA
194	14	Silver	0.036	27	2	2.7	2.61	NoAB
194	14	Sodium	116	2	2	340		NoBE
194	14	Technetium-99	0.32	2	2	2.8	101	NoAB
194	14	Thallium	0.25	2	2	0.34	0.368	NoAB
194	14	Thorium-228	0.99	2	2	1.6		NoB
194	14	Thorium-230	1.1	2	2	1.4	4.1	NoAB
194	14	Thorium-232	0.92	2	2	1.5		NoB
194	14	Uranium	2.91	27	2	4.6	13.8	NoAB
194	14	Uranium-234	0.89	2	2	1.2	5.47	NoAB
194	14	Uranium-235	0.054	2	2	0.06	0.122	NoAB
194	14	Uranium-238	0.97	2	2	1.2	0.517	NoB
194	14	Vanadium	38	2	2	37	0.0365	Yes
194	14	Zinc	60.78	27	27	60	1380	NoA
194	15	Alpha activity	26.6	1	1			NoC
194	15	Aluminum	6780	1	1	12000	4410	NoB
194	15	Americium-241	-0.012	1	1		1.5	NoA
194	15	Antimony	0.43	1	1	0.21	0.552	NoA
194	15	Arsenic	11.74	29	14	7.9	0.238	Yes
194	15	Barium	105	1	1	170	140	NoAB
194	15	Beryllium	0.37	1	1	0.69	0.00567	NoB
194	15	Beta activity	29.8	1	1			NoC
194	15	Cadmium	0.038	1	1	0.21	0.811	NoAB
194	15	Calcium	1360	1	1	6100		NoBE
194	15	Cesium-137	0.008	1	1	0.28	0.0267	NoAB
194	15	Chromium	60.57	29	11	43	15.6	Yes
194	15	Cobalt	12.3	1	1	13	1.37	NoB
194	15	Copper	26.67	16	6	25	184	NoA
194	15	Iron	20531.44	29	29	28000	3220	NoB
194	15	Lead	29.22	29	28	23	400	NoA
194	15	Magnesium	805	1	1	2100		NoBE

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	15	Manganese	929.67	29	29	820	419	Yes
194	15	Mercury	0.0319	16	1	0.13	0.213	NoAB
194	15	Molybdenum	0.33	16	1		23	NoA
194	15	Neptunium-237	-0.0038	1	1		0.0839	NoA
194	15	Nickel	88.34	16	2	22	10.4	Yes
194	15	Plutonium-238	0.023	1	1		3.21	NoA
194	15	Plutonium-239/240	0.007	1	1		3.15	NoA
194	15	Selenium	1.1	16	1	0.7	23	NoA
194	15	Silver	11.68	29	2	2.7	2.61	Yes
194	15	Sodium	25.5	1	1	340		NoBE
194	15	Technetium-99	0.07	1	1	2.8	101	NoAB
194	15	Thallium	0.11	1	1	0.34	0.368	NoAB
194	15	Thorium-228	0.91	1	1	1.6		NoB
194	15	Thorium-230	1.02	1	1	1.4	4.1	NoAB
194	15	Thorium-232	1.02	1	1	1.5		NoB
194	15	Uranium	2.33	16	1	4.6	13.8	NoAB
194	15	Uranium-234	0.73	1	1	1.2	5.47	NoAB
194	15	Uranium-235	0.062	1	1	0.06	0.122	NoA
194	15	Uranium-238	0.77	1	1	1.2	0.517	NoB
194	15	Vanadium	21.3	1	1	37	0.0365	NoB
194	15	Zinc	53.19	29	29	60	1380	NoAB
194	16	Alpha activity	29.4	3	3			NoC
194	16	Aluminum	8420	3	3	12000	4410	NoB
194	16	Americium-241	0.013	3	3		1.5	NoA
194	16	Antimony	0.74	3	3	0.21	0.552	Yes
194	16	Arsenic	17.8	39	19	7.9	0.238	Yes
194	16	Barium	140	3	3	170	140	NoB
194	16	Beryllium	0.87	3	3	0.69	0.00567	Yes
194	16	Beta activity	33.4	3	3			NoC
194	16	Cadmium	0.15	6	3	0.21	0.811	NoAB
194	16	Calcium	11300	3	3	6100		NoE
194	16	Cesium-137	0.239	3	3	0.28	0.0267	NoB
194	16	Chromium	53.24	42	23	43	15.6	Yes
194	16	Cobalt	6.9	3	3	13	1.37	NoB
194	16	Copper	24.04	39	5	25	184	NoAB
194	16	Iron	26700	39	39	28000	3220	NoB
194	16	Lead	129.9	42	40	23	400	NoA
194	16	Magnesium	1710	3	3	2100		NoBE
194	16	Manganese	3860.98	39	39	820	419	Yes
194	16	Mercury	0.0262	39	3	0.13	0.213	NoAB
194	16	Molybdenum	1.9	39	3		23	NoA
194	16	Neptunium-237	0.01	3	3		0.0839	NoA
194	16	Nickel	108.4	39	7	22	10.4	Yes
194	16	Plutonium-238	0.022	3	3		3.21	NoA
194	16	Plutonium-239/240	0.012	3	3		3.15	NoA
194	16	Selenium	1.4	39	3	0.7	23	NoA
194	16	Silver	12.32	39	7	2.7	2.61	Yes
194	16	Sodium	385	3	3	340		NoE
194	16	Technetium-99	0.34	3	3	2.8	101	NoAB
194	16	Thallium	0.63	3	2	0.34	0.368	Yes
194	16	Thorium-228	1	3	3	1.6		NoB
194	16	Thorium-230	1.07	3	3	1.4	4.1	NoAB
194	16	Thorium-232	1	3	3	1.5		NoB
194	16	Total PAH	0.0062	1	1		0.0197	NoA
194	16	Uranium	8.72	39	4	4.6	13.8	NoA
194	16	Uranium-234	1.12	3	3	1.2	5.47	NoAB
194	16	Uranium-235	0.056	3	3	0.06	0.122	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	16	Uranium-238	1.06	3	3	1.2	0.517	NoB
194	16	Vanadium	41.1	3	3	37	0.0365	Yes
194	16	Zinc	69.31	39	39	60	1380	NoA
194	17	Alpha activity	36.2	2	2			NoC
194	17	Aluminum	11300	2	2	12000	4410	NoB
194	17	Americium-241	0.009	2	2		1.5	NoA
194	17	Antimony	0.3	2	2	0.21	0.552	NoA
194	17	Arsenic	13.96	16	9	7.9	0.238	Yes
194	17	Barium	113	2	2	170	140	NoAB
194	17	Benzo(ghi)perylene	0.054	1	1			NoC
194	17	Beryllium	0.44	2	2	0.69	0.00567	NoB
194	17	Beta activity	32.4	2	2			NoC
194	17	Bis(2-ethylhexyl)phthalate	0.094	1	1			NoC
194	17	Cadmium	1.1	2	2	0.21	0.811	Yes
194	17	Calcium	112000	2	2	6100		NoE
194	17	Cesium-137	0.332	2	2	0.28	0.0267	Yes
194	17	Chromium	55.85	16	7	43	15.6	Yes
194	17	Cobalt	4.8	2	2	13	1.37	NoB
194	17	Copper	24.27	16	3	25	184	NoAB
194	17	Fluoranthene	0.2	1	1		109	NoA
194	17	Iron	21100	16	16	28000	3220	NoB
194	17	Lead	101.67	16	16	23	400	NoA
194	17	Magnesium	7460	2	2	2100		NoE
194	17	Manganese	705.35	16	16	820	419	NoB
194	17	Mercury	0.024	8	1	0.13	0.213	NoAB
194	17	Molybdenum	1.2	16	2		23	NoA
194	17	Neptunium-237	0.008	2	2		0.0839	NoA
194	17	Nickel	69.36	16	3	22	10.4	Yes
194	17	Phenanthrene	0.064	1	1			NoC
194	17	Plutonium-238	0.021	2	2		3.21	NoA
194	17	Plutonium-239/240	0.02	2	2		3.15	NoA
194	17	Pyrene	0.14	1	1		81.2	NoA
194	17	Selenium	1	16	2	0.7	23	NoA
194	17	Silver	0.056	16	2	2.7	2.61	NoAB
194	17	Sodium	148	2	2	340		NoBE
194	17	Technetium-99	0.13	2	2	2.8	101	NoAB
194	17	Thallium	0.17	2	2	0.34	0.368	NoAB
194	17	Thorium-228	1.01	2	2	1.6		NoB
194	17	Thorium-230	0.99	2	2	1.4	4.1	NoAB
194	17	Thorium-232	0.95	2	2	1.5		NoB
194	17	Total PAH	0.15866	2	2		0.0197	Yes
194	17	Uranium	7.51	16	3	4.6	13.8	NoA
194	17	Uranium-234	0.75	2	2	1.2	5.47	NoAB
194	17	Uranium-235	0.04	2	2	0.06	0.122	NoAB
194	17	Uranium-238	0.98	2	2	1.2	0.517	NoB
194	17	Vanadium	24.5	2	2	37	0.0365	NoB
194	17	Zinc	640.18	16	16	60	1380	NoA
194	18	Alpha activity	33.5	2	2			NoC
194	18	Aluminum	19800	2	2	12000	4410	Yes
194	18	Americium-241	0.003	2	2		1.5	NoA
194	18	Antimony	0.66	2	2	0.21	0.552	Yes
194	18	Arsenic	16.81	29	23	7.9	0.238	Yes
194	18	Barium	137	2	2	170	140	NoAB
194	18	Beryllium	0.74	2	2	0.69	0.00567	Yes
194	18	Beta activity	38.3	2	2			NoC
194	18	Cadmium	0.1	2	2	0.21	0.811	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	18	Calcium	3180	2	2	6100		NoBE
194	18	Cesium-137	0.139	2	2	0.28	0.0267	NoB
194	18	Chromium	68.48	29	12	43	15.6	Yes
194	18	Cobalt	9.9	2	2	13	1.37	NoB
194	18	Copper	31.21	29	5	25	184	NoA
194	18	Iron	30000	29	29	28000	3220	Yes
194	18	Lead	20.18	29	28	23	400	NoAB
194	18	Magnesium	3350	2	2	2100		NoE
194	18	Manganese	1336.71	29	29	820	419	Yes
194	18	Mercury	0.0604	29	2	0.13	0.213	NoAB
194	18	Molybdenum	1.4	29	2		23	NoA
194	18	Neptunium-237	0	2	2		0.0839	NoA
194	18	Nickel	105.31	29	11	22	10.4	Yes
194	18	Plutonium-238	0.014	2	2		3.21	NoA
194	18	Plutonium-239/240	0.022	2	2		3.15	NoA
194	18	Selenium	1.2	29	2	0.7	23	NoA
194	18	Silver	0.62	29	2	2.7	2.61	NoAB
194	18	Sodium	255	2	2	340		NoBE
194	18	Technetium-99	0.25	2	2	2.8	101	NoAB
194	18	Thallium	0.37	2	2	0.34	0.368	Yes
194	18	Thorium-228	0.93	2	2	1.6		NoB
194	18	Thorium-230	1.03	2	2	1.4	4.1	NoAB
194	18	Thorium-232	0.89	2	2	1.5		NoB
194	18	Uranium	7.93	29	3	4.6	13.8	NoA
194	18	Uranium-234	0.85	2	2	1.2	5.47	NoAB
194	18	Uranium-235	0.05	2	2	0.06	0.122	NoAB
194	18	Uranium-238	0.87	2	2	1.2	0.517	NoB
194	18	Vanadium	41.1	2	2	37	0.0365	Yes
194	18	Zinc	62.4	29	29	60	1380	NoA
194	19	Alpha activity	35.4	2	2			NoC
194	19	Aluminum	11200	2	2	12000	4410	NoB
194	19	Americium-241	0.027	2	2		1.5	NoA
194	19	Antimony	0.49	2	2	0.21	0.552	NoA
194	19	Arsenic	12	17	8	7.9	0.238	Yes
194	19	Barium	118	2	2	170	140	NoAB
194	19	Beryllium	0.59	2	2	0.69	0.00567	NoB
194	19	Beta activity	39.8	2	2			NoC
194	19	Bis(2-ethylhexyl)phthalate	0.095	1	1			NoC
194	19	Cadmium	0.096	2	2	0.21	0.811	NoAB
194	19	Calcium	2500	2	2	6100		NoBE
194	19	Cesium-137	0.206	2	2	0.28	0.0267	NoB
194	19	Chromium	48.35	17	7	43	15.6	Yes
194	19	Cobalt	7.4	2	2	13	1.37	NoB
194	19	Copper	25.1	17	4	25	184	NoA
194	19	Iron	20700	17	17	28000	3220	NoB
194	19	Lead	38.22	17	15	23	400	NoA
194	19	Magnesium	2010	2	2	2100		NoBE
194	19	Manganese	754.79	17	16	820	419	NoB
194	19	Mercury	0.0306	17	2	0.13	0.213	NoAB
194	19	Molybdenum	19.56	17	3		23	NoA
194	19	Neptunium-237	-0.005	2	2		0.0839	NoA
194	19	Nickel	78.79	17	3	22	10.4	Yes
194	19	Plutonium-238	0.011	2	2		3.21	NoA
194	19	Plutonium-239/240	0.007	2	2		3.15	NoA
194	19	Selenium	1.4	17	2	0.7	23	NoA
194	19	Silver	9.44	17	3	2.7	2.61	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	19	Sodium	89.3	2	2	340		NoBE
194	19	Technetium-99	0.35	2	2	2.8	101	NoAB
194	19	Thallium	0.18	2	2	0.34	0.368	NoAB
194	19	Thorium-228	1	2	2	1.6		NoB
194	19	Thorium-230	1.21	2	2	1.4	4.1	NoAB
194	19	Thorium-232	0.97	2	2	1.5		NoB
194	19	Total PAH	0.0096	1	1		0.0197	NoA
194	19	Uranium	2.86	17	2	4.6	13.8	NoAB
194	19	Uranium-234	0.93	2	2	1.2	5.47	NoAB
194	19	Uranium-235	0.04	2	2	0.06	0.122	NoAB
194	19	Uranium-238	0.96	2	2	1.2	0.517	NoB
194	19	Vanadium	29.1	2	2	37	0.0365	NoB
194	19	Zinc	53.99	17	16	60	1380	NoAB
194	20	Alpha activity	27	2	2			NoC
194	20	Aluminum	8610	2	2	12000	4410	NoB
194	20	Americium-241	0.033	2	2		1.5	NoA
194	20	Antimony	0.37	2	2	0.21	0.552	NoA
194	20	Arsenic	16.4	25	13	7.9	0.238	Yes
194	20	Barium	326	2	2	170	140	Yes
194	20	Beryllium	1.1	2	2	0.69	0.00567	Yes
194	20	Beta activity	36.6	2	2			NoC
194	20	Bis(2-ethylhexyl)phthalate	0.36	1	1			NoC
194	20	Cadmium	0.25	8	2	0.21	0.811	NoA
194	20	Calcium	1910	2	2	6100		NoBE
194	20	Cesium-137	0.217	2	2	0.28	0.0267	NoB
194	20	Chromium	103	31	19	43	15.6	Yes
194	20	Cobalt	21.1	2	2	13	1.37	Yes
194	20	Copper	29.4	25	5	25	184	NoA
194	20	Iron	27800	25	25	28000	3220	NoB
194	20	Lead	360	31	27	23	400	NoA
194	20	Magnesium	1050	2	2	2100		NoBE
194	20	Manganese	4670	25	25	820	419	Yes
194	20	Mercury	7.28	25	3	0.13	0.213	Yes
194	20	Molybdenum	1.2	25	2		23	NoA
194	20	Neptunium-237	-0.0062	2	2		0.0839	NoA
194	20	Nickel	65.7	25	3	22	10.4	Yes
194	20	Plutonium-238	0.025	2	2		3.21	NoA
194	20	Plutonium-239/240	0.01	2	2		3.15	NoA
194	20	Selenium	2.4	25	2	0.7	23	NoA
194	20	Silver	12.22	25	5	2.7	2.61	Yes
194	20	Sodium	52.6	2	2	340		NoBE
194	20	Technetium-99	0.2	2	2	2.8	101	NoAB
194	20	Thallium	0.22	2	2	0.34	0.368	NoAB
194	20	Thorium-228	0.98	2	2	1.6		NoB
194	20	Thorium-230	1.03	2	2	1.4	4.1	NoAB
194	20	Thorium-232	0.98	2	2	1.5		NoB
194	20	Total PAH	0.031	2	2		0.0197	Yes
194	20	Total Xylene	0.005	6	1		7.96	NoA
194	20	Uranium	7.17	25	3	4.6	13.8	NoA
194	20	Uranium-234	0.86	2	2	1.2	5.47	NoAB
194	20	Uranium-235	0.043	2	2	0.06	0.122	NoAB
194	20	Uranium-238	0.97	2	2	1.2	0.517	NoB
194	20	Vanadium	38.1	2	2	37	0.0365	Yes
194	20	Zinc	60.27	25	25	60	1380	NoA
194	21	Alpha activity	28	2	2			NoC
194	21	Aluminum	10000	2	2	12000	4410	NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	21	Americium-241	0.003	2	2		1.5	NoA
194	21	Antimony	0.93	2	2	0.21	0.552	Yes
194	21	Arsenic	35.2	8	4	7.9	0.238	Yes
194	21	Barium	2960	2	2	170	140	Yes
194	21	Beryllium	1.8	2	2	0.69	0.00567	Yes
194	21	Beta activity	29.2	2	2			NoC
194	21	Bis(2-ethylhexyl)phthalate	0.093	1	1			NoC
194	21	Cadmium	0.48	2	2	0.21	0.811	NoA
194	21	Calcium	226000	2	2	6100		NoE
194	21	Cesium-137	0.226	2	2	0.28	0.0267	NoB
194	21	Chromium	55.09	8	5	43	15.6	Yes
194	21	Cobalt	83.1	2	2	13	1.37	Yes
194	21	Copper	24.7	8	2	25	184	NoAB
194	21	Iron	47300	8	8	28000	3220	Yes
194	21	Lead	60.8	8	7	23	400	NoA
194	21	Magnesium	5770	2	2	2100		NoE
194	21	Manganese	31100	8	8	820	419	Yes
194	21	Mercury	6.62	8	3	0.13	0.213	Yes
194	21	Molybdenum	4.5	8	2		23	NoA
194	21	Neptunium-237	0.002	2	2		0.0839	NoA
194	21	Nickel	70.12	8	3	22	10.4	Yes
194	21	Plutonium-238	0.041	2	2		3.21	NoA
194	21	Plutonium-239/240	0.004	2	2		3.15	NoA
194	21	Selenium	4.03	8	3	0.7	23	NoA
194	21	Silver	0.1	8	2	2.7	2.61	NoAB
194	21	Sodium	174	2	2	340		NoBE
194	21	Technetium-99	0.24	2	2	2.8	101	NoAB
194	21	Thallium	1.4	2	2	0.34	0.368	Yes
194	21	Thorium-228	0.92	2	2	1.6		NoB
194	21	Thorium-230	1.29	2	2	1.4	4.1	NoAB
194	21	Thorium-232	0.91	2	2	1.5		NoB
194	21	Total PAH	0.0141	2	2		0.0197	NoA
194	21	Uranium	2.77	8	2	4.6	13.8	NoAB
194	21	Uranium-234	0.94	2	2	1.2	5.47	NoAB
194	21	Uranium-235	0.028	2	2	0.06	0.122	NoAB
194	21	Uranium-238	0.93	2	2	1.2	0.517	NoB
194	21	Vanadium	86.3	2	2	37	0.0365	Yes
194	21	Zinc	63.5	8	8	60	1380	NoA
194	22	Alpha activity	28.7	3	3			NoC
194	22	Aluminum	13300	3	3	12000	4410	Yes
194	22	Americium-241	0.013	3	3		1.5	NoA
194	22	Antimony	0.66	3	3	0.21	0.552	Yes
194	22	Arsenic	13.73	18	14	7.9	0.238	Yes
194	22	Barium	148	3	3	170	140	NoB
194	22	Benzoic acid	0.48	1	1			NoC
194	22	Beryllium	0.68	3	3	0.69	0.00567	NoB
194	22	Beta activity	34.8	3	3			NoC
194	22	Cadmium	0.1	3	3	0.21	0.811	NoAB
194	22	Calcium	1320	3	3	6100		NoBE
194	22	Cesium-137	0.288	4	4	0.28	0.0267	Yes
194	22	Chromium	55.27	18	13	43	15.6	Yes
194	22	Cobalt	13.9	3	3	13	1.37	Yes
194	22	Copper	21.81	18	5	25	184	NoAB
194	22	Iron	27027.06	18	18	28000	3220	NoB
194	22	Lead	23.6	18	18	23	400	NoA
194	22	Magnesium	2440	3	3	2100		NoE

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	22	Manganese	1700	18	18	820	419	Yes
194	22	Mercury	0.0551	18	3	0.13	0.213	NoAB
194	22	Molybdenum	1	18	3		23	NoA
194	22	Neptunium-237	0.0035	3	3		0.0839	NoA
194	22	Nickel	70.76	18	4	22	10.4	Yes
194	22	PCB, Total	18	10	1		0.0648	Yes
194	22	Plutonium-238	0.028	3	3		3.21	NoA
194	22	Plutonium-239/240	0.018	3	3		3.15	NoA
194	22	Selenium	1.5	18	3	0.7	23	NoA
194	22	Silver	11.35	18	4	2.7	2.61	Yes
194	22	Sodium	273	3	3	340		NoBE
194	22	Technetium-99	0.64	4	4	2.8	101	NoAB
194	22	Thallium	0.29	3	3	0.34	0.368	NoAB
194	22	Thorium-228	1.02	3	3	1.6		NoB
194	22	Thorium-230	1.05	3	3	1.4	4.1	NoAB
194	22	Thorium-232	0.97	3	3	1.5		NoB
194	22	Uranium	3.05	30	15	4.6	13.8	NoAB
194	22	Uranium-234	0.95	4	4	1.2	5.47	NoAB
194	22	Uranium-235	0.049	6	6	0.06	0.122	NoAB
194	22	Uranium-238	1.02	4	4	1.2	0.517	NoB
194	22	Vanadium	35.6	3	3	37	0.0365	NoB
194	22	Zinc	62.9	18	18	60	1380	NoA
194	23	Alpha activity	32.2	1	1			NoC
194	23	Aluminum	9520	1	1	12000	4410	NoB
194	23	Americium-241	0.0007	1	1		1.5	NoA
194	23	Antimony	0.41	1	1	0.21	0.552	NoA
194	23	Arsenic	18.03	25	13	7.9	0.238	Yes
194	23	Barium	88.1	1	1	170	140	NoAB
194	23	Beryllium	0.55	1	1	0.69	0.00567	NoB
194	23	Beta activity	39.1	1	1			NoC
194	23	Cadmium	8.55	4	2	0.21	0.811	Yes
194	23	Calcium	529	1	1	6100		NoBE
194	23	Cesium-137	0.283	1	1	0.28	0.0267	Yes
194	23	Chromium	67.6	28	17	43	15.6	Yes
194	23	Cobalt	7.2	1	1	13	1.37	NoB
194	23	Copper	29.31	12	3	25	184	NoA
194	23	Iron	33875.03	25	25	28000	3220	Yes
194	23	Lead	53.74	28	27	23	400	NoA
194	23	Magnesium	1190	1	1	2100		NoBE
194	23	Manganese	1301.73	25	24	820	419	Yes
194	23	Mercury	7.75	25	2	0.13	0.213	Yes
194	23	Molybdenum	0.69	12	1		23	NoA
194	23	Neptunium-237	-0.002	1	1		0.0839	NoA
194	23	Nickel	88.92	25	8	22	10.4	Yes
194	23	Plutonium-238	0.023	1	1		3.21	NoA
194	23	Plutonium-239/240	0.01	1	1		3.15	NoA
194	23	Selenium	1.4	12	1	0.7	23	NoA
194	23	Silver	11.48	25	3	2.7	2.61	Yes
194	23	Sodium	29.1	1	1	340		NoBE
194	23	Technetium-99	0.19	1	1	2.8	101	NoAB
194	23	Thallium	0.16	1	1	0.34	0.368	NoAB
194	23	Thorium-228	0.9	1	1	1.6		NoB
194	23	Thorium-230	1.01	1	1	1.4	4.1	NoAB
194	23	Thorium-232	0.97	1	1	1.5		NoB
194	23	Total PAH	0.0099	1	1		0.0197	NoA
194	23	Uranium	8	12	2	4.6	13.8	NoA
194	23	Uranium-234	0.83	1	1	1.2	5.47	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	23	Uranium-235	0.081	1	1	0.06	0.122	NoA
194	23	Uranium-238	0.96	1	1	1.2	0.517	NoB
194	23	Vanadium	31.5	1	1	37	0.0365	NoB
194	23	Zinc	226.89	25	25	60	1380	NoA
194	24	Alpha activity	30.6	3	3			NoC
194	24	Aluminum	10600	3	3	12000	4410	NoB
194	24	Americium-241	0.021	3	3		1.5	NoA
194	24	Antimony	0.55	3	3	0.21	0.552	NoA
194	24	Arsenic	18.79	27	17	7.9	0.238	Yes
194	24	Barium	155	3	3	170	140	NoB
194	24	Beryllium	0.7	3	3	0.69	0.00567	Yes
194	24	Beta activity	38.9	3	3			NoC
194	24	Cadmium	0.11	3	3	0.21	0.811	NoAB
194	24	Calcium	14400	3	3	6100		NoE
194	24	Cesium-137	0.32	3	3	0.28	0.0267	Yes
194	24	Chromium	57.42	27	16	43	15.6	Yes
194	24	Cobalt	9	3	3	13	1.37	NoB
194	24	Copper	34.9	27	7	25	184	NoA
194	24	Iron	45721.84	27	27	28000	3220	Yes
194	24	Lead	23.33	27	23	23	400	NoA
194	24	Magnesium	2600	3	3	2100		NoE
194	24	Manganese	983.61	27	26	820	419	Yes
194	24	Mercury	7.03	27	4	0.13	0.213	Yes
194	24	Molybdenum	0.93	27	3		23	NoA
194	24	Neptunium-237	0.0034	3	3		0.0839	NoA
194	24	Nickel	84.13	27	7	22	10.4	Yes
194	24	Plutonium-238	0.013	3	3		3.21	NoA
194	24	Plutonium-239/240	0.025	3	3		3.15	NoA
194	24	Selenium	1.6	27	3	0.7	23	NoA
194	24	Silver	0.046	27	3	2.7	2.61	NoAB
194	24	Sodium	167	3	3	340		NoBE
194	24	Technetium-99	0.23	3	3	2.8	101	NoAB
194	24	Thallium	0.21	3	3	0.34	0.368	NoAB
194	24	Thorium-228	0.9	3	3	1.6		NoB
194	24	Thorium-230	1.04	3	3	1.4	4.1	NoAB
194	24	Thorium-232	1.02	3	3	1.5		NoB
194	24	Total PAH	0.0228	1	1		0.0197	Yes
194	24	Uranium	6.43	27	4	4.6	13.8	NoA
194	24	Uranium-234	0.84	3	3	1.2	5.47	NoAB
194	24	Uranium-235	0.073	3	3	0.06	0.122	NoA
194	24	Uranium-238	1.02	3	3	1.2	0.517	NoB
194	24	Vanadium	33.4	3	3	37	0.0365	NoB
194	24	Zinc	61.93	27	27	60	1380	NoA
194	25	Alpha activity	29.8	2	2			NoC
194	25	Aluminum	14500	5	5	12000	4410	Yes
194	25	Americium-241	0.0049	2	2		1.5	NoA
194	25	Antimony	0.33	5	2	0.21	0.552	NoA
194	25	Arsenic	10.9	13	4	7.9	0.238	Yes
194	25	Barium	300	5	5	170	140	Yes
194	25	Beryllium	0.83	5	3	0.69	0.00567	Yes
194	25	Beta activity	45.2	2	2			NoC
194	25	Cadmium	0.093	5	2	0.21	0.811	NoAB
194	25	Calcium	2340	5	5	6100		NoBE
194	25	Cesium-137	0.142	2	2	0.28	0.0267	NoB
194	25	Chromium	61.25	13	11	43	15.6	Yes
194	25	Cobalt	9.6	5	5	13	1.37	NoB
194	25	Copper	16.7	13	5	25	184	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	25	Iron	20000	13	13	28000	3220	NoB
194	25	Lead	24.6	13	9	23	400	NoA
194	25	Magnesium	2330	5	5	2100		NoE
194	25	Manganese	1800	13	13	820	419	Yes
194	25	Mercury	0.029	13	2	0.13	0.213	NoAB
194	25	Molybdenum	0.78	10	2		23	NoA
194	25	Neptunium-237	0.005	2	2		0.0839	NoA
194	25	Nickel	63.32	13	5	22	10.4	Yes
194	25	Plutonium-238	0.0111	2	2		3.21	NoA
194	25	Plutonium-239/240	0.0069	2	2		3.15	NoA
194	25	Selenium	1.4	13	2	0.7	23	NoA
194	25	Silver	0.034	13	2	2.7	2.61	NoAB
194	25	Sodium	364	5	5	340		NoE
194	25	Technetium-99	0	2	2	2.8	101	NoAB
194	25	Thallium	0.17	5	2	0.34	0.368	NoAB
194	25	Thorium-228	1.1	2	2	1.6		NoB
194	25	Thorium-230	1.2	2	2	1.4	4.1	NoAB
194	25	Thorium-232	1.08	2	2	1.5		NoB
194	25	Total PAH	0.0206	1	1		0.0197	Yes
194	25	Uranium	3.22	10	2	4.6	13.8	NoAB
194	25	Uranium-234	0.83	2	2	1.2	5.47	NoAB
194	25	Uranium-235	0.043	2	2	0.06	0.122	NoAB
194	25	Uranium-238	1.07	2	2	1.2	0.517	NoB
194	25	Vanadium	29.8	5	5	37	0.0365	NoB
194	25	Zinc	67.6	13	12	60	1380	NoA
194	26	Alpha activity	25	2	2			NoC
194	26	Aluminum	12500	2	2	12000	4410	Yes
194	26	Americium-241	0.009	2	2		1.5	NoA
194	26	Antimony	0.45	2	2	0.21	0.552	NoA
194	26	Arsenic	9.09	22	10	7.9	0.238	Yes
194	26	Barium	158	2	2	170	140	NoB
194	26	Beryllium	0.75	2	2	0.69	0.00567	Yes
194	26	Beta activity	29.9	2	2			NoC
194	26	Bis(2-ethylhexyl)phthalate	0.17	1	1			NoC
194	26	Cadmium	0.031	2	2	0.21	0.811	NoAB
194	26	Calcium	1100	2	2	6100		NoBE
194	26	Cesium-137	0	2	2	0.28	0.0267	NoAB
194	26	Chromium	48.1	22	8	43	15.6	Yes
194	26	Cobalt	16	2	2	13	1.37	Yes
194	26	Copper	19.14	22	4	25	184	NoAB
194	26	Iron	27100	22	22	28000	3220	NoB
194	26	Lead	33.11	22	21	23	400	NoA
194	26	Magnesium	1740	2	2	2100		NoBE
194	26	Manganese	904	22	22	820	419	Yes
194	26	Mercury	0.0449	22	2	0.13	0.213	NoAB
194	26	Molybdenum	0.87	22	2		23	NoA
194	26	Neptunium-237	-0.0008	2	2		0.0839	NoA
194	26	Nickel	13.9	22	2	22	10.4	NoB
194	26	Plutonium-238	0.017	2	2		3.21	NoA
194	26	Plutonium-239/240	0.009	2	2		3.15	NoA
194	26	Selenium	1	22	2	0.7	23	NoA
194	26	Silver	10.27	22	3	2.7	2.61	Yes
194	26	Sodium	235	2	2	340		NoBE
194	26	Technetium-99	0.06	2	2	2.8	101	NoAB
194	26	Thallium	0.39	2	2	0.34	0.368	Yes
194	26	Thorium-228	0.88	2	2	1.6		NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	26	Thorium-230	0.9	2	2	1.4	4.1	NoAB
194	26	Thorium-232	0.89	2	2	1.5		NoB
194	26	Uranium	2.18	22	2	4.6	13.8	NoAB
194	26	Uranium-234	0.69	2	2	1.2	5.47	NoAB
194	26	Uranium-235	0.028	2	2	0.06	0.122	NoAB
194	26	Uranium-238	0.73	2	2	1.2	0.517	NoB
194	26	Vanadium	44.1	2	2	37	0.0365	Yes
194	26	Zinc	42.07	22	21	60	1380	NoAB
194	27	Alpha activity	34.1	2	2			NoC
194	27	Aluminum	8360	2	2	12000	4410	NoB
194	27	Americium-241	0.012	2	2		1.5	NoA
194	27	Antimony	0.64	2	2	0.21	0.552	Yes
194	27	Arsenic	16.08	20	8	7.9	0.238	Yes
194	27	Barium	107	2	2	170	140	NoAB
194	27	Beryllium	0.62	2	2	0.69	0.00567	NoB
194	27	Beta activity	30.7	2	2			NoC
194	27	Cadmium	0.097	2	2	0.21	0.811	NoAB
194	27	Calcium	1400	2	2	6100		NoBE
194	27	Cesium-137	0.22	2	2	0.28	0.0267	NoB
194	27	Chromium	57.43	20	15	43	15.6	Yes
194	27	Cobalt	6.9	2	2	13	1.37	NoB
194	27	Copper	20.2	20	4	25	184	NoAB
194	27	Iron	18419.4	20	20	28000	3220	NoB
194	27	Lead	17.23	20	20	23	400	NoAB
194	27	Magnesium	1390	2	2	2100		NoBE
194	27	Manganese	742	20	20	820	419	NoB
194	27	Mercury	0.0245	20	2	0.13	0.213	NoAB
194	27	Molybdenum	0.61	20	2		23	NoA
194	27	Neptunium-237	-0.004	2	2		0.0839	NoA
194	27	Nickel	65.5	20	5	22	10.4	Yes
194	27	Plutonium-238	0.019	2	2		3.21	NoA
194	27	Plutonium-239/240	0.012	2	2		3.15	NoA
194	27	Selenium	1.4	20	2	0.7	23	NoA
194	27	Silver	10.3	20	5	2.7	2.61	Yes
194	27	Sodium	51.2	2	2	340		NoBE
194	27	Technetium-99	0.16	2	2	2.8	101	NoAB
194	27	Thallium	0.29	2	2	0.34	0.368	NoAB
194	27	Thorium-228	1.16	2	2	1.6		NoB
194	27	Thorium-230	1.57	2	2	1.4	4.1	NoA
194	27	Thorium-232	1.07	2	2	1.5		NoB
194	27	Total PAH	0.0083	2	2		0.0197	NoA
194	27	Uranium	2.59	20	2	4.6	13.8	NoAB
194	27	Uranium-234	0.7	2	2	1.2	5.47	NoAB
194	27	Uranium-235	0.052	2	2	0.06	0.122	NoAB
194	27	Uranium-238	0.87	2	2	1.2	0.517	NoB
194	27	Vanadium	25	2	2	37	0.0365	NoB
194	27	Zinc	45.08	20	20	60	1380	NoAB
194	28	Alpha activity	36.8	3	3			NoC
194	28	Aluminum	10200	2	2	12000	4410	NoB
194	28	Americium-241	0.016	3	3		1.5	NoA
194	28	Antimony	0.48	2	2	0.21	0.552	NoA
194	28	Arsenic	14.8	25	13	7.9	0.238	Yes
194	28	Barium	143	2	2	170	140	NoB
194	28	Beryllium	0.76	2	2	0.69	0.00567	Yes
194	28	Beta activity	39.5	3	3			NoC
194	28	Cadmium	0.098	2	2	0.21	0.811	NoAB
194	28	Calcium	42500	2	2	6100		NoE

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	28	Cesium-137	0.071	3	3	0.28	0.0267	NoB
194	28	Chromium	86.43	25	19	43	15.6	Yes
194	28	Cobalt	11.3	2	2	13	1.37	NoB
194	28	Copper	20.76	25	4	25	184	NoAB
194	28	Iron	21800	25	25	28000	3220	NoB
194	28	Lead	26.1	25	24	23	400	NoA
194	28	Magnesium	2090	2	2	2100		NoBE
194	28	Manganese	2400	25	25	820	419	Yes
194	28	Mercury	0.0269	25	2	0.13	0.213	NoAB
194	28	Molybdenum	1.1	25	2		23	NoA
194	28	Neptunium-237	-0.003	3	3		0.0839	NoA
194	28	Nickel	69.74	25	5	22	10.4	Yes
194	28	Plutonium-238	0.026	3	3		3.21	NoA
194	28	Plutonium-239/240	0.014	3	3		3.15	NoA
194	28	Selenium	1.5	25	2	0.7	23	NoA
194	28	Silver	15.2	25	8	2.7	2.61	Yes
194	28	Sodium	92	2	2	340		NoBE
194	28	Technetium-99	0.22	3	3	2.8	101	NoAB
194	28	Thallium	0.17	2	2	0.34	0.368	NoAB
194	28	Thorium-228	1.09	3	3	1.6		NoB
194	28	Thorium-230	1.09	3	3	1.4	4.1	NoAB
194	28	Thorium-232	1.01	3	3	1.5		NoB
194	28	Total PAH	0.0051	1	1		0.0197	NoA
194	28	Uranium	2.82	25	3	4.6	13.8	NoAB
194	28	Uranium-234	0.77	3	3	1.2	5.47	NoAB
194	28	Uranium-235	0.053	3	3	0.06	0.122	NoAB
194	28	Uranium-238	0.94	3	3	1.2	0.517	NoB
194	28	Vanadium	40.6	2	2	37	0.0365	Yes
194	28	Zinc	59.47	25	25	60	1380	NoAB
194	29	Alpha activity	33.2	2	2			NoC
194	29	Aluminum	13200	2	2	12000	4410	Yes
194	29	Americium-241	0.021	2	2		1.5	NoA
194	29	Antimony	0.71	2	2	0.21	0.552	Yes
194	29	Arsenic	14.29	12	7	7.9	0.238	Yes
194	29	Barium	188	2	2	170	140	Yes
194	29	Beryllium	0.82	2	2	0.69	0.00567	Yes
194	29	Beta activity	30.9	2	2			NoC
194	29	Cadmium	0.14	2	2	0.21	0.811	NoAB
194	29	Calcium	1840	2	2	6100		NoBE
194	29	Cesium-137	0.19	2	2	0.28	0.0267	NoB
194	29	Chromium	57.58	12	8	43	15.6	Yes
194	29	Cobalt	14.1	2	2	13	1.37	Yes
194	29	Copper	25.42	12	2	25	184	NoA
194	29	Iron	25800	12	12	28000	3220	NoB
194	29	Lead	28.71	12	12	23	400	NoA
194	29	Magnesium	1850	2	2	2100		NoBE
194	29	Manganese	2650.3	12	12	820	419	Yes
194	29	Mercury	0.0466	12	2	0.13	0.213	NoAB
194	29	Molybdenum	1	12	2		23	NoA
194	29	Neptunium-237	0	2	2		0.0839	NoA
194	29	Nickel	84.65	12	4	22	10.4	Yes
194	29	Plutonium-238	0.011	2	2		3.21	NoA
194	29	Plutonium-239/240	0.012	2	2		3.15	NoA
194	29	Selenium	1.5	12	2	0.7	23	NoA
194	29	Silver	9.77	12	3	2.7	2.61	Yes
194	29	Sodium	132	2	2	340		NoBE
194	29	Technetium-99	0.21	2	2	2.8	101	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	29	Thallium	0.44	2	2	0.34	0.368	Yes
194	29	Thorium-228	0.87	2	2	1.6		NoB
194	29	Thorium-230	1.06	2	2	1.4	4.1	NoAB
194	29	Thorium-232	0.81	2	2	1.5		NoB
194	29	Uranium	2.56	12	2	4.6	13.8	NoAB
194	29	Uranium-234	0.87	2	2	1.2	5.47	NoAB
194	29	Uranium-235	0.047	2	2	0.06	0.122	NoAB
194	29	Uranium-238	0.85	2	2	1.2	0.517	NoB
194	29	Vanadium	41.2	2	2	37	0.0365	Yes
194	29	Zinc	63.17	12	12	60	1380	NoA
194	30	Alpha activity	27.1	2	2			NoC
194	30	Aluminum	11300	5	5	12000	4410	NoB
194	30	Americium-241	0.016	2	2		1.5	NoA
194	30	Antimony	0.48	5	2	0.21	0.552	NoA
194	30	Arsenic	13.19	26	11	7.9	0.238	Yes
194	30	Barium	96.5	5	5	170	140	NoAB
194	30	Beryllium	4.8	5	3	0.69	0.00567	Yes
194	30	Beta activity	34.8	2	2			NoC
194	30	Bis(2-ethylhexyl)phthalate	0.59	1	1			NoC
194	30	Cadmium	0.096	5	2	0.21	0.811	NoAB
194	30	Calcium	2880	5	5	6100		NoBE
194	30	Cesium-137	0.262	2	2	0.28	0.0267	NoB
194	30	Chromium	58.6	26	17	43	15.6	Yes
194	30	Cobalt	7.5	5	5	13	1.37	NoB
194	30	Copper	23.12	26	9	25	184	NoAB
194	30	Iron	20694.26	26	26	28000	3220	NoB
194	30	Lead	33.92	26	23	23	400	NoA
194	30	Magnesium	2340	5	5	2100		NoE
194	30	Manganese	1240.56	26	26	820	419	Yes
194	30	Mercury	8.8	26	3	0.13	0.213	Yes
194	30	Molybdenum	0.82	23	2		23	NoA
194	30	Neptunium-237	0.003	2	2		0.0839	NoA
194	30	Nickel	69.87	26	9	22	10.4	Yes
194	30	Plutonium-238	0.018	2	2		3.21	NoA
194	30	Plutonium-239/240	0.0161	2	2		3.15	NoA
194	30	Selenium	1.3	26	2	0.7	23	NoA
194	30	Silver	10.38	26	5	2.7	2.61	Yes
194	30	Sodium	369	5	4	340		NoE
194	30	Technetium-99	0.1	2	2	2.8	101	NoAB
194	30	Thallium	0.23	5	2	0.34	0.368	NoAB
194	30	Thorium-228	1.04	2	2	1.6		NoB
194	30	Thorium-230	1.17	2	2	1.4	4.1	NoAB
194	30	Thorium-232	1.05	2	2	1.5		NoB
194	30	Total PAH	0.0185	2	2		0.0197	NoA
194	30	Uranium	3.23	23	2	4.6	13.8	NoAB
194	30	Uranium-234	0.87	2	2	1.2	5.47	NoAB
194	30	Uranium-235	0.05	2	2	0.06	0.122	NoAB
194	30	Uranium-238	1.08	2	2	1.2	0.517	NoB
194	30	Vanadium	37	5	5	37	0.0365	Yes
194	30	Zinc	47	26	26	60	1380	NoAB
194	31	Alpha activity	31.9	1	1			NoC
194	31	Aluminum	4380	1	1	12000	4410	NoAB
194	31	Americium-241	0.008	2	2		1.5	NoA
194	31	Barium	41.7	1	1	170	140	NoAB
194	31	Beta activity	20.8	1	1			NoC
194	31	Calcium	2400	1	1	6100		NoBE

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
194	31	Cesium-137	0.57	2	2	0.28	0.0267	Yes
194	31	Chromium	8.26	1	1	43	15.6	NoAB
194	31	Cobalt-60	0.00458	1	1		0.00547	NoA
194	31	Copper	6.47	1	1	25	184	NoAB
194	31	Di-n-butyl phthalate	12	1	1			NoC
194	31	Neptunium-237	0.00681	2	2		0.0839	NoA
194	31	Nickel	7.41	1	1	22	10.4	NoAB
194	31	Plutonium-238	0.006	2	2		3.21	NoA
194	31	Plutonium-239/240	0.012	2	2		3.15	NoA
194	31	Technetium-99	0.494	2	2	2.8	101	NoAB
194	31	Thorium-228	0.87	2	2	1.6		NoB
194	31	Thorium-230	1	2	2	1.4	4.1	NoAB
194	31	Thorium-232	0.82	2	2	1.5		NoB
194	31	Uranium	5.15	1	1	4.6	13.8	NoA
194	31	Uranium-234	1.29	1	1	1.2	5.47	NoA
194	31	Uranium-235	0.09	4	4	0.06	0.122	NoA
194	31	Uranium-238	1.72	1	1	1.2	0.517	Yes
194	31	Vanadium	11.6	1	1	37	0.0365	NoB
194	31	Zinc	134	1	1	60	1380	NoA
195	1	Alpha activity	34.2	2	2			NoC
195	1	Aluminum	9020	3	3	12000	4410	NoB
195	1	Americium-241	0.0017	2	2		1.5	NoA
195	1	Antimony	0.27	3	2	0.21	0.552	NoA
195	1	Arsenic	16.88	23	6	7.9	0.238	Yes
195	1	Barium	108	3	3	170	140	NoAB
195	1	Beryllium	0.49	3	3	0.69	0.00567	NoB
195	1	Beta activity	35.9	2	2			NoC
195	1	Cadmium	0.13	3	3	0.21	0.811	NoAB
195	1	Calcium	6880	3	3	6100		NoE
195	1	Cesium-137	0.44	2	2	0.28	0.0267	Yes
195	1	Chromium	63.27	23	13	43	15.6	Yes
195	1	Cobalt	8.4	3	3	13	1.37	NoB
195	1	Copper	30.72	23	4	25	184	NoA
195	1	Fluoranthene	0.062	1	1		109	NoA
195	1	Iron	22051.09	23	23	28000	3220	NoB
195	1	Lead	20.64	23	22	23	400	NoAB
195	1	Magnesium	1470	3	3	2100		NoBE
195	1	Manganese	633.27	23	23	820	419	NoB
195	1	Mercury	0.0294	23	3	0.13	0.213	NoAB
195	1	Molybdenum	0.55	23	3		23	NoA
195	1	Neptunium-237	0.0003	2	2		0.0839	NoA
195	1	Nickel	99.99	23	9	22	10.4	Yes
195	1	Plutonium-238	0.011	2	2		3.21	NoA
195	1	Plutonium-239/240	0.016	2	2		3.15	NoA
195	1	Pyrene	0.048	1	1		81.2	NoA
195	1	Selenium	1.3	23	3	0.7	23	NoA
195	1	Silver	9.37	23	4	2.7	2.61	Yes
195	1	Sodium	139	3	3	340		NoBE
195	1	Technetium-99	0.21	2	2	2.8	101	NoAB
195	1	Thallium	0.42	3	2	0.34	0.368	Yes
195	1	Thorium-228	0.96	2	2	1.6		NoB
195	1	Thorium-230	0.96	2	2	1.4	4.1	NoAB
195	1	Thorium-232	0.94	2	2	1.5		NoB
195	1	Total PAH	0.02	2	2		0.0197	Yes
195	1	Uranium	3.13	23	3	4.6	13.8	NoAB
195	1	Uranium-234	0.94	2	2	1.2	5.47	NoAB
195	1	Uranium-235	0.044	2	2	0.06	0.122	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	1	Uranium-238	1.04	2	2	1.2	0.517	NoB
195	1	Vanadium	26	3	3	37	0.0365	NoB
195	1	Zinc	42.5	23	23	60	1380	NoAB
195	2	Alpha activity	24.2	2	2			NoC
195	2	Aluminum	8470	2	2	12000	4410	NoB
195	2	Americium-241	0.0109	2	2		1.5	NoA
195	2	Antimony	0.31	2	2	0.21	0.552	NoA
195	2	Arsenic	7.77	26	7	7.9	0.238	NoB
195	2	Barium	95.3	2	2	170	140	NoAB
195	2	Beryllium	0.38	2	2	0.69	0.00567	NoB
195	2	Beta activity	29	2	2			NoC
195	2	Cadmium	0.049	2	2	0.21	0.811	NoAB
195	2	Calcium	4460	2	2	6100		NoBE
195	2	Cesium-137	0.26	2	2	0.28	0.0267	NoB
195	2	Chromium	57.83	26	14	43	15.6	Yes
195	2	Cobalt	5.9	2	2	13	1.37	NoB
195	2	Copper	31.18	26	5	25	184	NoA
195	2	Iron	12600	26	26	28000	3220	NoB
195	2	Lead	18.1	26	24	23	400	NoAB
195	2	Magnesium	1970	2	2	2100		NoBE
195	2	Manganese	583	26	26	820	419	NoB
195	2	Mercury	0.0319	26	2	0.13	0.213	NoAB
195	2	Molybdenum	5.6	26	3		23	NoA
195	2	Neptunium-237	-0.0013	2	2		0.0839	NoA
195	2	Nickel	7.6	26	2	22	10.4	NoAB
195	2	Plutonium-238	0.0103	2	2		3.21	NoA
195	2	Plutonium-239/240	0.0134	2	2		3.15	NoA
195	2	Selenium	1.2	26	2	0.7	23	NoA
195	2	Silver	9.48	26	3	2.7	2.61	Yes
195	2	Sodium	57.3	2	2	340		NoBE
195	2	Technetium-99	0.22	2	2	2.8	101	NoAB
195	2	Thallium	0.075	1	1	0.34	0.368	NoAB
195	2	Thorium-228	0.97	2	2	1.6		NoB
195	2	Thorium-230	0.94	2	2	1.4	4.1	NoAB
195	2	Thorium-232	0.92	2	2	1.5		NoB
195	2	Total PAH	0.0268	2	2		0.0197	Yes
195	2	Uranium	9.09	26	3	4.6	13.8	NoA
195	2	Uranium-234	0.735	2	2	1.2	5.47	NoAB
195	2	Uranium-235	0.047	2	2	0.06	0.122	NoAB
195	2	Uranium-238	0.91	2	2	1.2	0.517	NoB
195	2	Vanadium	21.5	2	2	37	0.0365	NoB
195	2	Zinc	39.51	26	26	60	1380	NoAB
195	3	Alpha activity	19.9	2	2			NoC
195	3	Aluminum	9510	2	2	12000	4410	NoB
195	3	Americium-241	0.006	2	2		1.5	NoA
195	3	Antimony	0.3	2	2	0.21	0.552	NoA
195	3	Arsenic	11.08	25	6	7.9	0.238	Yes
195	3	Barium	104	2	2	170	140	NoAB
195	3	Beryllium	0.33	2	2	0.69	0.00567	NoB
195	3	Beta activity	28.2	2	2			NoC
195	3	Cadmium	0.041	1	1	0.21	0.811	NoAB
195	3	Calcium	4390	2	2	6100		NoBE
195	3	Cesium-137	0.27	2	2	0.28	0.0267	NoB
195	3	Chromium	55.47	25	14	43	15.6	Yes
195	3	Cobalt	6.5	2	2	13	1.37	NoB
195	3	Copper	21.7	25	2	25	184	NoAB
195	3	Fluoranthene	0.077	1	1		109	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	3	Iron	19200	25	25	28000	3220	NoB
195	3	Lead	17.55	25	22	23	400	NoAB
195	3	Magnesium	1610	2	2	2100		NoBE
195	3	Manganese	1136.85	25	25	820	419	Yes
195	3	Mercury	0.0313	25	2	0.13	0.213	NoAB
195	3	Molybdenum	0.8	25	2		23	NoA
195	3	Neptunium-237	0.016	2	2		0.0839	NoA
195	3	Nickel	102.36	25	6	22	10.4	Yes
195	3	Plutonium-238	0.008	2	2		3.21	NoA
195	3	Plutonium-239/240	0.0134	2	2		3.15	NoA
195	3	Pyrene	0.067	1	1		81.2	NoA
195	3	Selenium	0.15	25	2	0.7	23	NoAB
195	3	Silver	0.059	25	2	2.7	2.61	NoAB
195	3	Sodium	47.9	2	2	340		NoBE
195	3	Technetium-99	0.25	2	2	2.8	101	NoAB
195	3	Thorium-228	0.88	2	2	1.6		NoB
195	3	Thorium-230	0.96	2	2	1.4	4.1	NoAB
195	3	Thorium-232	0.84	2	2	1.5		NoB
195	3	Total PAH	0.0406	2	2		0.0197	Yes
195	3	Uranium	3.04	25	2	4.6	13.8	NoAB
195	3	Uranium-234	0.841	2	2	1.2	5.47	NoAB
195	3	Uranium-235	0.054	2	2	0.06	0.122	NoAB
195	3	Uranium-238	1.01	2	2	1.2	0.517	NoB
195	3	Vanadium	36.4	2	2	37	0.0365	NoB
195	3	Zinc	42.13	25	25	60	1380	NoAB
195	4	Alpha activity	28.3	2	2			NoC
195	4	Aluminum	9800	4	4	12000	4410	NoB
195	4	Americium-241	0.012	2	2		1.5	NoA
195	4	Antimony	0.41	4	4	0.21	0.552	NoA
195	4	Arsenic	10.93	36	16	7.9	0.238	Yes
195	4	Barium	140	4	4	170	140	NoB
195	4	Beryllium	0.56	4	4	0.69	0.00567	NoB
195	4	Beta activity	34.9	2	2			NoC
195	4	Cadmium	0.076	4	4	0.21	0.811	NoAB
195	4	Calcium	12200	4	4	6100		NoE
195	4	Cesium-137	0.263	2	2	0.28	0.0267	NoB
195	4	Chromium	57.79	36	22	43	15.6	Yes
195	4	Cobalt	5.9	4	4	13	1.37	NoB
195	4	Copper	20.03	36	6	25	184	NoAB
195	4	Iron	20570.19	36	36	28000	3220	NoB
195	4	Lead	18.19	36	31	23	400	NoAB
195	4	Magnesium	3760	4	4	2100		NoE
195	4	Manganese	532.03	36	34	820	419	NoB
195	4	Mercury	0.0263	36	4	0.13	0.213	NoAB
195	4	Molybdenum	0.63	36	4		23	NoA
195	4	Neptunium-237	0.009	2	2		0.0839	NoA
195	4	Nickel	86.9	36	7	22	10.4	Yes
195	4	Plutonium-238	0.018	2	2		3.21	NoA
195	4	Plutonium-239/240	0.019	2	2		3.15	NoA
195	4	Selenium	1.4	36	4	0.7	23	NoA
195	4	Silver	8.8	36	5	2.7	2.61	Yes
195	4	Sodium	362	4	4	340		NoE
195	4	Technetium-99	0.008	2	2	2.8	101	NoAB
195	4	Thallium	0.42	3	2	0.34	0.368	Yes
195	4	Thorium-228	0.92	2	2	1.6		NoB
195	4	Thorium-230	1	2	2	1.4	4.1	NoAB
195	4	Thorium-232	0.91	2	2	1.5		NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	4	Total PAH	0.011	1	1		0.0197	NoA
195	4	Uranium	3.14	36	4	4.6	13.8	NoAB
195	4	Uranium-234	0.84	2	2	1.2	5.47	NoAB
195	4	Uranium-235	0.025	2	2	0.06	0.122	NoAB
195	4	Uranium-238	1.05	2	2	1.2	0.517	NoB
195	4	Vanadium	25.8	4	4	37	0.0365	NoB
195	4	Zinc	187.73	36	36	60	1380	NoA
195	5	Alpha activity	33.6	3	3			NoC
195	5	Aluminum	9320	2	2	12000	4410	NoB
195	5	Americium-241	0.012	3	3		1.5	NoA
195	5	Antimony	0.49	3	3	0.21	0.552	NoA
195	5	Arsenic	8.8	25	8	7.9	0.238	Yes
195	5	Barium	104	2	2	170	140	NoAB
195	5	Beryllium	0.51	2	2	0.69	0.00567	NoB
195	5	Beta activity	28.4	3	3			NoC
195	5	Bis(2-ethylhexyl)phthalate	0.31	3	2			NoC
195	5	Cadmium	0.12	2	2	0.21	0.811	NoAB
195	5	Calcium	5670	2	2	6100		NoBE
195	5	Cesium-137	0.341	3	3	0.28	0.0267	Yes
195	5	Chromium	57.41	25	14	43	15.6	Yes
195	5	Cobalt	6.5	2	2	13	1.37	NoB
195	5	Copper	9.9	25	2	25	184	NoAB
195	5	Fluoranthene	0.059	3	3		109	NoA
195	5	Iron	19818.41	25	25	28000	3220	NoB
195	5	Lead	18.27	25	19	23	400	NoAB
195	5	Magnesium	1370	2	2	2100		NoBE
195	5	Manganese	409	25	24	820	419	NoAB
195	5	Mercury	0.0154	25	2	0.13	0.213	NoAB
195	5	Molybdenum	0.72	25	2		23	NoA
195	5	Neptunium-237	0.005	3	3		0.0839	NoA
195	5	Nickel	81.1	25	3	22	10.4	Yes
195	5	Phenanthrene	0.043	2	1			NoC
195	5	Plutonium-238	0.014	3	3		3.21	NoA
195	5	Plutonium-239/240	0.02	3	3		3.15	NoA
195	5	Pyrene	0.047	3	3		81.2	NoA
195	5	Selenium	1.3	25	2	0.7	23	NoA
195	5	Silver	8.41	25	3	2.7	2.61	Yes
195	5	Sodium	69.1	2	2	340		NoBE
195	5	Technetium-99	-0.13	3	3	2.8	101	NoAB
195	5	Thallium	0.55	2	2	0.34	0.368	Yes
195	5	Thorium-228	0.88	3	3	1.6		NoB
195	5	Thorium-230	0.95	3	3	1.4	4.1	NoAB
195	5	Thorium-232	0.88	3	3	1.5		NoB
195	5	Total PAH	0.024	3	3		0.0197	Yes
195	5	Uranium	3.05	25	3	4.6	13.8	NoAB
195	5	Uranium-234	0.8	3	3	1.2	5.47	NoAB
195	5	Uranium-235	0.042	3	3	0.06	0.122	NoAB
195	5	Uranium-238	1.02	3	3	1.2	0.517	NoB
195	5	Vanadium	26.9	2	2	37	0.0365	NoB
195	5	Zinc	54.64	25	25	60	1380	NoAB
195	6	Alpha activity	27.7	2	2			NoC
195	6	Aluminum	8130	2	2	12000	4410	NoB
195	6	Americium-241	0.009	2	2		1.5	NoA
195	6	Anthracene	0.052	1	1		747	NoA
195	6	Antimony	0.26	2	2	0.21	0.552	NoA
195	6	Arsenic	10.49	26	7	7.9	0.238	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	6	Barium	94.9	2	2	170	140	NoAB
195	6	Benzo(ghi)perylene	0.11	1	1			NoC
195	6	Beryllium	0.48	2	2	0.69	0.00567	NoB
195	6	Beta activity	32.5	2	2			NoC
195	6	Cadmium	0.11	2	2	0.21	0.811	NoAB
195	6	Calcium	9840	2	2	6100		NoE
195	6	Cesium-137	0.298	2	2	0.28	0.0267	Yes
195	6	Chromium	59.56	26	17	43	15.6	Yes
195	6	Cobalt	6.1	2	2	13	1.37	NoB
195	6	Copper	10	26	2	25	184	NoAB
195	6	Fluoranthene	0.46	1	1		109	NoA
195	6	Iron	18937.26	26	26	28000	3220	NoB
195	6	Lead	66.05	26	22	23	400	NoA
195	6	Magnesium	1790	2	2	2100		NoBE
195	6	Manganese	337.55	26	26	820	419	NoAB
195	6	Mercury	0.0365	26	2	0.13	0.213	NoAB
195	6	Molybdenum	0.52	26	2		23	NoA
195	6	Neptunium-237	0.002	2	2		0.0839	NoA
195	6	Nickel	98.09	26	6	22	10.4	Yes
195	6	Phenanthrene	0.18	1	1			NoC
195	6	Plutonium-238	0.018	2	2		3.21	NoA
195	6	Plutonium-239/240	0.0057	2	2		3.15	NoA
195	6	Pyrene	0.35	1	1		81.2	NoA
195	6	Selenium	1.2	26	2	0.7	23	NoA
195	6	Silver	10.01	26	3	2.7	2.61	Yes
195	6	Sodium	48.5	2	2	340		NoBE
195	6	Technetium-99	0.15	2	2	2.8	101	NoAB
195	6	Thorium-228	1.05	2	2	1.6		NoB
195	6	Thorium-230	1.16	2	2	1.4	4.1	NoAB
195	6	Thorium-232	1	2	2	1.5		NoB
195	6	Total PAH	0.2477	2	2		0.0197	Yes
195	6	Uranium	2.81	26	2	4.6	13.8	NoAB
195	6	Uranium-234	0.746	2	2	1.2	5.47	NoAB
195	6	Uranium-235	0.05	2	2	0.06	0.122	NoAB
195	6	Uranium-238	0.94	2	2	1.2	0.517	NoB
195	6	Vanadium	24	2	2	37	0.0365	NoB
195	6	Zinc	53.38	26	26	60	1380	NoAB
195	7	Alpha activity	31.7	2	2			NoC
195	7	Aluminum	8930	2	2	12000	4410	NoB
195	7	Americium-241	0.014	2	2		1.5	NoA
195	7	Antimony	0.49	2	2	0.21	0.552	NoA
195	7	Arsenic	8.49	24	5	7.9	0.238	Yes
195	7	Barium	112	2	2	170	140	NoAB
195	7	Beryllium	0.62	2	2	0.69	0.00567	NoB
195	7	Beta activity	31.3	2	2			NoC
195	7	Cadmium	0.089	2	2	0.21	0.811	NoAB
195	7	Calcium	5530	2	2	6100		NoBE
195	7	Cesium-137	0.222	2	2	0.28	0.0267	NoB
195	7	Chromium	61.47	24	16	43	15.6	Yes
195	7	Cobalt	13.9	2	2	13	1.37	Yes
195	7	Copper	11	24	2	25	184	NoAB
195	7	Iron	19500	24	24	28000	3220	NoB
195	7	Lead	18.22	24	20	23	400	NoAB
195	7	Magnesium	1320	2	2	2100		NoBE
195	7	Manganese	704	24	24	820	419	NoB
195	7	Mercury	0.0277	24	2	0.13	0.213	NoAB
195	7	Molybdenum	0.69	24	2		23	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	7	Neptunium-237	-0.001	2	2		0.0839	NoA
195	7	Nickel	12.7	24	2	22	10.4	NoB
195	7	Plutonium-238	0.014	2	2		3.21	NoA
195	7	Plutonium-239/240	0.0118	2	2		3.15	NoA
195	7	Selenium	1.4	24	2	0.7	23	NoA
195	7	Silver	8.06	24	3	2.7	2.61	Yes
195	7	Sodium	59.5	2	2	340		NoBE
195	7	Technetium-99	0.06	2	2	2.8	101	NoAB
195	7	Thallium	0.15	2	2	0.34	0.368	NoAB
195	7	Thorium-228	0.89	2	2	1.6		NoB
195	7	Thorium-230	0.91	2	2	1.4	4.1	NoAB
195	7	Thorium-232	0.92	2	2	1.5		NoB
195	7	Total PAH	0.014	1	1		0.0197	NoA
195	7	Uranium	2.96	24	2	4.6	13.8	NoAB
195	7	Uranium-234	0.86	2	2	1.2	5.47	NoAB
195	7	Uranium-235	0.048	2	2	0.06	0.122	NoAB
195	7	Uranium-238	0.99	2	2	1.2	0.517	NoB
195	7	Vanadium	34.7	2	2	37	0.0365	NoB
195	7	Zinc	39.44	24	24	60	1380	NoAB
195	8	Alpha activity	30	2	2			NoC
195	8	Aluminum	9810	2	2	12000	4410	NoB
195	8	Americium-241	0.012	2	2		1.5	NoA
195	8	Antimony	0.27	2	2	0.21	0.552	NoA
195	8	Arsenic	13.8	24	8	7.9	0.238	Yes
195	8	Barium	153	2	2	170	140	NoB
195	8	Benzo(ghi)perylene	0.084	1	1			NoC
195	8	Beryllium	0.74	2	2	0.69	0.00567	Yes
195	8	Beta activity	37.3	2	2			NoC
195	8	Bis(2-ethylhexyl)phthalate	0.11	1	1			NoC
195	8	Cadmium	0.14	2	2	0.21	0.811	NoAB
195	8	Calcium	5190	2	2	6100		NoBE
195	8	Cesium-137	0.37	2	2	0.28	0.0267	Yes
195	8	Chromium	67.93	24	16	43	15.6	Yes
195	8	Cobalt	18.2	2	2	13	1.37	Yes
195	8	Copper	26.94	24	3	25	184	NoA
195	8	Fluoranthene	0.4	2	2		109	NoA
195	8	Iron	24100	24	24	28000	3220	NoB
195	8	Lead	20	24	17	23	400	NoAB
195	8	Magnesium	1700	2	2	2100		NoBE
195	8	Manganese	1180	24	23	820	419	Yes
195	8	Mercury	0.0256	24	2	0.13	0.213	NoAB
195	8	Molybdenum	0.96	24	2		23	NoA
195	8	Neptunium-237	0.016	2	2		0.0839	NoA
195	8	Nickel	91.1	24	5	22	10.4	Yes
195	8	Phenanthrene	0.15	2	2			NoC
195	8	Plutonium-238	0.021	2	2		3.21	NoA
195	8	Plutonium-239/240	0.0051	2	2		3.15	NoA
195	8	Pyrene	0.33	2	2		81.2	NoA
195	8	Selenium	1.8	24	2	0.7	23	NoA
195	8	Silver	8.51	24	2	2.7	2.61	Yes
195	8	Sodium	90.5	2	2	340		NoBE
195	8	Technetium-99	0.06	2	2	2.8	101	NoAB
195	8	Thallium	0.23	2	2	0.34	0.368	NoAB
195	8	Thorium-228	0.88	2	2	1.6		NoB
195	8	Thorium-230	1.03	2	2	1.4	4.1	NoAB
195	8	Thorium-232	0.92	2	2	1.5		NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	8	Total PAH	0.21558	2	2		0.0197	Yes
195	8	Uranium	3.13	24	2	4.6	13.8	NoAB
195	8	Uranium-234	0.79	2	2	1.2	5.47	NoAB
195	8	Uranium-235	0.047	2	2	0.06	0.122	NoAB
195	8	Uranium-238	1.04	2	2	1.2	0.517	NoB
195	8	Vanadium	40.4	2	2	37	0.0365	Yes
195	8	Zinc	49.96	24	23	60	1380	NoAB
195	9	Alpha activity	24.4	2	2			NoC
195	9	Aluminum	9270	2	2	12000	4410	NoB
195	9	Americium-241	0.0023	2	2		1.5	NoA
195	9	Antimony	0.15	2	2	0.21	0.552	NoAB
195	9	Arsenic	10.33	19	8	7.9	0.238	Yes
195	9	Barium	120	2	2	170	140	NoAB
195	9	Beryllium	0.31	2	2	0.69	0.00567	NoB
195	9	Beta activity	26.6	2	2			NoC
195	9	Bis(2-ethylhexyl)phthalate	0.2	1	1			NoC
195	9	Cadmium	0.088	2	2	0.21	0.811	NoAB
195	9	Calcium	3720	2	2	6100		NoBE
195	9	Cesium-137	0.167	2	2	0.28	0.0267	NoB
195	9	Chromium	60.8	19	14	43	15.6	Yes
195	9	Cobalt	7.1	2	2	13	1.37	NoB
195	9	Copper	9.6	19	2	25	184	NoAB
195	9	Iron	15000	19	19	28000	3220	NoB
195	9	Lead	18	19	14	23	400	NoAB
195	9	Magnesium	1570	2	2	2100		NoBE
195	9	Manganese	360	19	19	820	419	NoAB
195	9	Mercury	0.0348	19	2	0.13	0.213	NoAB
195	9	Molybdenum	0.58	19	2		23	NoA
195	9	Neptunium-237	0.004	2	2		0.0839	NoA
195	9	Nickel	91.18	19	4	22	10.4	Yes
195	9	Plutonium-238	0.017	2	2		3.21	NoA
195	9	Plutonium-239/240	0.024	2	2		3.15	NoA
195	9	Selenium	0.27	19	2	0.7	23	NoAB
195	9	Silver	9.33	19	2	2.7	2.61	Yes
195	9	Sodium	40.2	2	2	340		NoBE
195	9	Technetium-99	0.35	2	2	2.8	101	NoAB
195	9	Thallium	0.2	2	2	0.34	0.368	NoAB
195	9	Thorium-228	0.85	2	2	1.6		NoB
195	9	Thorium-230	0.92	2	2	1.4	4.1	NoAB
195	9	Thorium-232	0.83	2	2	1.5		NoB
195	9	Total PAH	0.0089	1	1		0.0197	NoA
195	9	Uranium	2.44	19	2	4.6	13.8	NoAB
195	9	Uranium-234	0.726	2	2	1.2	5.47	NoAB
195	9	Uranium-235	0.038	2	2	0.06	0.122	NoAB
195	9	Uranium-238	0.81	2	2	1.2	0.517	NoB
195	9	Vanadium	34	2	2	37	0.0365	NoB
195	9	Zinc	47.52	19	19	60	1380	NoAB
195	10	Alpha activity	26.5	2	2			NoC
195	10	Aluminum	8450	2	2	12000	4410	NoB
195	10	Americium-241	0.0083	2	2		1.5	NoA
195	10	Antimony	0.24	1	1	0.21	0.552	NoA
195	10	Arsenic	9.83	26	10	7.9	0.238	Yes
195	10	Barium	91.9	2	2	170	140	NoAB
195	10	Beryllium	0.49	2	2	0.69	0.00567	NoB
195	10	Beta activity	27.2	2	2			NoC
195	10	Cadmium	0.04	2	2	0.21	0.811	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	10	Calcium	7400	2	2	6100		NoE
195	10	Cesium-137	0.275	2	2	0.28	0.0267	NoB
195	10	Chromium	54.96	26	19	43	15.6	Yes
195	10	Cobalt	6.7	2	2	13	1.37	NoB
195	10	Copper	29.72	26	4	25	184	NoA
195	10	Iron	18329.15	26	26	28000	3220	NoB
195	10	Lead	34.21	26	23	23	400	NoA
195	10	Magnesium	1260	2	2	2100		NoBE
195	10	Manganese	892.32	26	25	820	419	Yes
195	10	Mercury	0.0248	26	2	0.13	0.213	NoAB
195	10	Molybdenum	0.4	26	2		23	NoA
195	10	Neptunium-237	0.006	2	2		0.0839	NoA
195	10	Nickel	79.83	26	4	22	10.4	Yes
195	10	Plutonium-238	0.017	2	2		3.21	NoA
195	10	Plutonium-239/240	0.019	2	2		3.15	NoA
195	10	Selenium	0.1	12	1	0.7	23	NoAB
195	10	Silver	13.11	26	4	2.7	2.61	Yes
195	10	Sodium	45.5	2	2	340		NoBE
195	10	Technetium-99	0.45	2	2	2.8	101	NoAB
195	10	Thallium	0.36	2	2	0.34	0.368	NoA
195	10	Thorium-228	0.81	2	2	1.6		NoB
195	10	Thorium-230	0.92	2	2	1.4	4.1	NoAB
195	10	Thorium-232	0.9	2	2	1.5		NoB
195	10	Total PAH	0.0056	2	2		0.0197	NoA
195	10	Uranium	2.87	26	2	4.6	13.8	NoAB
195	10	Uranium-234	0.81	2	2	1.2	5.47	NoAB
195	10	Uranium-235	0.048	2	2	0.06	0.122	NoAB
195	10	Uranium-238	0.96	2	2	1.2	0.517	NoB
195	10	Vanadium	29.3	2	2	37	0.0365	NoB
195	10	Zinc	45.96	26	26	60	1380	NoAB
195	11	Alpha activity	25.5	2	2			NoC
195	11	Aluminum	28100	2	2	12000	4410	Yes
195	11	Americium-241	0.0108	2	2		1.5	NoA
195	11	Antimony	0.1	2	2	0.21	0.552	NoAB
195	11	Arsenic	24.6	24	8	7.9	0.238	Yes
195	11	Barium	453	2	2	170	140	Yes
195	11	Beryllium	0.12	2	2	0.69	0.00567	NoB
195	11	Beta activity	26.2	2	2			NoC
195	11	Cadmium	0.32	1	1	0.21	0.811	NoA
195	11	Calcium	3270	2	2	6100		NoBE
195	11	Cesium-137	0.325	2	2	0.28	0.0267	Yes
195	11	Chromium	65.4	24	17	43	15.6	Yes
195	11	Cobalt	27.7	2	2	13	1.37	Yes
195	11	Copper	44.6	24	2	25	184	NoA
195	11	Iron	46000	24	24	28000	3220	Yes
195	11	Lead	19.62	24	19	23	400	NoAB
195	11	Magnesium	4000	2	2	2100		NoE
195	11	Manganese	1270	24	23	820	419	Yes
195	11	Mercury	0.03	24	2	0.13	0.213	NoAB
195	11	Molybdenum	2.3	24	2		23	NoA
195	11	Neptunium-237	0.0003	2	2		0.0839	NoA
195	11	Nickel	83.79	24	4	22	10.4	Yes
195	11	Plutonium-238	0.02	2	2		3.21	NoA
195	11	Plutonium-239/240	0.024	2	2		3.15	NoA
195	11	Selenium	0.83	24	2	0.7	23	NoA
195	11	Silver	8.26	24	3	2.7	2.61	Yes
195	11	Sodium	108	2	2	340		NoBE

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	11	Technetium-99	0.37	2	2	2.8	101	NoAB
195	11	Thallium	0.66	2	2	0.34	0.368	Yes
195	11	Thorium-228	0.86	2	2	1.6		NoB
195	11	Thorium-230	0.94	2	2	1.4	4.1	NoAB
195	11	Thorium-232	0.89	2	2	1.5		NoB
195	11	Total PAH	0.0409	1	1		0.0197	Yes
195	11	Uranium	8.4	24	2	4.6	13.8	NoA
195	11	Uranium-234	0.79	2	2	1.2	5.47	NoAB
195	11	Uranium-235	0.041	2	2	0.06	0.122	NoAB
195	11	Uranium-238	1.08	2	2	1.2	0.517	NoB
195	11	Vanadium	79.7	2	2	37	0.0365	Yes
195	11	Zinc	49.49	24	24	60	1380	NoAB
195	12	Alpha activity	26.7	3	3			NoC
195	12	Aluminum	8450	3	3	12000	4410	NoB
195	12	Americium-241	0.011	3	3		1.5	NoA
195	12	Antimony	0.51	3	3	0.21	0.552	NoA
195	12	Arsenic	11.5	33	6	7.9	0.238	Yes
195	12	Barium	128	3	3	170	140	NoAB
195	12	Beryllium	0.75	3	3	0.69	0.00567	Yes
195	12	Beta activity	34.1	3	3			NoC
195	12	Cadmium	0.098	3	3	0.21	0.811	NoAB
195	12	Calcium	3000	3	3	6100		NoBE
195	12	Cesium-137	0.216	3	3	0.28	0.0267	NoB
195	12	Chromium	74.38	33	20	43	15.6	Yes
195	12	Cobalt	9.3	3	3	13	1.37	NoB
195	12	Copper	26.45	33	6	25	184	NoA
195	12	Iron	20800	33	33	28000	3220	NoB
195	12	Lead	41.69	33	28	23	400	NoA
195	12	Magnesium	1290	3	3	2100		NoBE
195	12	Manganese	978.58	33	32	820	419	Yes
195	12	Mercury	0.0237	33	3	0.13	0.213	NoAB
195	12	Molybdenum	0.86	33	3		23	NoA
195	12	Neptunium-237	0.008	3	3		0.0839	NoA
195	12	Nickel	99.76	33	10	22	10.4	Yes
195	12	Plutonium-238	0.014	3	3		3.21	NoA
195	12	Plutonium-239/240	0.018	3	3		3.15	NoA
195	12	Selenium	1.7	33	3	0.7	23	NoA
195	12	Silver	0.056	33	3	2.7	2.61	NoAB
195	12	Sodium	60	3	3	340		NoBE
195	12	Technetium-99	0.23	3	3	2.8	101	NoAB
195	12	Thallium	0.24	3	3	0.34	0.368	NoAB
195	12	Thorium-228	1.09	3	3	1.6		NoB
195	12	Thorium-230	1.11	3	3	1.4	4.1	NoAB
195	12	Thorium-232	1.06	3	3	1.5		NoB
195	12	Total PAH	0.017	3	2		0.0197	NoA
195	12	Uranium	3.4	33	3	4.6	13.8	NoAB
195	12	Uranium-234	0.92	3	3	1.2	5.47	NoAB
195	12	Uranium-235	0.074	3	3	0.06	0.122	NoA
195	12	Uranium-238	1.13	3	3	1.2	0.517	NoB
195	12	Vanadium	42.4	3	3	37	0.0365	Yes
195	12	Zinc	57.56	33	33	60	1380	NoAB
195	13	Alpha activity	26.1	2	2			NoC
195	13	Aluminum	8610	2	2	12000	4410	NoB
195	13	Americium-241	0.0087	2	2		1.5	NoA
195	13	Antimony	0.33	2	2	0.21	0.552	NoA
195	13	Arsenic	9.12	28	10	7.9	0.238	Yes
195	13	Barium	97.8	2	2	170	140	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	13	Beryllium	0.2	2	2	0.69	0.00567	NoB
195	13	Beta activity	25.8	2	2			NoC
195	13	Bis(2-ethylhexyl)phthalate	0.11	1	1			NoC
195	13	Cadmium	0.072	1	1	0.21	0.811	NoAB
195	13	Calcium	6960	2	2	6100		NoE
195	13	Cesium-137	0.197	2	2	0.28	0.0267	NoB
195	13	Chromium	65.51	28	20	43	15.6	Yes
195	13	Cobalt	6.7	2	2	13	1.37	NoB
195	13	Copper	9	28	2	25	184	NoAB
195	13	Iron	16730.12	28	28	28000	3220	NoB
195	13	Lead	16.53	28	19	23	400	NoAB
195	13	Magnesium	1290	2	2	2100		NoBE
195	13	Manganese	429	28	27	820	419	NoB
195	13	Mercury	0.0273	28	2	0.13	0.213	NoAB
195	13	Molybdenum	0.62	28	2		23	NoA
195	13	Neptunium-237	0.012	2	2		0.0839	NoA
195	13	Nickel	86.4	28	3	22	10.4	Yes
195	13	Plutonium-238	0.014	2	2		3.21	NoA
195	13	Plutonium-239/240	0.0098	2	2		3.15	NoA
195	13	Selenium	0.15	28	2	0.7	23	NoAB
195	13	Silver	8.71	28	3	2.7	2.61	Yes
195	13	Sodium	42.5	2	2	340		NoBE
195	13	Technetium-99	0.42	2	2	2.8	101	NoAB
195	13	Thallium	0.14	2	2	0.34	0.368	NoAB
195	13	Thorium-228	0.88	2	2	1.6		NoB
195	13	Thorium-230	1.06	2	2	1.4	4.1	NoAB
195	13	Thorium-232	0.85	2	2	1.5		NoB
195	13	Total PAH	0.0094	1	1		0.0197	NoA
195	13	Uranium	2.54	28	2	4.6	13.8	NoAB
195	13	Uranium-234	0.711	2	2	1.2	5.47	NoAB
195	13	Uranium-235	0.054	2	2	0.06	0.122	NoAB
195	13	Uranium-238	0.84	2	2	1.2	0.517	NoB
195	13	Vanadium	30.4	2	2	37	0.0365	NoB
195	13	Zinc	60	28	28	60	1380	NoA
195	14	Alpha activity	26.7	2	2			NoC
195	14	Aluminum	8360	2	2	12000	4410	NoB
195	14	Americium-241	0.0126	2	2		1.5	NoA
195	14	Antimony	0.099	1	1	0.21	0.552	NoAB
195	14	Arsenic	10.39	30	12	7.9	0.238	Yes
195	14	Barium	109	2	2	170	140	NoAB
195	14	Beryllium	0.31	2	2	0.69	0.00567	NoB
195	14	Beta activity	28.5	2	2			NoC
195	14	Cadmium	0.053	1	1	0.21	0.811	NoAB
195	14	Calcium	2630	2	2	6100		NoBE
195	14	Cesium-137	0.249	2	2	0.28	0.0267	NoB
195	14	Chromium	59.44	30	15	43	15.6	Yes
195	14	Cobalt	7.3	2	2	13	1.37	NoB
195	14	Copper	9.8	30	2	25	184	NoAB
195	14	Iron	16200	30	30	28000	3220	NoB
195	14	Lead	23.39	30	21	23	400	NoA
195	14	Magnesium	1160	2	2	2100		NoBE
195	14	Manganese	581	30	30	820	419	NoB
195	14	Mercury	6.49	30	3	0.13	0.213	Yes
195	14	Molybdenum	0.76	30	2		23	NoA
195	14	Neptunium-237	0.01	2	2		0.0839	NoA
195	14	Nickel	82.18	30	7	22	10.4	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	14	Plutonium-238	0.025	2	2		3.21	NoA
195	14	Plutonium-239/240	0.025	2	2		3.15	NoA
195	14	Selenium	0.3	30	2	0.7	23	NoAB
195	14	Silver	8.87	30	3	2.7	2.61	Yes
195	14	Sodium	22.7	1	1	340		NoBE
195	14	Technetium-99	0.24	2	2	2.8	101	NoAB
195	14	Thallium	0.23	1	1	0.34	0.368	NoAB
195	14	Thorium-228	0.87	2	2	1.6		NoB
195	14	Thorium-230	0.92	2	2	1.4	4.1	NoAB
195	14	Thorium-232	0.9	2	2	1.5		NoB
195	14	Uranium	8.56	30	3	4.6	13.8	NoA
195	14	Uranium-234	0.677	2	2	1.2	5.47	NoAB
195	14	Uranium-235	0.038	2	2	0.06	0.122	NoAB
195	14	Uranium-238	0.92	2	2	1.2	0.517	NoB
195	14	Vanadium	35.5	2	2	37	0.0365	NoB
195	14	Zinc	41.18	30	30	60	1380	NoAB
195	15	Alpha activity	28.5	3	3			NoC
195	15	Aluminum	9680	2	2	12000	4410	NoB
195	15	Americium-241	0.0063	3	3		1.5	NoA
195	15	Antimony	0.3	2	2	0.21	0.552	NoA
195	15	Arsenic	9.15	29	6	7.9	0.238	Yes
195	15	Barium	109	2	2	170	140	NoAB
195	15	Beryllium	0.34	2	2	0.69	0.00567	NoB
195	15	Beta activity	27	3	3			NoC
195	15	Cadmium	0.064	1	1	0.21	0.811	NoAB
195	15	Calcium	8430	2	2	6100		NoE
195	15	Cesium-137	0.358	3	3	0.28	0.0267	Yes
195	15	Chromium	53.43	29	14	43	15.6	Yes
195	15	Cobalt	4.7	2	2	13	1.37	NoB
195	15	Copper	9.2	29	2	25	184	NoAB
195	15	Iron	13363.39	29	29	28000	3220	NoB
195	15	Lead	20.23	29	25	23	400	NoAB
195	15	Magnesium	1240	2	2	2100		NoBE
195	15	Manganese	485.3	29	29	820	419	NoB
195	15	Mercury	0.0354	29	2	0.13	0.213	NoAB
195	15	Molybdenum	0.34	29	2		23	NoA
195	15	Neptunium-237	0.003	3	3		0.0839	NoA
195	15	Nickel	9.5	29	2	22	10.4	NoAB
195	15	Plutonium-238	0.0085	3	3		3.21	NoA
195	15	Plutonium-239/240	0.018	3	3		3.15	NoA
195	15	Selenium	0.27	14	1	0.7	23	NoAB
195	15	Silver	0.05	29	2	2.7	2.61	NoAB
195	15	Sodium	34	2	2	340		NoBE
195	15	Technetium-99	-0.04	3	3	2.8	101	NoAB
195	15	Thallium	0.076	1	1	0.34	0.368	NoAB
195	15	Thorium-228	0.99	3	3	1.6		NoB
195	15	Thorium-230	0.99	3	3	1.4	4.1	NoAB
195	15	Thorium-232	1.02	3	3	1.5		NoB
195	15	Total PAH	0.0044	2	1		0.0197	NoA
195	15	Uranium	2.68	29	3	4.6	13.8	NoAB
195	15	Uranium-234	0.754	3	3	1.2	5.47	NoAB
195	15	Uranium-235	0.044	3	3	0.06	0.122	NoAB
195	15	Uranium-238	0.89	3	3	1.2	0.517	NoB
195	15	Vanadium	28.8	2	2	37	0.0365	NoB
195	15	Zinc	49.62	29	29	60	1380	NoAB
195	16	Alpha activity	30	3	3			NoC
195	16	Aluminum	4690	2	2	12000	4410	NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	16	Americium-241	0.012	3	3		1.5	NoA
195	16	Antimony	0.47	2	2	0.21	0.552	NoA
195	16	Arsenic	7.22	33	4	7.9	0.238	NoB
195	16	Barium	128	2	2	170	140	NoAB
195	16	Beryllium	0.2	2	2	0.69	0.00567	NoB
195	16	Beta activity	25.1	3	3			NoC
195	16	Cadmium	0.072	2	2	0.21	0.811	NoAB
195	16	Calcium	3610	2	2	6100		NoBE
195	16	Cesium-137	0.44	3	3	0.28	0.0267	Yes
195	16	Chromium	52.22	33	9	43	15.6	Yes
195	16	Cobalt	6.3	2	2	13	1.37	NoB
195	16	Copper	8.1	33	2	25	184	NoAB
195	16	Iron	12355.21	33	33	28000	3220	NoB
195	16	Lead	17.24	33	24	23	400	NoAB
195	16	Magnesium	723	2	2	2100		NoBE
195	16	Manganese	875	33	30	820	419	Yes
195	16	Mercury	8.43	33	3	0.13	0.213	Yes
195	16	Molybdenum	0.52	33	2		23	NoA
195	16	Neptunium-237	0.01	3	3		0.0839	NoA
195	16	Nickel	85.86	33	10	22	10.4	Yes
195	16	Plutonium-238	0.017	3	3		3.21	NoA
195	16	Plutonium-239/240	0.025	3	3		3.15	NoA
195	16	Selenium	3.06	33	2	0.7	23	NoA
195	16	Silver	0.044	33	2	2.7	2.61	NoAB
195	16	Sodium	51.8	2	2	340		NoBE
195	16	Technetium-99	0.4	3	3	2.8	101	NoAB
195	16	Thallium	0.29	1	1	0.34	0.368	NoAB
195	16	Thorium-228	0.92	3	3	1.6		NoB
195	16	Thorium-230	0.92	3	3	1.4	4.1	NoAB
195	16	Thorium-232	0.93	3	3	1.5		NoB
195	16	Uranium	2.55	34	3	4.6	13.8	NoAB
195	16	Uranium-234	0.79	3	3	1.2	5.47	NoAB
195	16	Uranium-235	0.054	3	3	0.06	0.122	NoAB
195	16	Uranium-238	0.85	3	3	1.2	0.517	NoB
195	16	Vanadium	16.3	2	2	37	0.0365	NoB
195	16	Zinc	38.84	33	32	60	1380	NoAB
195	17	Alpha activity	30.4	2	2			NoC
195	17	Aluminum	7130	4	4	12000	4410	NoB
195	17	Americium-241	0.04	2	2		1.5	NoA
195	17	Antimony	0.39	4	4	0.21	0.552	NoA
195	17	Arsenic	9.36	58	12	7.9	0.238	Yes
195	17	Barium	106	4	4	170	140	NoAB
195	17	Benzo(ghi)perylene	0.13	1	1			NoC
195	17	Beryllium	0.46	4	4	0.69	0.00567	NoB
195	17	Beta activity	30.5	2	2			NoC
195	17	Bis(2-ethylhexyl)phthalate	0.087	1	1			NoC
195	17	Cadmium	0.2	4	4	0.21	0.811	NoAB
195	17	Calcium	80000	4	4	6100		NoE
195	17	Cesium-137	0.122	2	2	0.28	0.0267	NoB
195	17	Chromium	120.84	58	29	43	15.6	Yes
195	17	Cobalt	7.4	4	4	13	1.37	NoB
195	17	Copper	28.08	58	11	25	184	NoA
195	17	Fluoranthene	0.39	1	1		109	NoA
195	17	Iron	16053.85	58	58	28000	3220	NoB
195	17	Lead	33.5	58	55	23	400	NoA
195	17	Magnesium	2970	4	4	2100		NoE

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
195	17	Manganese	1417.71	58	58	820	419	Yes
195	17	Mercury	7.24	58	5	0.13	0.213	Yes
195	17	Molybdenum	0.99	58	4		23	NoA
195	17	Neptunium-237	0.04	2	2		0.0839	NoA
195	17	Nickel	70.86	58	11	22	10.4	Yes
195	17	PCB, Total	0.74	24	1		0.0648	Yes
195	17	Phenanthrene	0.23	1	1			NoC
195	17	Plutonium-238	0.013	2	2		3.21	NoA
195	17	Plutonium-239/240	0.166	2	2		3.15	NoA
195	17	Pyrene	0.33	1	1		81.2	NoA
195	17	Selenium	1.4	58	4	0.7	23	NoA
195	17	Silver	12.38	58	6	2.7	2.61	Yes
195	17	Sodium	130	4	4	340		NoBE
195	17	Technetium-99	2.43	2	2	2.8	101	NoAB
195	17	Thallium	0.69	4	4	0.34	0.368	Yes
195	17	Thorium-228	0.9	2	2	1.6		NoB
195	17	Thorium-230	1.17	2	2	1.4	4.1	NoAB
195	17	Thorium-232	0.84	2	2	1.5		NoB
195	17	Total PAH	0.3159	2	2		0.0197	Yes
195	17	Uranium	12.02	58	9	4.6	13.8	NoA
195	17	Uranium-234	1.7	2	2	1.2	5.47	NoA
195	17	Uranium-235	0.132	2	2	0.06	0.122	Yes
195	17	Uranium-238	2.48	2	2	1.2	0.517	Yes
195	17	Vanadium	21.2	4	4	37	0.0365	NoB
195	17	Zinc	143	58	58	60	1380	NoA
196	1	Alpha activity	29.2	48	48			NoC
196	1	Aluminum	17900	48	48	12000	4410	Yes
196	1	Americium-241	0.008	2	2		1.5	NoA
196	1	Antimony	121	48	16	0.21	0.552	Yes
196	1	Arsenic	10.5	48	48	7.9	0.238	Yes
196	1	Barium	389	48	48	170	140	Yes
196	1	Beryllium	113	48	48	0.69	0.00567	Yes
196	1	Beta activity	27.5	2	2			NoC
196	1	Bis(2-ethylhexyl)phthalate	0.12	1	1			NoC
196	1	Cadmium	116	48	22	0.21	0.811	Yes
196	1	Calcium	223000	48	48	6100		NoE
196	1	Cesium-137	0	2	2	0.28	0.0267	NoAB
196	1	Chromium	112	48	48	43	15.6	Yes
196	1	Cobalt	112	48	48	13	1.37	Yes
196	1	Copper	112	48	48	25	184	NoA
196	1	Iron	29600	48	48	28000	3220	Yes
196	1	Lead	116	48	47	23	400	NoA
196	1	Magnesium	11300	48	48	2100		NoE
196	1	Manganese	1980	48	48	820	419	Yes
196	1	Mercury	0.093	48	48	0.13	0.213	NoAB
196	1	Molybdenum	1.3	2	2		23	NoA
196	1	Neptunium-237	0.311	2	2		0.0839	Yes
196	1	Nickel	587	48	48	22	10.4	Yes
196	1	Plutonium-238	0.013	2	2		3.21	NoA
196	1	Plutonium-239/240	0.032	2	2		3.15	NoA
196	1	Selenium	3.93	48	36	0.7	23	NoA
196	1	Silver	65.4	48	10	2.7	2.61	Yes
196	1	Sodium	5920	48	48	340		NoE
196	1	Technetium-99	7.31	2	2	2.8	101	NoA
196	1	Thallium	114	48	5	0.34	0.368	Yes
196	1	Thorium-228	1.04	2	2	1.6		NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
196	1	Thorium-230	1.08	2	2	1.4	4.1	NoAB
196	1	Thorium-232	1.05	2	2	1.5		NoB
196	1	Uranium	23.3	2	2	4.6	13.8	Yes
196	1	Uranium-234	1.29	2	2	1.2	5.47	NoA
196	1	Uranium-235	0.083	2	2	0.06	0.122	NoA
196	1	Uranium-238	1.54	2	2	1.2	0.517	Yes
196	1	Vanadium	43.8	48	48	37	0.0365	Yes
196	1	Zinc	1650	48	48	60	1380	Yes
196	2	Acenaphthene	1.5	14	6		117	NoA
196	2	Acenaphthylene	0.43	29	2			NoC
196	2	Alpha activity	17.24941174	25	25			NoC
196	2	Aluminum	16900	26	26	12000	4410	Yes
196	2	Americium-241	0.0035	1	1		1.5	NoA
196	2	Anthracene	2.9	29	5		747	NoA
196	2	Antimony	62.2	26	14	0.21	0.552	Yes
196	2	Arsenic	9.4	32	26	7.9	0.238	Yes
196	2	Barium	202	32	32	170	140	Yes
196	2	Benzo(ghi)perylene	4.4	14	4			NoC
196	2	Beryllium	0.595	24	23	0.69	0.00567	NoB
196	2	Beta activity	18.1	1	1			NoC
196	2	Cadmium	4.42	32	18	0.21	0.811	Yes
196	2	Calcium	216000	24	24	6100		NoE
196	2	Cesium-137	0.038	1	1	0.28	0.0267	NoB
196	2	Chromium	32.8	32	32	43	15.6	NoB
196	2	Cobalt	8.5	24	24	13	1.37	NoB
196	2	Copper	25.2	24	24	25	184	NoA
196	2	Fluoranthene	18	14	10		109	NoA
196	2	Fluorene	2.3	14	8		91.5	NoA
196	2	Iron	19800	24	24	28000	3220	NoB
196	2	Lead	35.4	32	27	23	400	NoA
196	2	Magnesium	6860	26	26	2100		NoE
196	2	Manganese	659	24	24	820	419	NoB
196	2	Mercury	0.0521	32	24	0.13	0.213	NoAB
196	2	Naphthalene	1.1	14	2		1.15	NoA
196	2	Neptunium-237	0.083	1	1		0.0839	NoA
196	2	Nickel	80.1	26	26	22	10.4	Yes
196	2	PCB, Total	1.51	11	2		0.0648	Yes
196	2	Phenanthrene	14	14	8			NoC
196	2	Plutonium-238	0.034	1	1		3.21	NoA
196	2	Plutonium-239/240	0.017	1	1		3.15	NoA
196	2	Pyrene	16	29	11		81.2	NoA
196	2	Selenium	62.9	32	14	0.7	23	Yes
196	2	Silver	0.711	24	8	2.7	2.61	NoAB
196	2	Sodium	423	24	24	340		NoE
196	2	Technetium-99	0.58	1	1	2.8	101	NoAB
196	2	Thallium	0.157	24	5	0.34	0.368	NoAB
196	2	Thorium-228	0.141	1	1	1.6		NoB
196	2	Thorium-230	0.99	1	1	1.4	4.1	NoAB
196	2	Thorium-232	0.145	1	1	1.5		NoB
196	2	Total PAH	9.0385	29	6		0.0197	Yes
196	2	Uranium	6.63	1	1	4.6	13.8	NoA
196	2	Uranium-234	1.72	1	1	1.2	5.47	NoA
196	2	Uranium-235	0.11	1	1	0.06	0.122	NoA
196	2	Uranium-238	2.21	1	1	1.2	0.517	Yes
196	2	Vanadium	32.1	24	24	37	0.0365	NoB
196	2	Zinc	260	26	26	60	1380	NoA
200	1	Alpha activity	40.6	4	4			NoC

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
200	1	Aluminum	7300	6	6	12000	4410	NoB
200	1	Americium-241	0.029	4	4		1.5	NoA
200	1	Antimony	0.56	6	6	0.21	0.552	Yes
200	1	Arsenic	10.2	64	25	7.9	0.238	Yes
200	1	Barium	107	6	6	170	140	NoAB
200	1	Beryllium	0.64	6	6	0.69	0.00567	NoB
200	1	Beta activity	39.8	4	4			NoC
200	1	Cadmium	0.31	6	6	0.21	0.811	NoA
200	1	Calcium	173000	6	6	6100		NoE
200	1	Cesium-137	0.9	4	4	0.28	0.0267	Yes
200	1	Chromium	61.91	64	27	43	15.6	Yes
200	1	Cobalt	8.2	6	6	13	1.37	NoB
200	1	Copper	44.22	64	24	25	184	NoA
200	1	Iron	20700	64	64	28000	3220	NoB
200	1	Lead	32.04	64	60	23	400	NoA
200	1	Magnesium	5020	6	6	2100		NoE
200	1	Manganese	1209.96	64	64	820	419	Yes
200	1	Mercury	6.93	64	8	0.13	0.213	Yes
200	1	Molybdenum	0.73	64	6		23	NoA
200	1	Neptunium-237	0.045	4	4		0.0839	NoA
200	1	Nickel	259.54	64	25	22	10.4	Yes
200	1	PCB, Total	2.6	15	2		0.0648	Yes
200	1	Plutonium-238	0.018	4	4		3.21	NoA
200	1	Plutonium-239/240	0.127	4	4		3.15	NoA
200	1	Selenium	5.84	64	9	0.7	23	NoA
200	1	Silver	9.47	64	7	2.7	2.61	Yes
200	1	Sodium	106	6	6	340		NoBE
200	1	Technetium-99	2.42	4	4	2.8	101	NoAB
200	1	Thallium	0.3	6	6	0.34	0.368	NoAB
200	1	Thorium-228	1.03	4	4	1.6		NoB
200	1	Thorium-230	3.75	4	4	1.4	4.1	NoA
200	1	Thorium-232	0.97	4	4	1.5		NoB
200	1	Total PAH	0.0284	1	1		0.0197	Yes
200	1	Uranium	49.25	66	22	4.6	13.8	Yes
200	1	Uranium-234	2.21	4	4	1.2	5.47	NoA
200	1	Uranium-235	0.161	4	4	0.06	0.122	Yes
200	1	Uranium-238	3.77	4	4	1.2	0.517	Yes
200	1	Vanadium	35.7	6	6	37	0.0365	NoB
200	1	Zinc	248.34	64	64	60	1380	NoA
204	1	Aluminum	14800	7	7	12000	4410	Yes
204	1	Americium-241	0.07364	3	3		1.5	NoA
204	1	Antimony	0.4	7	1	0.21	0.552	NoA
204	1	Arsenic	10.4	7	6	7.9	0.238	Yes
204	1	Barium	89	7	7	170	140	NoAB
204	1	Beryllium	1.36	7	5	0.69	0.00567	Yes
204	1	Cadmium	2.73	7	3	0.21	0.811	Yes
204	1	Calcium	6240	7	7	6100		NoE
204	1	Cesium-137	0.128	1	1	0.28	0.0267	NoB
204	1	Chromium	74	7	7	43	15.6	Yes
204	1	Cobalt	9.02	7	7	13	1.37	NoB
204	1	Cobalt-60	0.00391	1	1		0.00547	NoA
204	1	Copper	20.7	7	7	25	184	NoAB
204	1	Iron	41900	7	7	28000	3220	Yes
204	1	Lead	22.3	7	4	23	400	NoAB
204	1	Magnesium	1540	7	7	2100		NoBE
204	1	Manganese	484	7	7	820	419	NoB
204	1	Mercury	0.062	7	2	0.13	0.213	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
204	1	Molybdenum	0.7	7	3		23	NoA
204	1	Neptunium-237	0.00978	1	1		0.0839	NoA
204	1	Nickel	14.7	7	7	22	10.4	NoB
204	1	PCB, Total	2.53	22	4		0.0648	Yes
204	1	Plutonium-238	0.01143	4	4		3.21	NoA
204	1	Plutonium-239/240	0.056	3	3		3.15	NoA
204	1	Selenium	0.51	7	1	0.7	23	NoAB
204	1	Sodium	149	7	4	340		NoBE
204	1	Technetium-99	8.42	6	6	2.8	101	NoA
204	1	Thallium	0.22	7	1	0.34	0.368	NoAB
204	1	Thorium-228	0.377	1	1	1.6		NoB
204	1	Thorium-230	0.362	1	1	1.4	4.1	NoAB
204	1	Thorium-232	0.397	1	1	1.5		NoB
204	1	Uranium	10.9	2	2	4.6	13.8	NoA
204	1	Uranium-234	1.482	4	4	1.2	5.47	NoA
204	1	Uranium-235	0.18	4	4	0.06	0.122	Yes
204	1	Uranium-238	5.2	4	4	1.2	0.517	Yes
204	1	Vanadium	75.5	7	7	37	0.0365	Yes
204	1	Zinc	85.5	7	7	60	1380	NoA
204	2	Aluminum	13700	2	2	12000	4410	Yes
204	2	Americium-241	-0.0103	2	2		1.5	NoA
204	2	Arsenic	6.72	2	1	7.9	0.238	NoB
204	2	Barium	101	2	2	170	140	NoAB
204	2	Beryllium	0.515	2	1	0.69	0.00567	NoB
204	2	Calcium	1350	2	2	6100		NoBE
204	2	Cesium-137	-0.00476	2	2	0.28	0.0267	NoAB
204	2	Chromium	18	2	2	43	15.6	NoB
204	2	Cobalt	4.84	2	2	13	1.37	NoB
204	2	Cobalt-60	0.00388	2	2		0.00547	NoA
204	2	Copper	10	2	2	25	184	NoAB
204	2	Iron	16300	2	2	28000	3220	NoB
204	2	Magnesium	1750	2	2	2100		NoBE
204	2	Manganese	251	2	2	820	419	NoAB
204	2	Neptunium-237	-0.000463	2	2		0.0839	NoA
204	2	Nickel	9.32	2	2	22	10.4	NoAB
204	2	PCB, Total	0.17	15	2		0.0648	Yes
204	2	Plutonium-238	-0.00479	2	2		3.21	NoA
204	2	Plutonium-239/240	-0.00775	2	2		3.15	NoA
204	2	Sodium	183	2	2	340		NoBE
204	2	Technetium-99	1.98	2	2	2.8	101	NoAB
204	2	Tetrachloroethene	0.008	1	1		0.113	NoA
204	2	Thorium-228	0.412	2	2	1.6		NoB
204	2	Thorium-230	0.283	2	2	1.4	4.1	NoAB
204	2	Thorium-232	0.461	2	2	1.5		NoB
204	2	Uranium	1.51	2	2	4.6	13.8	NoAB
204	2	Uranium-234	0.22	2	2	1.2	5.47	NoAB
204	2	Uranium-235	0.0157	2	2	0.06	0.122	NoAB
204	2	Uranium-238	0.364	2	2	1.2	0.517	NoAB
204	2	Vanadium	29.9	2	2	37	0.0365	NoB
204	2	Zinc	41.7	2	2	60	1380	NoAB
204	3	Aluminum	8170	4	4	12000	4410	NoB
204	3	Americium-241	0.0086	4	4		1.5	NoA
204	3	Barium	71.4	4	4	170	140	NoAB
204	3	Calcium	3500	4	4	6100		NoBE
204	3	Cesium-137	0.25	4	4	0.28	0.0267	NoB
204	3	Chromium	20.6	4	4	43	15.6	NoB
204	3	Cobalt	4.73	4	4	13	1.37	NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
204	3	Cobalt-60	0.00466	4	4		0.00547	NoA
204	3	Copper	9.39	4	4	25	184	NoAB
204	3	Iron	11600	4	4	28000	3220	NoB
204	3	Magnesium	1200	4	4	2100		NoBE
204	3	Manganese	338	4	4	820	419	NoAB
204	3	Neptunium-237	0.0121	4	4		0.0839	NoA
204	3	Nickel	7.07	4	3	22	10.4	NoAB
204	3	Plutonium-238	-0.00638	3	3		3.21	NoA
204	3	Plutonium-239/240	0.00107	4	4		3.15	NoA
204	3	Sodium	196	4	4	340		NoBE
204	3	Technetium-99	4.18	4	4	2.8	101	NoA
204	3	Thorium-228	0.366	4	4	1.6		NoB
204	3	Thorium-230	0.304	4	4	1.4	4.1	NoAB
204	3	Thorium-232	0.379	4	4	1.5		NoB
204	3	Uranium	7.45	4	4	4.6	13.8	NoA
204	3	Uranium-234	0.813	4	4	1.2	5.47	NoAB
204	3	Uranium-235	0.0439	4	4	0.06	0.122	NoAB
204	3	Uranium-238	2.5	4	4	1.2	0.517	Yes
204	3	Vanadium	20.4	4	4	37	0.0365	NoB
204	3	Zinc	60.1	4	4	60	1380	NoA
204	4	Aluminum	6510	5	5	12000	4410	NoB
204	4	Americium-241	0.05039	3	3		1.5	NoA
204	4	Antimony	17.2	5	3	0.21	0.552	Yes
204	4	Arsenic	3	4	2	7.9	0.238	NoB
204	4	Barium	83.7	5	5	170	140	NoAB
204	4	Beryllium	0.477	5	3	0.69	0.00567	NoB
204	4	Cadmium	0.61	4	2	0.21	0.811	NoA
204	4	Calcium	88300	5	5	6100		NoE
204	4	Cesium-137	0.004081	1	1	0.28	0.0267	NoAB
204	4	Chromium	28.9	5	5	43	15.6	NoB
204	4	Cobalt	5	4	3	13	1.37	NoB
204	4	Cobalt-60	-0.01657	1	1		0.00547	NoA
204	4	Copper	26.9	5	5	25	184	NoA
204	4	Iron	12800	5	5	28000	3220	NoB
204	4	Lead	9.6	4	2	23	400	NoAB
204	4	Magnesium	7150	5	5	2100		NoE
204	4	Manganese	358	5	5	820	419	NoAB
204	4	Mercury	0.12	4	2	0.13	0.213	NoAB
204	4	Molybdenum	0.86	4	2		23	NoA
204	4	Neptunium-237	0.01204	1	1		0.0839	NoA
204	4	Nickel	15.7	5	5	22	10.4	NoB
204	4	PCB, Total	0.042	19	1		0.0648	NoA
204	4	Plutonium-238	0.01195	3	3		3.21	NoA
204	4	Plutonium-239/240	0.01202	3	3		3.15	NoA
204	4	Sodium	108	4	2	340		NoBE
204	4	Technetium-99	4.17	3	3	2.8	101	NoA
204	4	Thorium-228	0.4504	1	1	1.6		NoB
204	4	Thorium-230	0.5634	1	1	1.4	4.1	NoAB
204	4	Thorium-232	0.5912	1	1	1.5		NoB
204	4	Uranium-233/234	0.5672	1	1	1.2	5.47	NoAB
204	4	Uranium-234	2.095	2	2	1.2	5.47	NoA
204	4	Uranium-235	0.1878	3	3	0.06	0.122	Yes
204	4	Uranium-238	9.723	3	3	1.2	0.517	Yes
204	4	Vanadium	21	5	5	37	0.0365	NoB
204	4	Zinc	166	5	5	60	1380	NoA
204	11	Technetium-99	0.34	2	2	2.8	101	NoAB
204	15	1,1,1-Trichloroethane	0.018	3	1			NoC

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
204	17	1,1,1-Trichloroethane	0.013	3	1			NoC
204	18	Alpha activity	77	1	1			NoC
204	18	Americium-241	0.014	1	1		1.5	NoA
204	18	Beta activity	65.7	1	1			NoC
204	18	Cesium-137	0.63	1	1	0.28	0.0267	Yes
204	18	Neptunium-237	0.019	1	1		0.0839	NoA
204	18	Plutonium-238	0.0096	1	1		3.21	NoA
204	18	Plutonium-239/240	0.0105	1	1		3.15	NoA
204	18	Technetium-99	0.26	1	1	2.8	101	NoAB
204	18	Thorium-228	1.05	1	1	1.6		NoB
204	18	Thorium-230	1.12	1	1	1.4	4.1	NoAB
204	18	Thorium-232	1.06	1	1	1.5		NoB
204	18	Uranium	16	1	1	4.6	13.8	Yes
204	18	Uranium-234	2.27	1	1	1.2	5.47	NoA
204	18	Uranium-235	0.125	1	1	0.06	0.122	Yes
204	18	Uranium-238	5.37	1	1	1.2	0.517	Yes
204	22	Uranium	371	5	5	4.6	13.8	Yes
204	23	1,1,1-Trichloroethane	0.024	3	3			NoC
204	23	Americium-241	3.709	2	2		1.5	Yes
204	23	Beryllium	1.33	2	2	0.69	0.00567	Yes
204	23	Cesium-137	1.172	2	2	0.28	0.0267	Yes
204	23	Chromium	175	2	2	43	15.6	Yes
204	23	Cobalt-60	0.01225	2	2		0.00547	Yes
204	23	Neptunium-237	0.061	2	2		0.0839	NoA
204	23	PCB, Total	79	4	2		0.0648	Yes
204	23	Plutonium-238	0.024	2	2		3.21	NoA
204	23	Plutonium-239/240	0.098	2	2		3.15	NoA
204	23	Technetium-99	7.64	2	2	2.8	101	NoA
204	23	Thorium-228	0.8402	2	2	1.6		NoB
204	23	Thorium-230	1.15	2	2	1.4	4.1	NoAB
204	23	Thorium-232	0.515	2	2	1.5		NoB
204	23	Trichloroethene	0.073	4	4		0.0234	Yes
204	23	Uranium	13070	2	2	4.6	13.8	Yes
204	23	Uranium-234	445	2	2	1.2	5.47	Yes
204	23	Uranium-235	57	2	2	0.06	0.122	Yes
204	23	Uranium-238	4386	2	2	1.2	0.517	Yes
211	1	Alpha activity	56	3	3			NoC
211	1	Aluminum	11100	6	6	12000	4410	NoB
211	1	Americium-241	0.011	3	3		1.5	NoA
211	1	Antimony	0.53	6	5	0.21	0.552	NoA
211	1	Arsenic	10	26	13	7.9	0.238	Yes
211	1	Barium	213	6	6	170	140	Yes
211	1	Benzo(ghi)perylene	0.046	4	1			NoC
211	1	Beryllium	0.85	6	6	0.69	0.00567	Yes
211	1	Beta activity	60.5	3	3			NoC
211	1	Cadmium	0.2	6	4	0.21	0.811	NoAB
211	1	Calcium	30000	6	6	6100		NoE
211	1	Cesium-137	0.136	3	3	0.28	0.0267	NoB
211	1	Chromium	48.44	26	18	43	15.6	Yes
211	1	Cobalt	49.5	6	6	13	1.37	Yes
211	1	Copper	26.13	26	9	25	184	NoA
211	1	Fluoranthene	0.11	10	3		109	NoA
211	1	Iron	23700	26	26	28000	3220	NoB
211	1	Lead	37.47	26	25	23	400	NoA
211	1	Magnesium	3320	6	6	2100		NoE
211	1	Manganese	641	26	24	820	419	NoB
211	1	Mercury	0.0843	26	5	0.13	0.213	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
211	1	Methylene chloride	0.0092	7	3			NoC
211	1	Molybdenum	1.1	24	4		23	NoA
211	1	Neptunium-237	0.156	3	3		0.0839	Yes
211	1	Nickel	88.66	26	10	22	10.4	Yes
211	1	PCB, Total	140	35	10		0.0648	Yes
211	1	Phenanthrene	0.076	10	3			NoC
211	1	Plutonium-238	0.011	3	3		3.21	NoA
211	1	Plutonium-239/240	0.018	3	3		3.15	NoA
211	1	Pyrene	0.13	10	3		81.2	NoA
211	1	Selenium	2	26	5	0.7	23	NoA
211	1	Silver	0.052	26	4	2.7	2.61	NoAB
211	1	Sodium	284	6	6	340		NoBE
211	1	Technetium-99	5.58	3	3	2.8	101	NoA
211	1	Thallium	0.33	6	4	0.34	0.368	NoAB
211	1	Thorium-228	1.42	3	3	1.6		NoB
211	1	Thorium-230	1.46	3	3	1.4	4.1	NoA
211	1	Thorium-232	1.18	3	3	1.5		NoB
211	1	Toluene	0.00083	7	1			NoC
211	1	Total PAH	0.103806	10	3		0.0197	Yes
211	1	Uranium	48.5	24	9	4.6	13.8	Yes
211	1	Uranium-234	8.06	3	3	1.2	5.47	Yes
211	1	Uranium-235	0.58	3	3	0.06	0.122	Yes
211	1	Uranium-238	15.9	3	3	1.2	0.517	Yes
211	1	Vanadium	25.1	6	6	37	0.0365	NoB
211	1	Zinc	54.14	26	26	60	1380	NoAB
212	1	Alpha activity	1280	3	3			NoC
212	1	Aluminum	9890	8	8	12000	4410	NoB
212	1	Americium-241	0.93	4	4		1.5	NoA
212	1	Antimony	1.4	8	5	0.21	0.552	Yes
212	1	Arsenic	14.42	18	13	7.9	0.238	Yes
212	1	Barium	192	8	8	170	140	Yes
212	1	Beryllium	0.89	8	7	0.69	0.00567	Yes
212	1	Beta activity	120	3	3			NoC
212	1	Cadmium	0.287	8	5	0.21	0.811	NoA
212	1	Calcium	21900	8	8	6100		NoE
212	1	Cesium-137	0.601	4	4	0.28	0.0267	Yes
212	1	Chromium	66.62	18	11	43	15.6	Yes
212	1	Cobalt	17.6	8	8	13	1.37	Yes
212	1	Cobalt-60	0.00876	1	1		0.00547	Yes
212	1	Copper	21.79	18	10	25	184	NoAB
212	1	Iron	41400.78	18	18	28000	3220	Yes
212	1	Lead	30.6	18	15	23	400	NoA
212	1	Magnesium	2160	8	8	2100		NoE
212	1	Manganese	1440	18	18	820	419	Yes
212	1	Mercury	6.94	18	6	0.13	0.213	Yes
212	1	Molybdenum	1.3	14	3		23	NoA
212	1	Neptunium-237	4	4	4		0.0839	Yes
212	1	Nickel	86.91	18	10	22	10.4	Yes
212	1	PCB, Total	0.18	14	1		0.0648	Yes
212	1	Plutonium-238	0.098	4	4		3.21	NoA
212	1	Plutonium-239/240	6.71	4	4		3.15	Yes
212	1	Selenium	1.6	18	3	0.7	23	NoA
212	1	Silver	15.52	18	6	2.7	2.61	Yes
212	1	Sodium	431	8	7	340		NoE
212	1	Technetium-99	5.78	4	4	2.8	101	NoA
212	1	Thallium	0.15	8	2	0.34	0.368	NoAB
212	1	Thorium-228	1.4	4	4	1.6		NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
212	1	Thorium-230	260	4	4	1.4	4.1	Yes
212	1	Thorium-232	1	4	4	1.5		NoB
212	1	Uranium	23	15	6	4.6	13.8	Yes
212	1	Uranium-234	2.59	4	4	1.2	5.47	NoA
212	1	Uranium-235	0.209	7	7	0.06	0.122	Yes
212	1	Uranium-238	3.17	4	4	1.2	0.517	Yes
212	1	Vanadium	53.3	8	8	37	0.0365	Yes
212	1	Zinc	68.79	18	18	60	1380	NoA
213	1	Alpha activity	31.4	1	1			NoC
213	1	Aluminum	4180	1	1	12000	4410	NoAB
213	1	Americium-241	0.01	1	1		1.5	NoA
213	1	Antimony	0.85	1	1	0.21	0.552	Yes
213	1	Arsenic	9.21	11	5	7.9	0.238	Yes
213	1	Barium	78.5	1	1	170	140	NoAB
213	1	Benzo(ghi)perylene	0.079	1	1			NoC
213	1	Beryllium	0.25	1	1	0.69	0.00567	NoB
213	1	Beta activity	28.2	1	1			NoC
213	1	Cadmium	0.51	1	1	0.21	0.811	NoA
213	1	Calcium	124000	1	1	6100		NoE
213	1	Cesium-137	0.273	1	1	0.28	0.0267	NoB
213	1	Chromium	54.66	11	4	43	15.6	Yes
213	1	Cobalt	3.8	1	1	13	1.37	NoB
213	1	Copper	20.04	11	2	25	184	NoAB
213	1	Fluoranthene	0.66	1	1		109	NoA
213	1	Iron	24576.19	11	11	28000	3220	NoB
213	1	Lead	18.4	11	8	23	400	NoAB
213	1	Magnesium	9150	1	1	2100		NoE
213	1	Manganese	906.25	11	10	820	419	Yes
213	1	Mercury	0.0375	6	1	0.13	0.213	NoAB
213	1	Molybdenum	0.61	6	1		23	NoA
213	1	Neptunium-237	0.029	1	1		0.0839	NoA
213	1	Nickel	66.73	6	2	22	10.4	Yes
213	1	PCB, Total	0.073	6	1		0.0648	Yes
213	1	Phenanthrene	0.096	1	1			NoC
213	1	Plutonium-238	0.022	1	1		3.21	NoA
213	1	Plutonium-239/240	0.051	1	1		3.15	NoA
213	1	Pyrene	0.49	1	1		81.2	NoA
213	1	Selenium	0.77	6	1	0.7	23	NoA
213	1	Silver	13.17	6	3	2.7	2.61	Yes
213	1	Sodium	144	1	1	340		NoBE
213	1	Technetium-99	0.26	1	1	2.8	101	NoAB
213	1	Thallium	0.17	1	1	0.34	0.368	NoAB
213	1	Thorium-228	0.263	1	1	1.6		NoB
213	1	Thorium-230	2.06	1	1	1.4	4.1	NoA
213	1	Thorium-232	0.255	1	1	1.5		NoB
213	1	Total PAH	0.17186	1	1		0.0197	Yes
213	1	Uranium	6.98	6	1	4.6	13.8	NoA
213	1	Uranium-234	1.99	1	1	1.2	5.47	NoA
213	1	Uranium-235	0.11	1	1	0.06	0.122	NoA
213	1	Uranium-238	2.33	1	1	1.2	0.517	Yes
213	1	Vanadium	13.1	1	1	37	0.0365	NoB
213	1	Zinc	117.36	11	11	60	1380	NoA
213	2	Alpha activity	17.8	1	1			NoC
213	2	Americium-241	0.002	1	1		1.5	NoA
213	2	Arsenic	5.77	4	1	7.9	0.238	NoB
213	2	Beta activity	9.9	1	1			NoC
213	2	Cesium-137	0.005	1	1	0.28	0.0267	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
213	2	Chromium	67.73	8	5	43	15.6	Yes
213	2	Copper	26.36	4	1	25	184	NoA
213	2	Iron	18954.07	8	8	28000	3220	NoB
213	2	Lead	14.56	8	7	23	400	NoAB
213	2	Manganese	2103.9	8	8	820	419	Yes
213	2	Neptunium-237	-0.0031	1	1		0.0839	NoA
213	2	Nickel	90.98	8	3	22	10.4	Yes
213	2	Plutonium-238	0.01	1	1		3.21	NoA
213	2	Plutonium-239/240	0.007	1	1		3.15	NoA
213	2	Silver	11.26	8	2	2.7	2.61	Yes
213	2	Technetium-99	0.11	1	1	2.8	101	NoAB
213	2	Thorium-228	0.065	1	1	1.6		NoB
213	2	Thorium-230	0.69	1	1	1.4	4.1	NoAB
213	2	Thorium-232	0.069	1	1	1.5		NoB
213	2	Uranium	8.89	5	3	4.6	13.8	NoA
213	2	Uranium-234	0.96	1	1	1.2	5.47	NoAB
213	2	Uranium-235	0.053	1	1	0.06	0.122	NoAB
213	2	Uranium-238	0.82	1	1	1.2	0.517	NoB
213	2	Zinc	99.54	8	8	60	1380	NoA
214	1	Alpha activity	27.6	2	2			NoC
214	1	Aluminum	5230	1	1	12000	4410	NoB
214	1	Americium-241	0.007	2	2		1.5	NoA
214	1	Antimony	0.57	1	1	0.21	0.552	Yes
214	1	Arsenic	11.52	2	2	7.9	0.238	Yes
214	1	Barium	90.8	1	1	170	140	NoAB
214	1	Beryllium	0.27	1	1	0.69	0.00567	NoB
214	1	Beta activity	27.3	2	2			NoC
214	1	Butyl benzyl phthalate	0.044	1	1			NoC
214	1	Cadmium	0.28	1	1	0.21	0.811	NoA
214	1	Calcium	214000	1	1	6100		NoE
214	1	Cesium-137	0.02	2	2	0.28	0.0267	NoAB
214	1	Chromium	14.3	2	1	43	15.6	NoAB
214	1	Cobalt	4.7	1	1	13	1.37	NoB
214	1	Copper	4.2	2	1	25	184	NoAB
214	1	Iron	12362.46	2	2	28000	3220	NoB
214	1	Lead	14.91	2	2	23	400	NoAB
214	1	Magnesium	12600	1	1	2100		NoE
214	1	Manganese	611.76	2	2	820	419	NoB
214	1	Mercury	0.0416	2	1	0.13	0.213	NoAB
214	1	Molybdenum	0.45	2	1		23	NoA
214	1	Neptunium-237	0.001	2	2		0.0839	NoA
214	1	Nickel	6.9	2	1	22	10.4	NoAB
214	1	Plutonium-238	0.019	2	2		3.21	NoA
214	1	Plutonium-239/240	0.009	2	2		3.15	NoA
214	1	Selenium	0.67	2	1	0.7	23	NoAB
214	1	Silver	0.021	2	1	2.7	2.61	NoAB
214	1	Sodium	222	1	1	340		NoBE
214	1	Technetium-99	0.17	2	2	2.8	101	NoAB
214	1	Thorium-228	0.85	2	2	1.6		NoB
214	1	Thorium-230	1.16	2	2	1.4	4.1	NoAB
214	1	Thorium-232	0.95	2	2	1.5		NoB
214	1	Uranium	2.96	3	2	4.6	13.8	NoAB
214	1	Uranium-234	0.97	2	2	1.2	5.47	NoAB
214	1	Uranium-235	0.066	2	2	0.06	0.122	NoA
214	1	Uranium-238	0.99	2	2	1.2	0.517	NoB
214	1	Vanadium	17	1	1	37	0.0365	NoB
214	1	Zinc	61.96	2	2	60	1380	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
215	1	Alpha activity	23	2	2			NoC
215	1	Aluminum	7810	3	3	12000	4410	NoB
215	1	Americium-241	0.017	2	2		1.5	NoA
215	1	Antimony	0.68	3	3	0.21	0.552	Yes
215	1	Arsenic	10.16	21	14	7.9	0.238	Yes
215	1	Barium	90.6	3	3	170	140	NoAB
215	1	Benzo(ghi)perylene	0.048	1	1			NoC
215	1	Beryllium	0.43	3	3	0.69	0.00567	NoB
215	1	Beta activity	30.2	2	2			NoC
215	1	Cadmium	0.39	3	3	0.21	0.811	NoA
215	1	Calcium	172000	3	3	6100		NoE
215	1	Cesium-137	0.271	2	2	0.28	0.0267	NoB
215	1	Chromium	57.32	21	10	43	15.6	Yes
215	1	Cobalt	6.8	3	3	13	1.37	NoB
215	1	Copper	23.98	21	4	25	184	NoAB
215	1	Di-n-butyl phthalate	0.99	10	5			NoC
215	1	Fluoranthene	0.6	11	2		109	NoA
215	1	Iron	38688.75	21	21	28000	3220	Yes
215	1	Lead	19.62	21	21	23	400	NoAB
215	1	Magnesium	9950	3	3	2100		NoE
215	1	Manganese	672	21	21	820	419	NoB
215	1	Mercury	0.0283	21	3	0.13	0.213	NoAB
215	1	Molybdenum	1	21	3		23	NoA
215	1	Neptunium-237	0.01	2	2		0.0839	NoA
215	1	Nickel	73.16	21	5	22	10.4	Yes
215	1	Phenanthrene	0.085	1	1			NoC
215	1	Plutonium-238	0.01	2	2		3.21	NoA
215	1	Plutonium-239/240	0.029	2	2		3.15	NoA
215	1	Pyrene	0.58	11	2		81.2	NoA
215	1	Selenium	1.1	21	3	0.7	23	NoA
215	1	Silver	9.51	21	4	2.7	2.61	Yes
215	1	Sodium	317	3	3	340		NoBE
215	1	Technetium-99	0.01	2	2	2.8	101	NoAB
215	1	Thallium	0.21	3	3	0.34	0.368	NoAB
215	1	Thorium-228	0.413	2	2	1.6		NoB
215	1	Thorium-230	0.73	2	2	1.4	4.1	NoAB
215	1	Thorium-232	0.394	2	2	1.5		NoB
215	1	Total PAH	0.5	11	11		0.0197	Yes
215	1	Uranium	2.85	22	4	4.6	13.8	NoAB
215	1	Uranium-234	0.86	2	2	1.2	5.47	NoAB
215	1	Uranium-235	0.031	2	2	0.06	0.122	NoAB
215	1	Uranium-238	0.95	2	2	1.2	0.517	NoB
215	1	Vanadium	20.5	3	3	37	0.0365	NoB
215	1	Zinc	573.24	21	21	60	1380	NoA
216	1	Alpha activity	39.4	2	2			NoC
216	1	Aluminum	7260	1	1	12000	4410	NoB
216	1	Americium-241	0.016	2	2		1.5	NoA
216	1	Antimony	0.34	1	1	0.21	0.552	NoA
216	1	Arsenic	8.6	1	1	7.9	0.238	Yes
216	1	Barium	79.3	1	1	170	140	NoAB
216	1	Benzo(ghi)perylene	0.089	1	1			NoC
216	1	Beryllium	0.5	1	1	0.69	0.00567	NoB
216	1	Beta activity	32.4	2	2			NoC
216	1	Cadmium	0.42	1	1	0.21	0.811	NoA
216	1	Calcium	9660	1	1	6100		NoE
216	1	Cesium-137	0.41	2	2	0.28	0.0267	Yes
216	1	Chromium	23.8	1	1	43	15.6	NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
216	1	Cobalt	6	1	1	13	1.37	NoB
216	1	Copper	9	1	1	25	184	NoAB
216	1	Fluoranthene	0.13	1	1		109	NoA
216	1	Iron	15500	1	1	28000	3220	NoB
216	1	Lead	17.8	1	1	23	400	NoAB
216	1	Magnesium	4010	1	1	2100		NoE
216	1	Manganese	664	1	1	820	419	NoB
216	1	Mercury	0.0349	1	1	0.13	0.213	NoAB
216	1	Molybdenum	0.71	1	1		23	NoA
216	1	Neptunium-237	0.053	2	2		0.0839	NoA
216	1	Nickel	8.8	1	1	22	10.4	NoAB
216	1	Phenol	0.13	1	1			NoC
216	1	Plutonium-238	0.006	2	2		3.21	NoA
216	1	Plutonium-239/240	0.018	2	2		3.15	NoA
216	1	Pyrene	0.12	1	1		81.2	NoA
216	1	Selenium	1.3	1	1	0.7	23	NoA
216	1	Silver	0.034	1	1	2.7	2.61	NoAB
216	1	Sodium	39.7	1	1	340		NoBE
216	1	Technetium-99	0.35	2	2	2.8	101	NoAB
216	1	Thallium	0.21	1	1	0.34	0.368	NoAB
216	1	Thorium-228	1.03	2	2	1.6		NoB
216	1	Thorium-230	1.01	2	2	1.4	4.1	NoAB
216	1	Thorium-232	0.96	2	2	1.5		NoB
216	1	Total PAH	0.14932	1	1		0.0197	Yes
216	1	Uranium	8.43	2	2	4.6	13.8	NoA
216	1	Uranium-234	1.15	2	2	1.2	5.47	NoAB
216	1	Uranium-235	0.065	2	2	0.06	0.122	NoA
216	1	Uranium-238	1.33	2	2	1.2	0.517	Yes
216	1	Vanadium	26.6	1	1	37	0.0365	NoB
216	1	Zinc	33	1	1	60	1380	NoAB
217	1	Alpha activity	26.7	4	4			NoC
217	1	Aluminum	9220	3	3	12000	4410	NoB
217	1	Americium-241	0.016	4	4		1.5	NoA
217	1	Antimony	0.54	3	3	0.21	0.552	NoA
217	1	Arsenic	10.7	34	18	7.9	0.238	Yes
217	1	Barium	115	3	3	170	140	NoAB
217	1	Benzenemethanol	0.073	3	1			NoC
217	1	Beryllium	0.67	3	3	0.69	0.00567	NoB
217	1	Beta activity	33.9	4	4			NoC
217	1	Cadmium	0.16	3	3	0.21	0.811	NoAB
217	1	Calcium	21100	3	3	6100		NoE
217	1	Cesium-137	0.113	4	4	0.28	0.0267	NoB
217	1	Chromium	88.9	34	17	43	15.6	Yes
217	1	Cobalt	25	3	3	13	1.37	Yes
217	1	Copper	25.9	34	5	25	184	NoA
217	1	Iron	24100	34	34	28000	3220	NoB
217	1	Lead	17.1	34	29	23	400	NoAB
217	1	Magnesium	2610	3	3	2100		NoE
217	1	Manganese	1956.03	34	34	820	419	Yes
217	1	Mercury	7.37	34	5	0.13	0.213	Yes
217	1	Molybdenum	1.9	34	3		23	NoA
217	1	Neptunium-237	0.023	4	4		0.0839	NoA
217	1	Nickel	130.42	34	12	22	10.4	Yes
217	1	Plutonium-238	0.017	4	4		3.21	NoA
217	1	Plutonium-239/240	0.019	4	4		3.15	NoA
217	1	Selenium	1.3	34	3	0.7	23	NoA
217	1	Silver	13.45	34	6	2.7	2.61	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
217	1	Sodium	344	3	3	340		NoE
217	1	Technetium-99	1.59	4	4	2.8	101	NoAB
217	1	Thallium	0.27	3	3	0.34	0.368	NoAB
217	1	Thorium-228	0.82	4	4	1.6		NoB
217	1	Thorium-230	0.86	4	4	1.4	4.1	NoAB
217	1	Thorium-232	0.81	4	4	1.5		NoB
217	1	Total PAH	0.0052	1	1		0.0197	NoA
217	1	Uranium	3.8	36	5	4.6	13.8	NoAB
217	1	Uranium-234	0.98	4	4	1.2	5.47	NoAB
217	1	Uranium-235	0.067	4	4	0.06	0.122	NoA
217	1	Uranium-238	1.27	4	4	1.2	0.517	Yes
217	1	Vanadium	43.8	3	3	37	0.0365	Yes
217	1	Zinc	81.66	34	34	60	1380	NoA
217	2	1,1,1-Trichloroethane	0.61	20	1			NoC
217	2	1,1-Dichloroethene	0.03	20	2		0.0237	Yes
217	2	1,2-Dichloroethane	0.012	20	1			NoC
217	2	Acetone	0.071	20	3			NoC
217	2	Alpha activity	31.9	3	3			NoC
217	2	Aluminum	14400	29	29	12000	4410	Yes
217	2	Americium-241	0.0181	4	4		1.5	NoA
217	2	Antimony	3.1	28	10	0.21	0.552	Yes
217	2	Arsenic	21.3	56	30	7.9	0.238	Yes
217	2	Barium	153	29	29	170	140	NoB
217	2	Benzene	0.01	23	5		0.333	NoA
217	2	Benzo(ghi)perylene	0.27	4	1			NoC
217	2	Beryllium	0.88	29	27	0.69	0.00567	Yes
217	2	Beta activity	28	3	3			NoC
217	2	Bis(2-ethylhexyl)phthalate	0.1	22	1			NoC
217	2	Cadmium	0.69	29	7	0.21	0.811	NoA
217	2	Calcium	25800	29	29	6100		NoE
217	2	Cesium-137	0.014	4	4	0.28	0.0267	NoAB
217	2	Chromium	108.22	61	40	43	15.6	Yes
217	2	Cobalt	190	29	28	13	1.37	Yes
217	2	Cobalt-60	-0.00272	1	1		0.00547	NoA
217	2	Copper	37.2	61	30	25	184	NoA
217	2	Di-n-butyl phthalate	0.22	4	1			NoC
217	2	Ethylbenzene	0.002	20	1		1.58	NoA
217	2	Fluoranthene	0.34	4	1		109	NoA
217	2	Iron	60384.46	61	61	28000	3220	Yes
217	2	Lead	43.53	61	51	23	400	NoA
217	2	Magnesium	2050	29	29	2100		NoBE
217	2	Manganese	2054.22	61	58	820	419	Yes
217	2	Mercury	9.2	61	10	0.13	0.213	Yes
217	2	Methylene chloride	0.012	20	1			NoC
217	2	Molybdenum	5.89	37	6		23	NoA
217	2	Neptunium-237	0.0146	4	4		0.0839	NoA
217	2	Nickel	131.45	61	39	22	10.4	Yes
217	2	Phenanthrene	0.079	4	1			NoC
217	2	Plutonium-238	0.02	4	4		3.21	NoA
217	2	Plutonium-239/240	0.0056	4	4		3.15	NoA
217	2	Pyrene	0.28	4	1		81.2	NoA
217	2	Selenium	1.67	52	10	0.7	23	NoA
217	2	Silver	16.09	61	10	2.7	2.61	Yes
217	2	Sodium	630	28	28	340		NoE
217	2	Technetium-99	1.89	4	4	2.8	101	NoAB
217	2	Thallium	0.25	29	6	0.34	0.368	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
217	2	Thorium-228	0.92	4	4	1.6		NoB
217	2	Thorium-230	0.81	4	4	1.4	4.1	NoAB
217	2	Thorium-232	0.98	4	4	1.5		NoB
217	2	Toluene	0.007	20	1			NoC
217	2	Total PAH	0.73675	4	2		0.0197	Yes
217	2	Total Xylene	0.017	20	1		7.96	NoA
217	2	Trichloroethene	0.014	23	3		0.0234	NoA
217	2	Uranium	7.9	38	6	4.6	13.8	NoA
217	2	Uranium-234	0.924	4	4	1.2	5.47	NoAB
217	2	Uranium-235	0.0438	6	6	0.06	0.122	NoAB
217	2	Uranium-238	0.772	4	4	1.2	0.517	NoB
217	2	Vanadium	37.9	29	28	37	0.0365	Yes
217	2	Zinc	589.19	61	60	60	1380	NoA
219	1	Alpha activity	37.3	4	4			NoC
219	1	Aluminum	5480	2	2	12000	4410	NoB
219	1	Americium-241	0.012	4	4		1.5	NoA
219	1	Antimony	0.38	1	1	0.21	0.552	NoA
219	1	Arsenic	3.4	3	2	7.9	0.238	NoB
219	1	Barium	87	2	2	170	140	NoAB
219	1	Beryllium	0.28	2	2	0.69	0.00567	NoB
219	1	Beta activity	45.8	4	4			NoC
219	1	Cadmium	0.24	1	1	0.21	0.811	NoA
219	1	Calcium	79100	2	2	6100		NoE
219	1	Cesium-137	0.092	4	4	0.28	0.0267	NoB
219	1	Chromium	10.8	3	2	43	15.6	NoAB
219	1	Cobalt	3.7	2	2	13	1.37	NoB
219	1	Copper	12.4	3	2	25	184	NoAB
219	1	Fluoranthene	0.12	1	1		109	NoA
219	1	Iron	8780	3	3	28000	3220	NoB
219	1	Lead	16.18	3	3	23	400	NoAB
219	1	Magnesium	2630	2	2	2100		NoE
219	1	Manganese	212	3	3	820	419	NoAB
219	1	Mercury	0.0259	3	2	0.13	0.213	NoAB
219	1	Molybdenum	0.34	1	1		23	NoA
219	1	Neptunium-237	0.331	4	4		0.0839	Yes
219	1	Nickel	67.13	3	2	22	10.4	Yes
219	1	Phenanthrene	0.074	1	1			NoC
219	1	Plutonium-238	0.013	4	4		3.21	NoA
219	1	Plutonium-239/240	0.032	4	4		3.15	NoA
219	1	Pyrene	0.1	1	1		81.2	NoA
219	1	Selenium	1.2	3	2	0.7	23	NoA
219	1	Silver	0.056	3	2	2.7	2.61	NoAB
219	1	Sodium	86.4	2	2	340		NoBE
219	1	Technetium-99	10	4	4	2.8	101	NoA
219	1	Thallium	0.14	2	2	0.34	0.368	NoAB
219	1	Thorium-228	1	4	4	1.6		NoB
219	1	Thorium-230	1.02	4	4	1.4	4.1	NoAB
219	1	Thorium-232	1.01	4	4	1.5		NoB
219	1	Total PAH	0.075039	1	1		0.0197	Yes
219	1	Uranium	13.2	4	4	4.6	13.8	NoA
219	1	Uranium-234	2.54	4	4	1.2	5.47	NoA
219	1	Uranium-235	0.192	4	4	0.06	0.122	Yes
219	1	Uranium-238	4.4	4	4	1.2	0.517	Yes
219	1	Vanadium	15.2	2	2	37	0.0365	NoB
219	1	Zinc	48.99	3	3	60	1380	NoAB
221	1	Acenaphthylene	0.15	1	1			NoC
221	1	Alpha activity	17.7	1	1			NoC

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
221	1	Aluminum	52800	4	4	12000	4410	Yes
221	1	Americium-241	0.01	1	1		1.5	NoA
221	1	Anthracene	0.095	1	1		747	NoA
221	1	Antimony	1.1	4	4	0.21	0.552	Yes
221	1	Arsenic	28.4	32	17	7.9	0.238	Yes
221	1	Barium	1630	4	4	170	140	Yes
221	1	Benzo(ghi)perylene	0.46	1	1			NoC
221	1	Beryllium	2.7	4	4	0.69	0.00567	Yes
221	1	Beta activity	27.5	1	1			NoC
221	1	Bis(2-ethylhexyl)phthalate	0.14	1	1			NoC
221	1	Cadmium	0.7	4	4	0.21	0.811	NoA
221	1	Calcium	243000	4	4	6100		NoE
221	1	Cesium-137	0.022	1	1	0.28	0.0267	NoAB
221	1	Chromium	72.82	32	21	43	15.6	Yes
221	1	Cobalt	144	4	4	13	1.37	Yes
221	1	Copper	79.1	32	11	25	184	NoA
221	1	Di-n-butyl phthalate	0.096	1	1			NoC
221	1	Fluoranthene	0.76	1	1		109	NoA
221	1	Iron	79900	32	32	28000	3220	Yes
221	1	Lead	60.7	32	31	23	400	NoA
221	1	Magnesium	13800	4	4	2100		NoE
221	1	Manganese	13100	32	32	820	419	Yes
221	1	Mercury	12.29	32	5	0.13	0.213	Yes
221	1	Molybdenum	4	32	4		23	NoA
221	1	Neptunium-237	0.07	1	1		0.0839	NoA
221	1	Nickel	139	32	7	22	10.4	Yes
221	1	PCB, Total	0.5	12	1		0.0648	Yes
221	1	Phenanthrene	0.096	1	1			NoC
221	1	Plutonium-238	0.016	1	1		3.21	NoA
221	1	Plutonium-239/240	0.0017	1	1		3.15	NoA
221	1	Pyrene	0.75	1	1		81.2	NoA
221	1	Selenium	9.8	32	4	0.7	23	NoA
221	1	Silver	9.74	32	5	2.7	2.61	Yes
221	1	Sodium	301	4	4	340		NoBE
221	1	Technetium-99	0.22	1	1	2.8	101	NoAB
221	1	Thallium	2.4	4	4	0.34	0.368	Yes
221	1	Thorium-228	0.243	1	1	1.6		NoB
221	1	Thorium-230	0.84	1	1	1.4	4.1	NoAB
221	1	Thorium-232	0.263	1	1	1.5		NoB
221	1	Total PAH	1.02258	1	1		0.0197	Yes
221	1	Uranium	16.37	32	14	4.6	13.8	Yes
221	1	Uranium-234	1.2	1	1	1.2	5.47	NoA
221	1	Uranium-235	0.067	1	1	0.06	0.122	NoA
221	1	Uranium-238	1.93	1	1	1.2	0.517	Yes
221	1	Vanadium	108	4	4	37	0.0365	Yes
221	1	Zinc	233	32	32	60	1380	NoA
222	1	Alpha activity	85	3	3			NoC
222	1	Aluminum	14200	10	10	12000	4410	Yes
222	1	Americium-241	0.053	4	4		1.5	NoA
222	1	Antimony	0.41	10	4	0.21	0.552	NoA
222	1	Arsenic	11.84	37	21	7.9	0.238	Yes
222	1	Barium	145	10	10	170	140	NoB
222	1	Benzo(ghi)perylene	0.22	1	1			NoC
222	1	Beryllium	0.63	10	10	0.69	0.00567	NoB
222	1	Beta activity	106	3	3			NoC

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
222	1	Bis(2-ethylhexyl)phthalate	0.24	1	1			NoC
222	1	Cadmium	0.55	10	5	0.21	0.811	NoA
222	1	Calcium	315000	10	10	6100		NoE
222	1	Cesium-137	0.393	4	4	0.28	0.0267	Yes
222	1	Chromium	76.05	37	17	43	15.6	Yes
222	1	Cobalt	10.1	10	10	13	1.37	NoB
222	1	Cobalt-60	0.00654	1	1		0.00547	Yes
222	1	Copper	26.07	37	13	25	184	NoA
222	1	Fluoranthene	0.27	1	1		109	NoA
222	1	Iron	21667.43	37	37	28000	3220	NoB
222	1	Lead	38.15	37	35	23	400	NoA
222	1	Magnesium	7040	10	10	2100		NoE
222	1	Manganese	889	37	37	820	419	Yes
222	1	Mercury	0.0277	24	1	0.13	0.213	NoAB
222	1	Molybdenum	1.2	32	5		23	NoA
222	1	Neptunium-237	0.063	3	3		0.0839	NoA
222	1	Nickel	91.9	37	19	22	10.4	Yes
222	1	PCB, Total	1.4	6	6		0.0648	Yes
222	1	Phenanthrene	0.085	1	1			NoC
222	1	Plutonium-238	0.019	3	3		3.21	NoA
222	1	Plutonium-239/240	0.278	3	3		3.15	NoA
222	1	Pyrene	0.21	1	1		81.2	NoA
222	1	Selenium	1.4	37	5	0.7	23	NoA
222	1	Silver	0.05	37	5	2.7	2.61	NoAB
222	1	Sodium	324	10	10	340		NoBE
222	1	Technetium-99	10.4	3	3	2.8	101	NoA
222	1	Thallium	0.35	10	5	0.34	0.368	NoA
222	1	Thorium-228	0.79	3	3	1.6		NoB
222	1	Thorium-230	3.38	3	3	1.4	4.1	NoA
222	1	Thorium-232	0.82	3	3	1.5		NoB
222	1	Total PAH	0.17716	1	1		0.0197	Yes
222	1	Uranium	58.6	34	10	4.6	13.8	Yes
222	1	Uranium-234	10.4	4	4	1.2	5.47	Yes
222	1	Uranium-235	0.71	3	3	0.06	0.122	Yes
222	1	Uranium-238	19.6	4	4	1.2	0.517	Yes
222	1	Vanadium	30	10	10	37	0.0365	NoB
222	1	Zinc	101.06	37	37	60	1380	NoA
224	1	Acenaphthene	3.4	3	3		117	NoA
224	1	Alpha activity	50	4	4			NoC
224	1	Aluminum	8450	5	5	12000	4410	NoB
224	1	Americium-241	0.01	4	4		1.5	NoA
224	1	Anthracene	6	3	3		747	NoA
224	1	Antimony	0.39	5	3	0.21	0.552	NoA
224	1	Arsenic	11.95	24	13	7.9	0.238	Yes
224	1	Barium	107	5	5	170	140	NoAB
224	1	Benzo(ghi)perylene	0.36	2	2			NoC
224	1	Benzoic acid	0.45	2	1			NoC
224	1	Beryllium	0.63	5	5	0.69	0.00567	NoB
224	1	Beta activity	58.1	4	4			NoC
224	1	Cadmium	0.38	5	4	0.21	0.811	NoA
224	1	Calcium	125000	5	5	6100		NoE
224	1	Cesium-137	0.37	4	4	0.28	0.0267	Yes
224	1	Chromium	65.01	24	16	43	15.6	Yes
224	1	Cobalt	7.81	5	5	13	1.37	NoB
224	1	Copper	20.95	24	6	25	184	NoAB
224	1	Dibenzofuran	1	3	2			NoC

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
224	1	Fluoranthene	26	3	3		109	NoA
224	1	Fluorene	3	3	3		91.5	NoA
224	1	Iron	20979.76	24	24	28000	3220	NoB
224	1	Lead	19.86	24	20	23	400	NoAB
224	1	Magnesium	2300	5	5	2100		NoE
224	1	Manganese	1942.29	24	24	820	419	Yes
224	1	Mercury	6.89	24	5	0.13	0.213	Yes
224	1	Molybdenum	0.79	23	4		23	NoA
224	1	Naphthalene	0.6	3	3		1.15	NoA
224	1	Neptunium-237	0.0435	5	5		0.0839	NoA
224	1	Nickel	107.54	24	10	22	10.4	Yes
224	1	PCB, Total	475	33	12		0.0648	Yes
224	1	Phenanthrene	15	3	3			NoC
224	1	Plutonium-238	0.026	4	4		3.21	NoA
224	1	Plutonium-239/240	0.034	5	5		3.15	NoA
224	1	Pyrene	22	3	3		81.2	NoA
224	1	Selenium	1.2	24	4	0.7	23	NoA
224	1	Silver	0.15	24	4	2.7	2.61	NoAB
224	1	Sodium	127	5	4	340		NoBE
224	1	Technetium-99	3.66	5	5	2.8	101	NoA
224	1	Thallium	0.26	5	4	0.34	0.368	NoAB
224	1	Thorium-228	1.02	4	4	1.6		NoB
224	1	Thorium-230	1.15	4	4	1.4	4.1	NoAB
224	1	Thorium-232	1.04	4	4	1.5		NoB
224	1	Total PAH	45.271	4	4		0.0197	Yes
224	1	Uranium	42.7	24	11	4.6	13.8	Yes
224	1	Uranium-234	3.12	5	5	1.2	5.47	NoA
224	1	Uranium-235	0.25	4	4	0.06	0.122	Yes
224	1	Uranium-238	26.4	5	5	1.2	0.517	Yes
224	1	Vanadium	30.5	5	5	37	0.0365	NoB
224	1	Zinc	108.71	24	24	60	1380	NoA
225	1	Alpha activity	31.2	1	1			NoC
225	1	Aluminum	8480	1	1	12000	4410	NoB
225	1	Americium-241	0.0032	1	1		1.5	NoA
225	1	Antimony	0.54	1	1	0.21	0.552	NoA
225	1	Arsenic	8.1	3	2	7.9	0.238	Yes
225	1	Barium	89	1	1	170	140	NoAB
225	1	Beryllium	0.48	1	1	0.69	0.00567	NoB
225	1	Beta activity	37.1	1	1			NoC
225	1	Cadmium	0.12	1	1	0.21	0.811	NoAB
225	1	Calcium	4050	1	1	6100		NoBE
225	1	Cesium-137	0.417	1	1	0.28	0.0267	Yes
225	1	Chromium	25.5	1	1	43	15.6	NoB
225	1	Cobalt	7.3	1	1	13	1.37	NoB
225	1	Copper	12.3	1	1	25	184	NoAB
225	1	Fluoranthene	0.15	1	1		109	NoA
225	1	Iron	15700	3	3	28000	3220	NoB
225	1	Lead	16.9	3	3	23	400	NoAB
225	1	Magnesium	1560	1	1	2100		NoBE
225	1	Manganese	854.72	3	3	820	419	Yes
225	1	Mercury	0.031	1	1	0.13	0.213	NoAB
225	1	Molybdenum	0.85	1	1		23	NoA
225	1	Neptunium-237	0.011	1	1		0.0839	NoA
225	1	Nickel	12.1	1	1	22	10.4	NoB
225	1	Phenanthrene	0.075	1	1			NoC
225	1	Plutonium-238	0.026	1	1		3.21	NoA
225	1	Plutonium-239/240	0.019	1	1		3.15	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
225	1	Pyrene	0.1	1	1		81.2	NoA
225	1	Selenium	1.5	1	1	0.7	23	NoA
225	1	Silver	0.033	1	1	2.7	2.61	NoAB
225	1	Sodium	36.5	1	1	340		NoBE
225	1	Technetium-99	0.2	1	1	2.8	101	NoAB
225	1	Thallium	0.28	1	1	0.34	0.368	NoAB
225	1	Thorium-228	0.9	1	1	1.6		NoB
225	1	Thorium-230	1.03	1	1	1.4	4.1	NoAB
225	1	Thorium-232	0.92	1	1	1.5		NoB
225	1	Total PAH	0.077851	1	1		0.0197	Yes
225	1	Uranium	6.1	1	1	4.6	13.8	NoA
225	1	Uranium-234	1.13	1	1	1.2	5.47	NoAB
225	1	Uranium-235	0.055	1	1	0.06	0.122	NoAB
225	1	Uranium-238	2.04	1	1	1.2	0.517	Yes
225	1	Vanadium	26.9	1	1	37	0.0365	NoB
225	1	Zinc	48.61	3	3	60	1380	NoAB
226	1	Alpha activity	1540	3	3			NoC
226	1	Aluminum	9040	6	6	12000	4410	NoB
226	1	Americium-241	4.15	5	5		1.5	Yes
226	1	Antimony	0.66	6	4	0.21	0.552	Yes
226	1	Arsenic	10.46	44	16	7.9	0.238	Yes
226	1	Barium	120	6	6	170	140	NoAB
226	1	Beryllium	0.74	6	4	0.69	0.00567	Yes
226	1	Beta activity	1100	3	3			NoC
226	1	Bis(2-ethylhexyl)phthalate	0.33	1	1			NoC
226	1	Cadmium	0.31	6	4	0.21	0.811	NoA
226	1	Calcium	144000	6	6	6100		NoE
226	1	Cesium-137	6.51	5	5	0.28	0.0267	Yes
226	1	Chromium	65.16	44	17	43	15.6	Yes
226	1	Cobalt	13.4	6	6	13	1.37	Yes
226	1	Cobalt-60	0.0166	2	2		0.00547	Yes
226	1	Copper	46.51	44	9	25	184	NoA
226	1	Fluoranthene	0.15	3	1		109	NoA
226	1	Iron	27476.56	44	44	28000	3220	NoB
226	1	Lead	24.28	44	30	23	400	NoA
226	1	Magnesium	4150	6	6	2100		NoE
226	1	Manganese	2346.69	44	44	820	419	Yes
226	1	Mercury	9.74	44	5	0.13	0.213	Yes
226	1	Molybdenum	20.93	44	6		23	NoA
226	1	Neptunium-237	413	5	5		0.0839	Yes
226	1	Nickel	596.13	44	26	22	10.4	Yes
226	1	PCB, Total	5	67	12		0.0648	Yes
226	1	Phenanthrene	0.12	3	1			NoC
226	1	Plutonium-238	5.5	5	5		3.21	Yes
226	1	Plutonium-239/240	16.5	5	5		3.15	Yes
226	1	Pyrene	0.1	3	1		81.2	NoA
226	1	Selenium	1.4	44	4	0.7	23	NoA
226	1	Silver	0.054	44	4	2.7	2.61	NoAB
226	1	Sodium	141	6	4	340		NoBE
226	1	Technetium-99	124	5	5	2.8	101	Yes
226	1	Thallium	0.36	6	4	0.34	0.368	NoA
226	1	Thorium-228	0.7	5	5	1.6		NoB
226	1	Thorium-230	120	5	5	1.4	4.1	Yes
226	1	Thorium-232	1.39	5	5	1.5		NoB
226	1	Total PAH	0.09188	3	1		0.0197	Yes
226	1	Uranium	1286.45	45	34	4.6	13.8	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
226	1	Uranium-234	55	5	5	1.2	5.47	Yes
226	1	Uranium-235	2.61	9	9	0.06	0.122	Yes
226	1	Uranium-238	57	5	5	1.2	0.517	Yes
226	1	Vanadium	29.2	6	6	37	0.0365	NoB
226	1	Zinc	96.72	44	44	60	1380	NoA
227	1	Alpha activity	83	4	4			NoC
227	1	Aluminum	11200	9	9	12000	4410	NoB
227	1	Americium-241	0.0322	9	9		1.5	NoA
227	1	Arsenic	10.61	38	11	7.9	0.238	Yes
227	1	Barium	106	9	9	170	140	NoAB
227	1	Benzo(ghi)perylene	0.117	7	1			NoC
227	1	Beryllium	0.79	9	5	0.69	0.00567	Yes
227	1	Beta activity	345	4	4			NoC
227	1	Cadmium	0.19	9	2	0.21	0.811	NoAB
227	1	Calcium	104000	9	9	6100		NoE
227	1	Cesium-137	0.51	7	7	0.28	0.0267	Yes
227	1	Chromium	55.08	38	24	43	15.6	Yes
227	1	Cobalt	6.8	9	8	13	1.37	NoB
227	1	Cobalt-60	0.0153	3	3		0.00547	Yes
227	1	Copper	157.89	38	17	25	184	NoA
227	1	Di-n-butyl phthalate	0.86	7	3			NoC
227	1	Fluoranthene	0.249	6	2		109	NoA
227	1	Iron	19840.16	38	38	28000	3220	NoB
227	1	Lead	60.3	38	30	23	400	NoA
227	1	Magnesium	3530	9	9	2100		NoE
227	1	Manganese	746.6	38	38	820	419	NoB
227	1	Mercury	0.0236	38	2	0.13	0.213	NoAB
227	1	Molybdenum	0.76	18	1		23	NoA
227	1	Neptunium-237	2.53	6	6		0.0839	Yes
227	1	Nickel	653	38	17	22	10.4	Yes
227	1	PCB, Total	4.77	49	17		0.0648	Yes
227	1	Plutonium-238	0.022	7	7		3.21	NoA
227	1	Plutonium-239/240	0.102	9	9		3.15	NoA
227	1	Pyrene	0.269	7	1		81.2	NoA
227	1	Selenium	2.2	38	3	0.7	23	NoA
227	1	Silver	0.05	38	2	2.7	2.61	NoAB
227	1	Sodium	275	8	7	340		NoBE
227	1	Technetium-99	152	10	10	2.8	101	Yes
227	1	Thallium	0.51	3	1	0.34	0.368	Yes
227	1	Thorium-228	1.09	7	7	1.6		NoB
227	1	Thorium-230	1.21	7	7	1.4	4.1	NoAB
227	1	Thorium-232	1.09	7	7	1.5		NoB
227	1	Total PAH	0.337817	7	3		0.0197	Yes
227	1	Trichloroethene	0.0038	2	2		0.0234	NoA
227	1	Uranium	438	35	17	4.6	13.8	Yes
227	1	Uranium-234	48.1	7	7	1.2	5.47	Yes
227	1	Uranium-235	4.7	13	13	0.06	0.122	Yes
227	1	Uranium-238	146	7	7	1.2	0.517	Yes
227	1	Vanadium	31.1	9	9	37	0.0365	NoB
227	1	Zinc	164	38	37	60	1380	NoA
227	2	Alpha activity	28	2	2			NoC
227	2	Aluminum	11700	10	10	12000	4410	NoB
227	2	Americium-241	0.0422	7	7		1.5	NoA
227	2	Arsenic	9.58	32	10	7.9	0.238	Yes
227	2	Barium	275	10	10	170	140	Yes
227	2	Benzo(ghi)perylene	0.066	6	1			NoC
227	2	Beryllium	0.9	10	5	0.69	0.00567	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
227	2	Beta activity	31.8	2	2			NoC
227	2	Cadmium	0.63	10	3	0.21	0.811	NoA
227	2	Calcium	136000	10	10	6100		NoE
227	2	Cesium-137	0.123	7	7	0.28	0.0267	NoB
227	2	Chromium	56.31	32	19	43	15.6	Yes
227	2	Cobalt	24.4	10	10	13	1.37	Yes
227	2	Cobalt-60	0.0347	5	5		0.00547	Yes
227	2	Copper	62.27	32	12	25	184	NoA
227	2	Fluoranthene	1.2	5	3		109	NoA
227	2	Iron	17000	32	32	28000	3220	NoB
227	2	Lead	98.7	32	27	23	400	NoA
227	2	Magnesium	9050	10	10	2100		NoE
227	2	Manganese	2390	32	32	820	419	Yes
227	2	Mercury	8.41	32	3	0.13	0.213	Yes
227	2	Molybdenum	5.21	29	3		23	NoA
227	2	Neptunium-237	0.085	7	7		0.0839	Yes
227	2	Nickel	192.4	32	21	22	10.4	Yes
227	2	PCB, Total	12.6	61	37		0.0648	Yes
227	2	Phenanthrene	0.64	6	2			NoC
227	2	Plutonium-238	0.019	6	6		3.21	NoA
227	2	Plutonium-239/240	0.027	7	7		3.15	NoA
227	2	Pyrene	0.83	6	3		81.2	NoA
227	2	Selenium	1.3	32	3	0.7	23	NoA
227	2	Silver	10.07	32	4	2.7	2.61	Yes
227	2	Sodium	221	9	6	340		NoBE
227	2	Technetium-99	7.08	7	7	2.8	101	NoA
227	2	Thorium-228	1.04	7	7	1.6		NoB
227	2	Thorium-230	0.97	7	7	1.4	4.1	NoAB
227	2	Thorium-232	0.93	7	7	1.5		NoB
227	2	Total PAH	0.11568	6	2		0.0197	Yes
227	2	Uranium	15.05	30	14	4.6	13.8	Yes
227	2	Uranium-234	1.4	7	7	1.2	5.47	NoA
227	2	Uranium-235	0.0668	13	13	0.06	0.122	NoA
227	2	Uranium-238	2.45	7	7	1.2	0.517	Yes
227	2	Vanadium	39.2	10	10	37	0.0365	Yes
227	2	Zinc	198.95	32	32	60	1380	NoA
228	1	Alpha activity	43.5	3	3			NoC
228	1	Aluminum	10400	6	6	12000	4410	NoB
228	1	Americium-241	0.097	6	6		1.5	NoA
228	1	Antimony	0.63	6	3	0.21	0.552	Yes
228	1	Arsenic	27.9	29	12	7.9	0.238	Yes
228	1	Barium	135	6	6	170	140	NoAB
228	1	Benzo(ghi)perylene	0.045	1	1			NoC
228	1	Beryllium	0.75	6	3	0.69	0.00567	Yes
228	1	Beta activity	102	3	3			NoC
228	1	Cadmium	3.9	6	3	0.21	0.811	Yes
228	1	Calcium	268000	6	6	6100		NoE
228	1	Cesium-137	0.004	6	6	0.28	0.0267	NoAB
228	1	Chromium	188.9	29	15	43	15.6	Yes
228	1	Cobalt	6.3	6	6	13	1.37	NoB
228	1	Cobalt-60	0.0129	3	3		0.00547	Yes
228	1	Copper	97.99	29	8	25	184	NoA
228	1	Fluoranthene	0.07	1	1		109	NoA
228	1	Iron	37739.56	29	29	28000	3220	Yes
228	1	Lead	60.85	29	29	23	400	NoA
228	1	Magnesium	11000	6	6	2100		NoE
228	1	Manganese	997.07	29	29	820	419	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
228	1	Mercury	9.37	29	4	0.13	0.213	Yes
228	1	Molybdenum	1.2	29	3		23	NoA
228	1	Neptunium-237	0.8	6	6		0.0839	Yes
228	1	Nickel	79.16	29	13	22	10.4	Yes
228	1	Plutonium-238	0.023	6	6		3.21	NoA
228	1	Plutonium-239/240	0.604	6	6		3.15	NoA
228	1	Pyrene	0.065	1	1		81.2	NoA
228	1	Selenium	3.97	29	4	0.7	23	NoA
228	1	Silver	11.63	29	5	2.7	2.61	Yes
228	1	Sodium	151	6	3	340		NoBE
228	1	Technetium-99	18.8	6	6	2.8	101	NoA
228	1	Thallium	0.18	6	3	0.34	0.368	NoAB
228	1	Thorium-228	0.99	6	6	1.6		NoB
228	1	Thorium-230	3.18	6	6	1.4	4.1	NoA
228	1	Thorium-232	1	6	6	1.5		NoB
228	1	Total PAH	0.066874	1	1		0.0197	Yes
228	1	Uranium	15.13	30	7	4.6	13.8	Yes
228	1	Uranium-234	2.91	6	6	1.2	5.47	NoA
228	1	Uranium-235	0.178	10	10	0.06	0.122	Yes
228	1	Uranium-238	3.77	6	6	1.2	0.517	Yes
228	1	Vanadium	25.1	6	6	37	0.0365	NoB
228	1	Zinc	191.11	29	27	60	1380	NoA
229	1	Alpha activity	26.5	2	2			NoC
229	1	Aluminum	6510	2	2	12000	4410	NoB
229	1	Americium-241	0.004	2	2		1.5	NoA
229	1	Arsenic	11.66	19	11	7.9	0.238	Yes
229	1	Barium	109	2	2	170	140	NoAB
229	1	Benzo(ghi)perylene	0.088	1	1			NoC
229	1	Beryllium	0.43	2	2	0.69	0.00567	NoB
229	1	Beta activity	43.8	2	2			NoC
229	1	Cadmium	0.36	2	2	0.21	0.811	NoA
229	1	Calcium	238000	2	2	6100		NoE
229	1	Cesium-137	0.111	2	2	0.28	0.0267	NoB
229	1	Chromium	47.61	19	4	43	15.6	Yes
229	1	Cobalt	4.5	2	2	13	1.37	NoB
229	1	Copper	19.32	19	3	25	184	NoAB
229	1	Fluoranthene	0.29	1	1		109	NoA
229	1	Iron	18484.46	19	19	28000	3220	NoB
229	1	Lead	27.24	19	18	23	400	NoA
229	1	Magnesium	6990	2	2	2100		NoE
229	1	Manganese	538.61	19	19	820	419	NoB
229	1	Mercury	9.27	19	2	0.13	0.213	Yes
229	1	Molybdenum	0.39	19	2		23	NoA
229	1	Nickel	91.37	19	7	22	10.4	Yes
229	1	Phenanthrene	0.041	1	1			NoC
229	1	Plutonium-238	0.024	2	2		3.21	NoA
229	1	Plutonium-239/240	0.01	2	2		3.15	NoA
229	1	Pyrene	0.25	1	1		81.2	NoA
229	1	Selenium	1.2	19	2	0.7	23	NoA
229	1	Silver	0.041	19	2	2.7	2.61	NoAB
229	1	Sodium	132	2	2	340		NoBE
229	1	Technetium-99	7.73	2	2	2.8	101	NoA
229	1	Thorium-228	0.86	2	2	1.6		NoB
229	1	Thorium-230	1.38	2	2	1.4	4.1	NoAB
229	1	Thorium-232	0.84	2	2	1.5		NoB
229	1	Total PAH	0.15679	1	1		0.0197	Yes
229	1	Uranium	155.81	19	12	4.6	13.8	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
229	1	Uranium-234	2.62	2	2	1.2	5.47	NoA
229	1	Uranium-235	0.112	2	2	0.06	0.122	NoA
229	1	Uranium-238	2.86	2	2	1.2	0.517	Yes
229	1	Vanadium	20.9	2	2	37	0.0365	NoB
229	1	Zinc	832.98	19	19	60	1380	NoA
229	2	2-Methylnaphthalene	0.21	1	1			NoC
229	2	Acenaphthene	0.24	1	1		117	NoA
229	2	Alpha activity	70	4	4			NoC
229	2	Aluminum	6210	2	2	12000	4410	NoB
229	2	Americium-241	0.074	4	4		1.5	NoA
229	2	Anthracene	0.37	1	1		747	NoA
229	2	Arsenic	21.2	19	5	7.9	0.238	Yes
229	2	Barium	99.6	2	2	170	140	NoAB
229	2	Benzo(ghi)perylene	0.79	1	1			NoC
229	2	Beryllium	0.79	2	2	0.69	0.00567	Yes
229	2	Beta activity	127	4	4			NoC
229	2	Cadmium	0.31	2	2	0.21	0.811	NoA
229	2	Calcium	193000	2	2	6100		NoE
229	2	Cesium-137	0.321	4	4	0.28	0.0267	Yes
229	2	Chromium	48	19	5	43	15.6	Yes
229	2	Cobalt	7.7	2	2	13	1.37	NoB
229	2	Copper	51.93	19	3	25	184	NoA
229	2	Dibenzofuran	0.3	1	1			NoC
229	2	Fluoranthene	5.1	1	1		109	NoA
229	2	Fluorene	0.27	1	1		91.5	NoA
229	2	Iron	27400	19	19	28000	3220	NoB
229	2	Lead	22.53	19	19	23	400	NoAB
229	2	Magnesium	7610	2	2	2100		NoE
229	2	Manganese	681	19	19	820	419	NoB
229	2	Mercury	7.3	19	3	0.13	0.213	Yes
229	2	Molybdenum	1	19	2		23	NoA
229	2	Naphthalene	0.09	1	1		1.15	NoA
229	2	Neptunium-237	0.287	3	3		0.0839	Yes
229	2	Nickel	99.25	19	6	22	10.4	Yes
229	2	Phenanthrene	4.8	1	1			NoC
229	2	Plutonium-238	0.024	4	4		3.21	NoA
229	2	Plutonium-239/240	0.269	4	4		3.15	NoA
229	2	Pyrene	4	1	1		81.2	NoA
229	2	Selenium	1.1	19	2	0.7	23	NoA
229	2	Silver	0.042	19	2	2.7	2.61	NoAB
229	2	Sodium	131	2	2	340		NoBE
229	2	Technetium-99	43.4	4	4	2.8	101	NoA
229	2	Thorium-228	0.93	4	4	1.6		NoB
229	2	Thorium-230	2.42	4	4	1.4	4.1	NoA
229	2	Thorium-232	0.647	4	4	1.5		NoB
229	2	Total PAH	1.6949	2	2		0.0197	Yes
229	2	Uranium	74.5	21	6	4.6	13.8	Yes
229	2	Uranium-234	12.2	4	4	1.2	5.47	Yes
229	2	Uranium-235	0.84	4	4	0.06	0.122	Yes
229	2	Uranium-238	24.9	4	4	1.2	0.517	Yes
229	2	Vanadium	31.3	2	2	37	0.0365	NoB
229	2	Zinc	182.63	19	19	60	1380	NoA
483	1	Alpha activity	27.6	2	2			NoC
483	1	Aluminum	6200	3	3	12000	4410	NoB
483	1	Americium-241	0.0038	2	2		1.5	NoA
483	1	Antimony	0.23	3	2	0.21	0.552	NoA
483	1	Arsenic	12.45	12	7	7.9	0.238	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
483	1	Barium	72.6	3	3	170	140	NoAB
483	1	Beryllium	0.59	3	3	0.69	0.00567	NoB
483	1	Beta activity	25.7	2	2			NoC
483	1	Cadmium	0.78	3	3	0.21	0.811	NoA
483	1	Calcium	134000	3	3	6100		NoE
483	1	Cesium-137	-0.002	2	2	0.28	0.0267	NoAB
483	1	Chromium	20	12	3	43	15.6	NoB
483	1	Cobalt	11	3	3	13	1.37	NoB
483	1	Copper	7.4	12	3	25	184	NoAB
483	1	Iron	17200	12	12	28000	3220	NoB
483	1	Lead	11.3	12	8	23	400	NoAB
483	1	Magnesium	6730	3	3	2100		NoE
483	1	Manganese	761.19	12	11	820	419	NoB
483	1	Mercury	0.0258	12	2	0.13	0.213	NoAB
483	1	Molybdenum	0.68	12	3		23	NoA
483	1	Neptunium-237	0.007	2	2		0.0839	NoA
483	1	Nickel	116.56	12	5	22	10.4	Yes
483	1	Plutonium-238	0.009	2	2		3.21	NoA
483	1	Plutonium-239/240	0.008	2	2		3.15	NoA
483	1	Selenium	4.23	12	4	0.7	23	NoA
483	1	Silver	11.19	12	3	2.7	2.61	Yes
483	1	Sodium	125	3	3	340		NoBE
483	1	Technetium-99	-0.05	2	2	2.8	101	NoAB
483	1	Thallium	0.4	3	2	0.34	0.368	Yes
483	1	Thorium-228	0.83	2	2	1.6		NoB
483	1	Thorium-230	0.87	2	2	1.4	4.1	NoAB
483	1	Thorium-232	0.85	2	2	1.5		NoB
483	1	Total PAH	0.0239	1	1		0.0197	Yes
483	1	Uranium	9.38	12	4	4.6	13.8	NoA
483	1	Uranium-234	0.82	2	2	1.2	5.47	NoAB
483	1	Uranium-235	0.063	2	2	0.06	0.122	NoA
483	1	Uranium-238	0.93	2	2	1.2	0.517	NoB
483	1	Vanadium	21.6	3	3	37	0.0365	NoB
483	1	Zinc	181.13	12	12	60	1380	NoA
486	1	Alpha activity	30.9	1	1			NoC
486	1	Americium-241	0.014	1	1		1.5	NoA
486	1	Beta activity	29.5	1	1			NoC
486	1	Cesium-137	1.71	1	1	0.28	0.0267	Yes
486	1	Neptunium-237	0.0045	1	1		0.0839	NoA
486	1	Plutonium-238	0.01	1	1		3.21	NoA
486	1	Plutonium-239/240	0.033	1	1		3.15	NoA
486	1	Technetium-99	0.05	1	1	2.8	101	NoAB
486	1	Thorium-228	0.674	1	1	1.6		NoB
486	1	Thorium-230	0.83	1	1	1.4	4.1	NoAB
486	1	Thorium-232	0.76	1	1	1.5		NoB
486	1	Uranium	2.96	1	1	4.6	13.8	NoAB
486	1	Uranium-234	0.9	1	1	1.2	5.47	NoAB
486	1	Uranium-235	0.082	1	1	0.06	0.122	NoA
486	1	Uranium-238	0.98	1	1	1.2	0.517	NoB
487	1	Alpha activity	36.5	1	1			NoC
487	1	Americium-241	0.019	1	1		1.5	NoA
487	1	Beta activity	35.5	1	1			NoC
487	1	Cesium-137	1.38	1	1	0.28	0.0267	Yes
487	1	Neptunium-237	-0.0049	1	1		0.0839	NoA
487	1	Plutonium-238	0.018	1	1		3.21	NoA
487	1	Plutonium-239/240	0.042	1	1		3.15	NoA
487	1	Technetium-99	0.03	1	1	2.8	101	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
487	1	Thorium-228	0.448	1	1	1.6		NoB
487	1	Thorium-230	0.531	1	1	1.4	4.1	NoAB
487	1	Thorium-232	0.379	1	1	1.5		NoB
487	1	Uranium	2.05	1	1	4.6	13.8	NoAB
487	1	Uranium-234	0.508	1	1	1.2	5.47	NoAB
487	1	Uranium-235	0.033	1	1	0.06	0.122	NoAB
487	1	Uranium-238	0.68	1	1	1.2	0.517	NoB
488	1	Acenaphthene	0.041	1	1		117	NoA
488	1	Alpha activity	39.9	3	3			NoC
488	1	Aluminum	7410	2	2	12000	4410	NoB
488	1	Americium-241	0.025	3	3		1.5	NoA
488	1	Anthracene	0.066	1	1		747	NoA
488	1	Antimony	0.31	2	2	0.21	0.552	NoA
488	1	Arsenic	8.89	7	4	7.9	0.238	Yes
488	1	Barium	111	2	2	170	140	NoAB
488	1	Benzo(ghi)perylene	0.09	1	1			NoC
488	1	Beryllium	0.52	2	2	0.69	0.00567	NoB
488	1	Beta activity	35.1	3	3			NoC
488	1	Bis(2-ethylhexyl)phthalate	0.17	1	1			NoC
488	1	Cadmium	0.18	2	2	0.21	0.811	NoAB
488	1	Calcium	3110	2	2	6100		NoBE
488	1	Cesium-137	0.52	3	3	0.28	0.0267	Yes
488	1	Chromium	53.05	7	3	43	15.6	Yes
488	1	Cobalt	5	2	2	13	1.37	NoB
488	1	Copper	10.6	7	2	25	184	NoAB
488	1	Fluoranthene	0.47	1	1		109	NoA
488	1	Iron	17853.51	7	7	28000	3220	NoB
488	1	Lead	27.43	7	5	23	400	NoA
488	1	Magnesium	1020	2	2	2100		NoBE
488	1	Manganese	364.29	7	7	820	419	NoAB
488	1	Mercury	0.0503	7	2	0.13	0.213	NoAB
488	1	Molybdenum	0.55	7	2		23	NoA
488	1	Neptunium-237	0.071	3	3		0.0839	NoA
488	1	Nickel	11.9	7	2	22	10.4	NoB
488	1	PCB, Total	10.3	5	1		0.0648	Yes
488	1	Phenanthrene	0.33	1	1			NoC
488	1	Plutonium-238	0.025	3	3		3.21	NoA
488	1	Plutonium-239/240	0.062	3	3		3.15	NoA
488	1	Pyrene	0.39	1	1		81.2	NoA
488	1	Selenium	1.6	7	2	0.7	23	NoA
488	1	Silver	0.085	7	2	2.7	2.61	NoAB
488	1	Sodium	69.5	2	2	340		NoBE
488	1	Technetium-99	1.66	3	3	2.8	101	NoAB
488	1	Thallium	0.22	2	2	0.34	0.368	NoAB
488	1	Thorium-228	0.93	3	3	1.6		NoB
488	1	Thorium-230	1.47	3	3	1.4	4.1	NoA
488	1	Thorium-232	0.95	3	3	1.5		NoB
488	1	Total PAH	0.24975	1	1		0.0197	Yes
488	1	Uranium	14.8	8	4	4.6	13.8	Yes
488	1	Uranium-234	2.84	3	3	1.2	5.47	NoA
488	1	Uranium-235	0.149	3	3	0.06	0.122	Yes
488	1	Uranium-238	4.54	3	3	1.2	0.517	Yes
488	1	Vanadium	24.7	2	2	37	0.0365	NoB
488	1	Zinc	54.17	7	7	60	1380	NoAB
489	1	2-Butanone	0.014	1	1			NoC
489	1	Acetone	0.14	1	1			NoC

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
489	1	Alpha activity	30.5	2	2			NoC
489	1	Aluminum	7080	2	2	12000	4410	NoB
489	1	Americium-241	0.011	2	2		1.5	NoA
489	1	Antimony	0.31	2	2	0.21	0.552	NoA
489	1	Arsenic	10	3	3	7.9	0.238	Yes
489	1	Barium	109	2	2	170	140	NoAB
489	1	Beryllium	0.47	2	2	0.69	0.00567	NoB
489	1	Beta activity	30.7	2	2			NoC
489	1	Bis(2-ethylhexyl)phthalate	0.19	1	1			NoC
489	1	Cadmium	0.87	2	2	0.21	0.811	Yes
489	1	Calcium	18400	2	2	6100		NoE
489	1	Cesium-137	0.073	2	2	0.28	0.0267	NoB
489	1	Chromium	41.63	3	2	43	15.6	NoB
489	1	Cobalt	7.3	2	2	13	1.37	NoB
489	1	Copper	9.5	3	2	25	184	NoAB
489	1	Fluoranthene	0.14	2	2		109	NoA
489	1	Iron	17100	3	3	28000	3220	NoB
489	1	Lead	13.9	3	3	23	400	NoAB
489	1	Magnesium	1330	2	2	2100		NoBE
489	1	Manganese	680	3	3	820	419	NoB
489	1	Mercury	0.0339	3	2	0.13	0.213	NoAB
489	1	Methylene chloride	0.02	2	2			NoC
489	1	Molybdenum	0.74	3	2		23	NoA
489	1	Neptunium-237	0.011	2	2		0.0839	NoA
489	1	Nickel	78.82	3	3	22	10.4	Yes
489	1	Phenanthrene	0.081	1	1			NoC
489	1	Plutonium-238	0.01	2	2		3.21	NoA
489	1	Plutonium-239/240	0.011	2	2		3.15	NoA
489	1	Pyrene	0.12	1	1		81.2	NoA
489	1	Selenium	1.4	3	2	0.7	23	NoA
489	1	Silver	0.041	3	2	2.7	2.61	NoAB
489	1	Sodium	227	2	2	340		NoBE
489	1	Technetium-99	0.31	2	2	2.8	101	NoAB
489	1	Thallium	0.27	2	2	0.34	0.368	NoAB
489	1	Thorium-228	1	2	2	1.6		NoB
489	1	Thorium-230	0.95	2	2	1.4	4.1	NoAB
489	1	Thorium-232	0.99	2	2	1.5		NoB
489	1	Total PAH	0.082183	2	2		0.0197	Yes
489	1	Uranium	12.38	3	2	4.6	13.8	NoA
489	1	Uranium-234	1.26	2	2	1.2	5.47	NoA
489	1	Uranium-235	0.084	2	2	0.06	0.122	NoA
489	1	Uranium-238	1.47	2	2	1.2	0.517	Yes
489	1	Vanadium	27	2	2	37	0.0365	NoB
489	1	Zinc	212	3	3	60	1380	NoA
492	1	Alpha activity	37.3	1	1			NoC
492	1	Aluminum	9920	7	7	12000	4410	NoB
492	1	Americium-241	0.739	6	6		1.5	NoA
492	1	Arsenic	14.7	7	7	7.9	0.238	Yes
492	1	Barium	102	7	7	170	140	NoAB
492	1	Beryllium	10.4	6	5	0.69	0.00567	Yes
492	1	Beta activity	34.1	1	1			NoC
492	1	Cadmium	3.14	6	5	0.21	0.811	Yes
492	1	Calcium	2110	7	7	6100		NoBE
492	1	Cesium-137	0.346	6	6	0.28	0.0267	Yes
492	1	Chromium	1040	17	7	43	15.6	Yes
492	1	Cobalt	10.7	7	7	13	1.37	NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
492	1	Cobalt-60	0.00963	3	3		0.00547	Yes
492	1	Copper	84.7	7	7	25	184	NoA
492	1	Iron	16900	7	7	28000	3220	NoB
492	1	Lead	28	17	15	23	400	NoA
492	1	Magnesium	1250	7	7	2100		NoBE
492	1	Manganese	426	7	7	820	419	NoB
492	1	Mercury	0.02	7	2	0.13	0.213	NoAB
492	1	Neptunium-237	0.209	6	6		0.0839	Yes
492	1	Nickel	16.7	6	6	22	10.4	NoB
492	1	PCB, Total	44.1	11	3		0.0648	Yes
492	1	Plutonium-238	0.0336	6	6		3.21	NoA
492	1	Plutonium-239/240	0.0531	6	6		3.15	NoA
492	1	Selenium	0.65	3	2	0.7	23	NoAB
492	1	Sodium	297	6	2	340		NoBE
492	1	Technetium-99	14	6	6	2.8	101	NoA
492	1	Thorium-228	0.738	6	6	1.6		NoB
492	1	Thorium-230	0.971	6	6	1.4	4.1	NoAB
492	1	Thorium-232	0.72	6	6	1.5		NoB
492	1	Uranium	1770	16	6	4.6	13.8	Yes
492	1	Uranium-234	53.9	6	6	1.2	5.47	Yes
492	1	Uranium-235	5.72	11	11	0.06	0.122	Yes
492	1	Uranium-238	383	6	6	1.2	0.517	Yes
492	1	Vanadium	43.2	7	7	37	0.0365	Yes
492	1	Zinc	662	6	6	60	1380	NoA
493	1	Alpha activity	28.3	3	3			NoC
493	1	Aluminum	14400	22	22	12000	4410	Yes
493	1	Americium-241	0.0771	16	16		1.5	NoA
493	1	Antimony	0.5	22	2	0.21	0.552	NoA
493	1	Arsenic	11.8	24	13	7.9	0.238	Yes
493	1	Barium	404	22	22	170	140	Yes
493	1	Beryllium	0.991	22	11	0.69	0.00567	Yes
493	1	Beta activity	31.2	3	3			NoC
493	1	Cadmium	0.1	22	2	0.21	0.811	NoAB
493	1	Calcium	156000	22	22	6100		NoE
493	1	Cesium-137	0.292	16	16	0.28	0.0267	Yes
493	1	Chromium	66.1	24	22	43	15.6	Yes
493	1	Cobalt	37.9	22	21	13	1.37	Yes
493	1	Cobalt-60	0.0136	13	13		0.00547	Yes
493	1	Copper	98.7	24	22	25	184	NoA
493	1	Di-n-butyl phthalate	0.98	11	4			NoC
493	1	Iron	24100	24	24	28000	3220	NoB
493	1	Lead	47.9	24	6	23	400	NoA
493	1	Magnesium	8600	22	22	2100		NoE
493	1	Manganese	3550	24	24	820	419	Yes
493	1	Mercury	0.26	22	2	0.13	0.213	Yes
493	1	Methylene chloride	0.032	13	1			NoC
493	1	Molybdenum	1.6	4	2		23	NoA
493	1	Neptunium-237	0.122	16	16		0.0839	Yes
493	1	Nickel	213	24	22	22	10.4	Yes
493	1	PCB, Total	0.26	15	2		0.0648	Yes
493	1	Plutonium-238	0.022	16	16		3.21	NoA
493	1	Plutonium-239/240	0.0431	16	16		3.15	NoA
493	1	Selenium	2.6	24	7	0.7	23	NoA
493	1	Silver	0.036	24	2	2.7	2.61	NoAB
493	1	Sodium	70.9	2	2	340		NoBE
493	1	Technetium-99	38.6	13	13	2.8	101	NoA
493	1	Thallium	0.69	22	2	0.34	0.368	Yes

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A = <Child Resident NAL C = no NAL available
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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
493	1	Thorium-228	1.1	16	16	1.6		NoB
493	1	Thorium-230	1.19	16	16	1.4	4.1	NoAB
493	1	Thorium-232	1.1	16	16	1.5		NoB
493	1	Total PAH	0.5	14	13		0.0197	Yes
493	1	Uranium	10.7	25	4	4.6	13.8	NoA
493	1	Uranium-234	2.37	16	16	1.2	5.47	NoA
493	1	Uranium-235	0.165	16	16	0.06	0.122	Yes
493	1	Uranium-238	5.5	16	16	1.2	0.517	Yes
493	1	Vanadium	40.5	22	22	37	0.0365	Yes
493	1	Zinc	75.9	24	22	60	1380	NoA
517	1	Alpha activity	30.8	3	3			NoC
517	1	Aluminum	12000	6	6	12000	4410	Yes
517	1	Americium-241	0.0756	7	7		1.5	NoA
517	1	Antimony	0.23	6	2	0.21	0.552	NoA
517	1	Arsenic	6.73	7	5	7.9	0.238	NoB
517	1	Barium	137	6	6	170	140	NoAB
517	1	Beryllium	0.739	6	5	0.69	0.00567	Yes
517	1	Beta activity	32.5	3	3			NoC
517	1	Bromomethane	0.00051	5	1			NoC
517	1	Cadmium	0.1	6	2	0.21	0.811	NoAB
517	1	Calcium	12200	6	6	6100		NoE
517	1	Cesium-137	0.096	7	7	0.28	0.0267	NoB
517	1	Chloroform	0.0002	1	1		0.122	NoA
517	1	Chromium	49.1	7	6	43	15.6	Yes
517	1	Cobalt	9.8	6	6	13	1.37	NoB
517	1	Cobalt-60	0.00639	4	4		0.00547	Yes
517	1	Copper	33.7	7	6	25	184	NoA
517	1	Di-n-butyl phthalate	2	5	2			NoC
517	1	Fluoranthene	0.67	5	1		109	NoA
517	1	Iron	20800	7	7	28000	3220	NoB
517	1	Lead	32.2	7	4	23	400	NoA
517	1	Magnesium	1870	6	6	2100		NoBE
517	1	Manganese	562	7	7	820	419	NoB
517	1	Mercury	0.0793	7	2	0.13	0.213	NoAB
517	1	Methylene chloride	0.015	6	3			NoC
517	1	Molybdenum	0.9	3	2		23	NoA
517	1	Neptunium-237	1.07	7	7		0.0839	Yes
517	1	Nickel	172	7	6	22	10.4	Yes
517	1	PCB, Total	0.5	5	1		0.0648	Yes
517	1	Plutonium-238	0.018	7	7		3.21	NoA
517	1	Plutonium-239/240	0.178	7	7		3.15	NoA
517	1	Pyrene	0.54	5	1		81.2	NoA
517	1	Selenium	1.4	7	2	0.7	23	NoA
517	1	Silver	0.042	7	2	2.7	2.61	NoAB
517	1	Sodium	319	2	2	340		NoBE
517	1	Technetium-99	83.2	7	7	2.8	101	NoA
517	1	Thallium	0.42	6	2	0.34	0.368	Yes
517	1	Thorium-228	0.99	7	7	1.6		NoB
517	1	Thorium-230	1	7	7	1.4	4.1	NoAB
517	1	Thorium-232	0.98	7	7	1.5		NoB
517	1	Toluene	0.00058	1	1			NoC
517	1	Total PAH	0.0095	5	1		0.0197	NoA
517	1	Uranium	3.02	8	3	4.6	13.8	NoAB
517	1	Uranium-234	2.48	7	7	1.2	5.47	NoA
517	1	Uranium-235	0.16	13	13	0.06	0.122	Yes
517	1	Uranium-238	3.89	7	7	1.2	0.517	Yes
517	1	Vanadium	26.7	6	6	37	0.0365	NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
517	1	Zinc	1250	7	7	60	1380	NoA
518	1	Acenaphthene	31	25	7		117	NoA
518	1	Acenaphthylene	1.2	25	1			NoC
518	1	Acetone	0.13	2	1			NoC
518	1	Alpha activity	18.1	1	1			NoC
518	1	Aluminum	11700	11	11	12000	4410	NoB
518	1	Americium-241	0.0528	7	7		1.5	NoA
518	1	Anthracene	40	25	8		747	NoA
518	1	Arsenic	9.3	11	5	7.9	0.238	Yes
518	1	Barium	132	11	11	170	140	NoAB
518	1	Benzo(ghi)perylene	28	25	10			NoC
518	1	Beryllium	0.63	11	5	0.69	0.00567	NoB
518	1	Beta activity	33.1	1	1			NoC
518	1	Bis(2-ethylhexyl)phthalate	5.7	24	16			NoC
518	1	Calcium	207000	11	11	6100		NoE
518	1	Carbazole	37	22	5		8.72	Yes
518	1	Cesium-137	0.0741	7	7	0.28	0.0267	NoB
518	1	Chromium	14	11	11	43	15.6	NoAB
518	1	Cobalt	17.6	11	11	13	1.37	Yes
518	1	Cobalt-60	0.00446	6	6		0.00547	NoA
518	1	Copper	10.8	11	11	25	184	NoAB
518	1	Dibenzofuran	1.65	3	1			NoC
518	1	Fluoranthene	12.1	4	2		109	NoA
518	1	Fluorene	27	25	6		91.5	NoA
518	1	Iron	17000	11	11	28000	3220	NoB
518	1	Lead	31.9	11	5	23	400	NoA
518	1	Magnesium	4780	11	11	2100		NoE
518	1	Manganese	493	11	11	820	419	NoB
518	1	Methylene chloride	0.006	9	4			NoC
518	1	Neptunium-237	0.016	7	7		0.0839	NoA
518	1	Nickel	24.8	11	11	22	10.4	Yes
518	1	PCB, Total	1.64	15	3		0.0648	Yes
518	1	Phenanthrene	64	25	13			NoC
518	1	Plutonium-238	0.014	7	7		3.21	NoA
518	1	Plutonium-239/240	0.013	7	7		3.15	NoA
518	1	Pyrene	150	25	17		81.2	Yes
518	1	Selenium	1.06	9	1	0.7	23	NoA
518	1	Sodium	220	6	5	340		NoBE
518	1	Technetium-99	17.3	7	7	2.8	101	NoA
518	1	Thorium-228	0.76	7	7	1.6		NoB
518	1	Thorium-230	1.11	7	7	1.4	4.1	NoAB
518	1	Thorium-232	0.73	7	7	1.5		NoB
518	1	Total PAH	12.71007	25	2		0.0197	Yes
518	1	Uranium	217	7	3	4.6	13.8	Yes
518	1	Uranium-234	2.56	7	7	1.2	5.47	NoA
518	1	Uranium-235	0.163	14	14	0.06	0.122	Yes
518	1	Uranium-238	3.04	7	7	1.2	0.517	Yes
518	1	Vanadium	25.4	11	11	37	0.0365	NoB
518	1	Zinc	76.1	11	6	60	1380	NoA
520	1	Alpha activity	101	3	3			NoC
520	1	Aluminum	12100	10	10	12000	4410	Yes
520	1	Americium-241	0.339	5	5		1.5	NoA
520	1	Antimony	0.4	10	2	0.21	0.552	NoA
520	1	Arsenic	8.83	30	11	7.9	0.238	Yes
520	1	Barium	258	10	10	170	140	Yes
520	1	Beryllium	0.7	10	7	0.69	0.00567	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
520	1	Beta activity	64.3	3	3			NoC
520	1	Cadmium	0.6	10	2	0.21	0.811	NoA
520	1	Calcium	220000	10	10	6100		NoE
520	1	Cesium-137	1.61	4	4	0.28	0.0267	Yes
520	1	Chromium	67.54	30	15	43	15.6	Yes
520	1	Cobalt	17.9	10	10	13	1.37	Yes
520	1	Cobalt-60	-0.0153	1	1		0.00547	NoA
520	1	Copper	38.01	30	12	25	184	NoA
520	1	Fluoranthene	0.039	2	1		109	NoA
520	1	Iron	32605.35	30	30	28000	3220	Yes
520	1	Lead	26.82	30	19	23	400	NoA
520	1	Magnesium	18400	10	10	2100		NoE
520	1	Manganese	1550	30	29	820	419	Yes
520	1	Mercury	10.68	30	4	0.13	0.213	Yes
520	1	Molybdenum	1.1	23	2		23	NoA
520	1	Neptunium-237	1.1	5	5		0.0839	Yes
520	1	Nickel	648	30	18	22	10.4	Yes
520	1	Plutonium-238	0.04	4	4		3.21	NoA
520	1	Plutonium-239/240	1.23	5	5		3.15	NoA
520	1	Potassium	810	8	8	950		NoBE
520	1	Pyrene	0.038	2	1		81.2	NoA
520	1	Radium-226	1.49	1	1	1.5		NoB
520	1	Selenium	4.48	30	3	0.7	23	NoA
520	1	Silver	13.95	30	4	2.7	2.61	Yes
520	1	Sodium	880	10	9	340		NoE
520	1	Technetium-99	7.93	6	6	2.8	101	NoA
520	1	Thallium	0.32	10	2	0.34	0.368	NoAB
520	1	Thorium-228	1.05	4	4	1.6		NoB
520	1	Thorium-230	18.7	4	4	1.4	4.1	Yes
520	1	Thorium-232	1.05	4	4	1.5		NoB
520	1	Thorium-234	1.38	1	1			NoC
520	1	Total PAH	0.031836	2	1		0.0197	Yes
520	1	Uranium	22.94	24	7	4.6	13.8	Yes
520	1	Uranium-234	3.27	4	4	1.2	5.47	NoA
520	1	Uranium-235	0.19	7	7	0.06	0.122	Yes
520	1	Uranium-238	6.14	4	4	1.2	0.517	Yes
520	1	Vanadium	26.5	10	10	37	0.0365	NoB
520	1	Zinc	77.66	30	29	60	1380	NoA
520	2	Acetone	0.011	1	1			NoC
520	2	Alpha activity	31.2	2	2			NoC
520	2	Aluminum	10600	10	10	12000	4410	NoB
520	2	Americium-241	0.0594	9	9		1.5	NoA
520	2	Anthracene	0.156	8	1		747	NoA
520	2	Antimony	0.29	10	2	0.21	0.552	NoA
520	2	Arsenic	10.4	36	13	7.9	0.238	Yes
520	2	Barium	115	10	10	170	140	NoAB
520	2	Benzo(ghi)perylene	0.13	10	3			NoC
520	2	Beryllium	0.67	10	5	0.69	0.00567	NoB
520	2	Beta activity	30.7	2	2			NoC
520	2	Bis(2-ethylhexyl)phthalate	0.42	8	1			NoC
520	2	Cadmium	0.44	10	2	0.21	0.811	NoA
520	2	Calcium	282000	10	10	6100		NoE
520	2	Cesium-134	0.00302	6	6			NoC
520	2	Cesium-137	0.0523	8	8	0.28	0.0267	NoB
520	2	Chromium	66.65	36	18	43	15.6	Yes
520	2	Cobalt	8.4	10	10	13	1.37	NoB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
520	2	Cobalt-60	0.0052	6	6		0.00547	NoA
520	2	Copper	65.54	36	17	25	184	NoA
520	2	Fluoranthene	0.636	2	2		109	NoA
520	2	Iron	18363.05	36	36	28000	3220	NoB
520	2	Lead	27.06	36	27	23	400	NoA
520	2	Lithium	8.08	6	6			NoC
520	2	Magnesium	5490	10	10	2100		NoE
520	2	Manganese	1761.69	36	36	820	419	Yes
520	2	Mercury	11.88	36	3	0.13	0.213	Yes
520	2	Molybdenum	1.2	28	2		23	NoA
520	2	Neptunium-237	0.11	9	9		0.0839	Yes
520	2	Nickel	809.76	36	25	22	10.4	Yes
520	2	Phenanthrene	0.461	8	1			NoC
520	2	Plutonium-238	0.014	8	8		3.21	NoA
520	2	Plutonium-239/240	0.00771	9	9		3.15	NoA
520	2	Potassium	578	2	2	950		NoBE
520	2	Pyrene	0.663	8	2		81.2	NoA
520	2	Radium-226	1.56	1	1	1.5		NoC
520	2	Selenium	1.2	36	2	0.7	23	NoA
520	2	Silver	0.067	36	2	2.7	2.61	NoAB
520	2	Sodium	394	4	4	340		NoE
520	2	Technetium-99	3.85	9	9	2.8	101	NoA
520	2	Thallium	0.17	10	2	0.34	0.368	NoAB
520	2	Thorium-228	1.06	8	8	1.6		NoB
520	2	Thorium-230	1.03	8	8	1.4	4.1	NoAB
520	2	Thorium-232	1.05	8	8	1.5		NoB
520	2	Thorium-234	1.42	1	1			NoC
520	2	Total PAH	0.496717	10	3		0.0197	Yes
520	2	Uranium	114	34	13	4.6	13.8	Yes
520	2	Uranium-234	1.35	8	8	1.2	5.47	NoA
520	2	Uranium-235	0.097	15	15	0.06	0.122	NoA
520	2	Uranium-238	2.06	8	8	1.2	0.517	Yes
520	2	Vanadium	26	10	10	37	0.0365	NoB
520	2	Zinc	128	36	36	60	1380	NoA
520	3	Alpha activity	24.9	2	2			NoC
520	3	Aluminum	6330	2	2	12000	4410	NoB
520	3	Americium-241	0.0082	2	2		1.5	NoA
520	3	Antimony	0.51	2	2	0.21	0.552	NoA
520	3	Arsenic	11.06	30	8	7.9	0.238	Yes
520	3	Barium	108	2	2	170	140	NoAB
520	3	Benzo(ghi)perylene	0.079	1	1			NoC
520	3	Beryllium	0.42	2	2	0.69	0.00567	NoB
520	3	Beta activity	33.2	2	2			NoC
520	3	Cadmium	0.47	2	2	0.21	0.811	NoA
520	3	Calcium	267000	2	2	6100		NoE
520	3	Cesium-137	0.04	2	2	0.28	0.0267	NoB
520	3	Chromium	65.71	30	10	43	15.6	Yes
520	3	Cobalt	5.4	2	2	13	1.37	NoB
520	3	Copper	239.62	30	6	25	184	Yes
520	3	Fluoranthene	0.21	1	1		109	NoA
520	3	Iron	26251.99	30	30	28000	3220	NoB
520	3	Lead	22.74	30	27	23	400	NoAB
520	3	Magnesium	19300	2	2	2100		NoE
520	3	Manganese	617	30	30	820	419	NoB
520	3	Mercury	6.65	30	3	0.13	0.213	Yes
520	3	Molybdenum	0.73	30	2		23	NoA
520	3	Neptunium-237	0.034	2	2		0.0839	NoA

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
520	3	Nickel	630.99	30	12	22	10.4	Yes
520	3	Phenanthrene	0.059	1	1			NoC
520	3	Plutonium-238	0.01	2	2		3.21	NoA
520	3	Plutonium-239/240	0.0056	2	2		3.15	NoA
520	3	Pyrene	0.18	1	1		81.2	NoA
520	3	Selenium	3.9	30	3	0.7	23	NoA
520	3	Silver	13.32	30	5	2.7	2.61	Yes
520	3	Sodium	227	2	2	340		NoBE
520	3	Technetium-99	0.78	2	2	2.8	101	NoAB
520	3	Thallium	0.18	2	2	0.34	0.368	NoAB
520	3	Thorium-228	1.04	2	2	1.6		NoB
520	3	Thorium-230	1.05	2	2	1.4	4.1	NoAB
520	3	Thorium-232	1	2	2	1.5		NoB
520	3	Total PAH	0.11809	2	2		0.0197	Yes
520	3	Uranium	28.18	30	10	4.6	13.8	Yes
520	3	Uranium-234	0.98	2	2	1.2	5.47	NoAB
520	3	Uranium-235	0.061	2	2	0.06	0.122	NoA
520	3	Uranium-238	1.57	2	2	1.2	0.517	Yes
520	3	Vanadium	19.6	2	2	37	0.0365	NoB
520	3	Zinc	146.19	30	30	60	1380	NoA
520	4	Alpha activity	26.4	2	2			NoC
520	4	Aluminum	6360	6	6	12000	4410	NoB
520	4	Americium-241	0.092	2	2		1.5	NoA
520	4	Anthracene	0.085	1	1		747	NoA
520	4	Antimony	0.44	6	2	0.21	0.552	NoA
520	4	Arsenic	9.35	35	13	7.9	0.238	Yes
520	4	Barium	87.8	6	6	170	140	NoAB
520	4	Benzo(ghi)perylene	0.27	1	1			NoC
520	4	Beryllium	0.965	6	6	0.69	0.00567	Yes
520	4	Beta activity	51	2	2			NoC
520	4	Bis(2-ethylhexyl)phthalate	0.1	1	1			NoC
520	4	Cadmium	1.67	6	4	0.21	0.811	Yes
520	4	Calcium	278000	6	6	6100		NoE
520	4	Cesium-137	0.056	2	2	0.28	0.0267	NoB
520	4	Chromium	66	35	15	43	15.6	Yes
520	4	Cobalt	6.42	6	6	13	1.37	NoB
520	4	Copper	242.69	35	9	25	184	Yes
520	4	Fluoranthene	0.69	1	1		109	NoA
520	4	Iron	30200	35	35	28000	3220	Yes
520	4	Lead	24.8	35	33	23	400	NoA
520	4	Magnesium	16200	6	6	2100		NoE
520	4	Manganese	1528.35	35	35	820	419	Yes
520	4	Mercury	9.69	35	6	0.13	0.213	Yes
520	4	Molybdenum	0.86	31	2		23	NoA
520	4	Neptunium-237	0.74	2	2		0.0839	Yes
520	4	Nickel	587.23	35	18	22	10.4	Yes
520	4	Phenanthrene	0.32	1	1			NoC
520	4	Plutonium-238	0.021	2	2		3.21	NoA
520	4	Plutonium-239/240	0.459	2	2		3.15	NoA
520	4	Potassium	357	4	4	950		NoBE
520	4	Pyrene	0.6	1	1		81.2	NoA
520	4	Selenium	4.55	35	3	0.7	23	NoA
520	4	Silver	12.25	35	4	2.7	2.61	Yes
520	4	Sodium	333	6	6	340		NoBE
520	4	Technetium-99	4.85	2	2	2.8	101	NoA
520	4	Thallium	0.12	6	2	0.34	0.368	NoAB

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520	4	Thorium-228	1.05	2	2	1.6		NoB
520	4	Thorium-230	1.07	2	2	1.4	4.1	NoAB
520	4	Thorium-232	0.86	2	2	1.5		NoB
520	4	Total PAH	0.55242	1	1		0.0197	Yes
520	4	Uranium	48.82	31	9	4.6	13.8	Yes
520	4	Uranium-234	3.69	2	2	1.2	5.47	NoA
520	4	Uranium-235	0.242	2	2	0.06	0.122	Yes
520	4	Uranium-238	6.26	2	2	1.2	0.517	Yes
520	4	Vanadium	62.5	6	6	37	0.0365	Yes
520	4	Zinc	372.55	35	35	60	1380	NoA
520	5	Alpha activity	21.9	1	1			NoC
520	5	Aluminum	10100	2	2	12000	4410	NoB
520	5	Americium-241	0.011	1	1		1.5	NoA
520	5	Anthracene	0.073	1	1		747	NoA
520	5	Antimony	0.96	2	2	0.21	0.552	Yes
520	5	Arsenic	10.4	23	7	7.9	0.238	Yes
520	5	Barium	180	2	2	170	140	Yes
520	5	Benzo(ghi)perylene	0.15	1	1			NoC
520	5	Beryllium	0.92	2	2	0.69	0.00567	Yes
520	5	Beta activity	20.4	1	1			NoC
520	5	Bis(2-ethylhexyl)phthalate	0.072	1	1			NoC
520	5	Cadmium	0.48	2	2	0.21	0.811	NoA
520	5	Calcium	272000	2	2	6100		NoE
520	5	Cesium-137	0.067	1	1	0.28	0.0267	NoB
520	5	Chromium	49.39	23	8	43	15.6	Yes
520	5	Cobalt	5.4	2	2	13	1.37	NoB
520	5	Copper	20.5	23	2	25	184	NoAB
520	5	Fluoranthene	0.61	1	1		109	NoA
520	5	Iron	29000	23	23	28000	3220	Yes
520	5	Lead	26.05	23	23	23	400	NoA
520	5	Magnesium	7140	2	2	2100		NoE
520	5	Manganese	992.83	23	23	820	419	Yes
520	5	Mercury	6.94	23	2	0.13	0.213	Yes
520	5	Molybdenum	1.3	23	2		23	NoA
520	5	Neptunium-237	0.155	1	1		0.0839	Yes
520	5	Nickel	220.42	23	9	22	10.4	Yes
520	5	Phenanthrene	0.27	1	1			NoC
520	5	Plutonium-238	0.005	1	1		3.21	NoA
520	5	Plutonium-239/240	0.018	1	1		3.15	NoA
520	5	Pyrene	0.5	1	1		81.2	NoA
520	5	Selenium	2.3	23	2	0.7	23	NoA
520	5	Silver	0.074	23	2	2.7	2.61	NoAB
520	5	Sodium	237	2	2	340		NoBE
520	5	Technetium-99	1.14	1	1	2.8	101	NoAB
520	5	Thallium	0.34	2	2	0.34	0.368	NoA
520	5	Thorium-228	0.51	1	1	1.6		NoB
520	5	Thorium-230	0.72	1	1	1.4	4.1	NoAB
520	5	Thorium-232	0.42	1	1	1.5		NoB
520	5	Total PAH	0.38723	1	1		0.0197	Yes
520	5	Uranium	11.29	23	9	4.6	13.8	NoA
520	5	Uranium-234	1.08	1	1	1.2	5.47	NoAB
520	5	Uranium-235	0.043	1	1	0.06	0.122	NoAB
520	5	Uranium-238	1.45	1	1	1.2	0.517	Yes
520	5	Vanadium	37.3	2	2	37	0.0365	Yes
520	5	Zinc	73.64	23	22	60	1380	NoA
531	1	Alpha activity	24.8	2	2			NoC

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
531	1	Aluminum	8720	2	2	12000	4410	NoB
531	1	Americium-241	0.017	2	2		1.5	NoA
531	1	Antimony	1	2	2	0.21	0.552	Yes
531	1	Arsenic	46.82	14	9	7.9	0.238	Yes
531	1	Barium	91.1	2	2	170	140	NoAB
531	1	Beryllium	0.48	2	2	0.69	0.00567	NoB
531	1	Beta activity	21.2	2	2			NoC
531	1	Bis(2-ethylhexyl)phthalate	0.41	2	2			NoC
531	1	Cadmium	3.1	2	2	0.21	0.811	Yes
531	1	Calcium	104000	2	2	6100		NoE
531	1	Cesium-137	0.226	2	2	0.28	0.0267	NoB
531	1	Chromium	53.33	14	5	43	15.6	Yes
531	1	Cobalt	6.6	2	2	13	1.37	NoB
531	1	Copper	18.32	14	3	25	184	NoAB
531	1	Fluoranthene	0.068	1	1		109	NoA
531	1	Iron	56840.49	14	14	28000	3220	Yes
531	1	Lead	531.14	14	14	23	400	Yes
531	1	Magnesium	7480	2	2	2100		NoE
531	1	Manganese	865.47	14	14	820	419	Yes
531	1	Mercury	0.0365	14	2	0.13	0.213	NoAB
531	1	Molybdenum	1.1	14	2		23	NoA
531	1	Neptunium-237	0.033	2	2		0.0839	NoA
531	1	Nickel	162.23	14	6	22	10.4	Yes
531	1	Plutonium-238	0.02	2	2		3.21	NoA
531	1	Plutonium-239/240	0.013	2	2		3.15	NoA
531	1	Pyrene	0.06	1	1		81.2	NoA
531	1	Selenium	1.1	14	2	0.7	23	NoA
531	1	Silver	0.1	14	2	2.7	2.61	NoAB
531	1	Sodium	134	2	2	340		NoBE
531	1	Technetium-99	1.17	2	2	2.8	101	NoAB
531	1	Thallium	0.18	1	1	0.34	0.368	NoAB
531	1	Thorium-228	0.85	2	2	1.6		NoB
531	1	Thorium-230	0.92	2	2	1.4	4.1	NoAB
531	1	Thorium-232	0.77	2	2	1.5		NoB
531	1	Total PAH	0.053374	2	2		0.0197	Yes
531	1	Uranium	24.07	14	5	4.6	13.8	Yes
531	1	Uranium-234	3.12	2	2	1.2	5.47	NoA
531	1	Uranium-235	0.138	2	2	0.06	0.122	Yes
531	1	Uranium-238	3.48	2	2	1.2	0.517	Yes
531	1	Vanadium	25.2	2	2	37	0.0365	NoB
531	1	Zinc	2451.69	14	14	60	1380	Yes
541	1	Acenaphthene	2	64	4		117	NoA
541	1	Alpha activity	897	1	1			NoC
541	1	Aluminum	19200	67	67	12000	4410	Yes
541	1	Americium-241	27.3	65	65		1.5	Yes
541	1	Anthracene	2.6	64	5		747	NoA
541	1	Arsenic	23.3	67	58	7.9	0.238	Yes
541	1	Barium	230	67	67	170	140	Yes
541	1	Benzo(ghi)perylene	1.8	64	8			NoC
541	1	Beryllium	1.46	67	28	0.69	0.00567	Yes
541	1	Beta activity	1080	1	1			NoC
541	1	Cadmium	2.75	67	32	0.21	0.811	Yes
541	1	Calcium	59200	67	67	6100		NoE
541	1	Carbazole	1	12	2		8.72	NoA
541	1	Cesium-137	2.33	67	67	0.28	0.0267	Yes
541	1	Chromium	3352.5	438	287	43	15.6	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
541	1	Cobalt	12.3	67	67	13	1.37	NoB
541	1	Cobalt-60	0.0183	16	16		0.00547	Yes
541	1	Copper	161	67	66	25	184	NoA
541	1	Dibenzofuran	0.6	11	1			NoC
541	1	Di-n-butyl phthalate	1.4	14	8			NoC
541	1	Fluoranthene	24	62	16		109	NoA
541	1	Fluorene	1.5	64	3		91.5	NoA
541	1	Iron	29600	67	67	28000	3220	Yes
541	1	Lead	94.3	438	402	23	400	NoA
541	1	Magnesium	4420	67	67	2100		NoE
541	1	Manganese	821	67	67	820	419	Yes
541	1	Mercury	0.67	67	48	0.13	0.213	Yes
541	1	Methylene chloride	0.012	14	5			NoC
541	1	Molybdenum	5.62	22	1		23	NoA
541	1	Naphthalene	1.8	64	2		1.15	Yes
541	1	Neptunium-237	0.181	62	62		0.0839	Yes
541	1	Nickel	32.8	67	67	22	10.4	Yes
541	1	PCB, Total	94	440	95		0.0648	Yes
541	1	Phenanthrene	19	64	14			NoC
541	1	Plutonium-238	0.017	58	58		3.21	NoA
541	1	Plutonium-239/240	0.156	67	67		3.15	NoA
541	1	Pyrene	14	64	14		81.2	NoA
541	1	Selenium	2	67	11	0.7	23	NoA
541	1	Silver	0.33	41	1	2.7	2.61	NoAB
541	1	Sodium	45	39	3	340		NoBE
541	1	Technetium-99	36.5	65	65	2.8	101	NoA
541	1	Thorium-228	1.07	67	67	1.6		NoB
541	1	Thorium-230	1.38	67	67	1.4	4.1	NoAB
541	1	Thorium-232	1.09	67	67	1.5		NoB
541	1	Total PAH	7.6297	435	60		0.0197	Yes
541	1	Uranium	20200	436	411	4.6	13.8	Yes
541	1	Uranium-234	713	67	67	1.2	5.47	Yes
541	1	Uranium-235	65.1	108	108	0.06	0.122	Yes
541	1	Uranium-238	4540	67	67	1.2	0.517	Yes
541	1	Vanadium	51.7	67	67	37	0.0365	Yes
541	1	Zinc	1090	67	66	60	1380	NoA
561	1	2-Methylnaphthalene	0.062	32	1			NoC
561	1	Acenaphthene	0.61	32	1		117	NoA
561	1	Acetone	0.0078	7	1			NoC
561	1	Aluminum	17600	77	77	12000	4410	Yes
561	1	Americium-241	0.0299	75	75		1.5	NoA
561	1	Anthracene	0.91	32	1		747	NoA
561	1	Antimony	3.5	77	76	0.21	0.552	Yes
561	1	Arsenic	33.1	77	76	7.9	0.238	Yes
561	1	Barium	438	77	77	170	140	Yes
561	1	Benzo(ghi)perylene	1.2	75	2			NoC
561	1	Benzoic acid	0.47	32	1			NoC
561	1	Beryllium	1.5	77	76	0.69	0.00567	Yes
561	1	Bis(2-ethylhexyl)phthalate	5.1	75	6			NoC
561	1	Boron	2.9	1	1		918	NoA
561	1	Butyl benzyl phthalate	0.18	32	1			NoC
561	1	Cadmium	0.35	77	76	0.21	0.811	NoA
561	1	Calcium	1640	77	77	6100		NoBE
561	1	Cesium-137	0.391	75	75	0.28	0.0267	Yes
561	1	Chromium	432	339	77	43	15.6	Yes
561	1	Cobalt	30.9	77	77	13	1.37	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
561	1	Cobalt-60	0.297	76	76		0.00547	Yes
561	1	Copper	30.2	77	77	25	184	NoA
561	1	Dibenzofuran	0.32	32	1			NoC
561	1	Di-n-butyl phthalate	0.068	32	2			NoC
561	1	Fluoranthene	5.3	75	11		109	NoA
561	1	Fluorene	0.52	32	1		91.5	NoA
561	1	Iron	48500	77	77	28000	3220	Yes
561	1	Lead	225.47	339	244	23	400	NoA
561	1	Magnesium	2190	77	77	2100		NoE
561	1	Manganese	5230	77	77	820	419	Yes
561	1	Mercury	0.139	77	61	0.13	0.213	NoA
561	1	Molybdenum	2.4	76	75		23	NoA
561	1	Naphthalene	0.1	32	1		1.15	NoA
561	1	Neptunium-237	0.139	77	77		0.0839	Yes
561	1	Nickel	22.8	77	77	22	10.4	Yes
561	1	PCB, Total	2.2	339	19		0.0648	Yes
561	1	Phenanthrene	4.9	75	4			NoC
561	1	Plutonium-238	0.6296	71	71		3.21	NoA
561	1	Plutonium-239/240	0.0604	77	77		3.15	NoA
561	1	Pyrene	4.7	75	8		81.2	NoA
561	1	Selenium	0.7	77	57	0.7	23	NoA
561	1	Silver	0.089	76	73	2.7	2.61	NoAB
561	1	Sodium	136	77	75	340		NoBE
561	1	Technetium-99	2.12	76	76	2.8	101	NoAB
561	1	Thallium	0.52	77	73	0.34	0.368	Yes
561	1	Thorium-228	1.12	75	75	1.6		NoB
561	1	Thorium-230	1.14	76	76	1.4	4.1	NoAB
561	1	Thorium-232	1.09	75	75	1.5		NoB
561	1	Toluene	0.024	7	4			NoC
561	1	Total PAH	2.6261	75	4		0.0197	Yes
561	1	Uranium	1370	339	83	4.6	13.8	Yes
561	1	Uranium-234	37.78	78	78	1.2	5.47	Yes
561	1	Uranium-235	6.788	124	124	0.06	0.122	Yes
561	1	Uranium-238	412.7	78	78	1.2	0.517	Yes
561	1	Vanadium	86.9	77	77	37	0.0365	Yes
561	1	Zinc	354	77	77	60	1380	NoA
561	2	Acenaphthene	2.7	51	2		117	NoA
561	2	Alpha activity	17.8	1	1			NoC
561	2	Aluminum	12500	85	85	12000	4410	Yes
561	2	Americium-241	0.186	77	77		1.5	NoA
561	2	Anthracene	4.9	51	2		747	NoA
561	2	Antimony	22	85	80	0.21	0.552	Yes
561	2	Arsenic	39.6	85	82	7.9	0.238	Yes
561	2	Barium	137	85	85	170	140	NoAB
561	2	Benzo(ghi)perylene	4.9	75	7			NoC
561	2	Benzoic acid	0.73	51	2			NoC
561	2	Beryllium	1	85	81	0.69	0.00567	Yes
561	2	Beta activity	27.1	1	1			NoC
561	2	Bis(2-ethylhexyl)phthalate	0.073	73	3			NoC
561	2	Boron	7.1	8	4		918	NoA
561	2	Butyl benzyl phthalate	0.059	49	1			NoC
561	2	Cadmium	1.2	85	77	0.21	0.811	Yes
561	2	Calcium	2310	85	85	6100		NoBE
561	2	Carbazole	1.4	2	1		8.72	NoA
561	2	Cesium-137	1.01	82	82	0.28	0.0267	Yes
561	2	Chromium	1370	348	88	43	15.6	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
561	2	Cobalt	31	85	85	13	1.37	Yes
561	2	Cobalt-60	0.0468	77	77		0.00547	Yes
561	2	Copper	62.5	85	85	25	184	NoA
561	2	Dibenzofuran	1.1	51	2			NoC
561	2	Diethyl phthalate	0.072	51	1			NoC
561	2	Di-n-butyl phthalate	0.044	51	1			NoC
561	2	Ethylbenzene	0.0009	5	2		1.58	NoA
561	2	Fluoranthene	22	77	12		109	NoA
561	2	Fluorene	2.2	51	2		91.5	NoA
561	2	Iron	26000	85	85	28000	3220	NoB
561	2	Lead	53.5	348	176	23	400	NoA
561	2	m,p-Xylene	0.0016	5	2		7.96	NoA
561	2	Magnesium	1770	85	85	2100		NoBE
561	2	Manganese	2230	85	85	820	419	Yes
561	2	Mercury	0.092	85	81	0.13	0.213	NoAB
561	2	Methylene chloride	0.0035	5	1			NoC
561	2	Molybdenum	1.7	81	74		23	NoA
561	2	Naphthalene	0.55	51	1		1.15	NoA
561	2	Neptunium-237	0.19	82	82		0.0839	Yes
561	2	Nickel	15.9	85	85	22	10.4	NoB
561	2	PCB, Total	79	349	47		0.0648	Yes
561	2	Phenanthrene	2.4	74	9			NoC
561	2	Plutonium-238	0.5558	80	80		3.21	NoA
561	2	Plutonium-239/240	0.158	85	85		3.15	NoA
561	2	Pyrene	2.4	75	11		81.2	NoA
561	2	Selenium	1.1	85	52	0.7	23	NoA
561	2	Silver	0.14	81	73	2.7	2.61	NoAB
561	2	Sodium	242	85	72	340		NoBE
561	2	Technetium-99	8.38	82	82	2.8	101	NoA
561	2	Thallium	1.2	85	76	0.34	0.368	Yes
561	2	Thorium-228	0.87	74	74	1.6		NoB
561	2	Thorium-230	2.23	78	78	1.4	4.1	NoA
561	2	Thorium-232	0.96	74	74	1.5		NoB
561	2	Toluene	0.066	5	2			NoC
561	2	Total PAH	0.73718	76	9		0.0197	Yes
561	2	Uranium	6410	349	188	4.6	13.8	Yes
561	2	Uranium-234	136	90	90	1.2	5.47	Yes
561	2	Uranium-235	19.6	153	153	0.06	0.122	Yes
561	2	Uranium-238	1340	90	90	1.2	0.517	Yes
561	2	Vanadium	71.6	85	85	37	0.0365	Yes
561	2	Zinc	1130	85	85	60	1380	NoA
562	1	Aluminum	8850	15	15	12000	4410	NoB
562	1	Americium-241	0.00101	14	14		1.5	NoA
562	1	Arsenic	11.8	15	15	7.9	0.238	Yes
562	1	Barium	78.7	15	15	170	140	NoAB
562	1	Beryllium	0.681	12	1	0.69	0.00567	NoB
562	1	Cadmium	0.517	12	1	0.21	0.811	NoA
562	1	Calcium	1110	15	15	6100		NoBE
562	1	Cesium-137	0.452	15	15	0.28	0.0267	Yes
562	1	Chromium	314.97	47	33	43	15.6	Yes
562	1	Cobalt	9.29	15	15	13	1.37	NoB
562	1	Copper	11.3	15	15	25	184	NoAB
562	1	Iron	19800	15	15	28000	3220	NoB
562	1	Lead	35.68	47	44	23	400	NoA
562	1	Magnesium	763	15	15	2100		NoBE
562	1	Manganese	468	15	15	820	419	NoB
562	1	Mercury	0.026	15	6	0.13	0.213	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
562	1	Neptunium-237	-0.00385	14	14		0.0839	NoA
562	1	Nickel	8.77	15	8	22	10.4	NoAB
562	1	PCB, Total	2.01	38	7		0.0648	Yes
562	1	Plutonium-238	-0.00184	12	12		3.21	NoA
562	1	Plutonium-239/240	0.00567	14	14		3.15	NoA
562	1	Technetium-99	0.511	15	15	2.8	101	NoAB
562	1	Thorium-228	0.392	15	15	1.6		NoB
562	1	Thorium-230	0.33	15	15	1.4	4.1	NoAB
562	1	Thorium-232	0.447	15	15	1.5		NoB
562	1	Total PAH	0.00009	38	1		0.0197	NoA
562	1	Uranium	226.72	47	38	4.6	13.8	Yes
562	1	Uranium-234	4.68	15	15	1.2	5.47	NoA
562	1	Uranium-235	0.591	15	15	0.06	0.122	Yes
562	1	Uranium-238	44.2	15	15	1.2	0.517	Yes
562	1	Vanadium	28	15	15	37	0.0365	NoB
562	1	Zinc	56.1	15	12	60	1380	NoAB
562	2	Aluminum	6270	4	4	12000	4410	NoB
562	2	Americium-241	0.0028	6	6		1.5	NoA
562	2	Arsenic	2.72	4	4	7.9	0.238	NoB
562	2	Barium	75.8	4	4	170	140	NoAB
562	2	Calcium	325	4	4	6100		NoBE
562	2	Cesium-137	0.358	6	6	0.28	0.0267	Yes
562	2	Chromium	35.39	4	4	43	15.6	NoB
562	2	Cobalt	4.81	4	4	13	1.37	NoB
562	2	Copper	7.56	4	4	25	184	NoAB
562	2	Iron	7250	4	4	28000	3220	NoB
562	2	Lead	25.32	4	4	23	400	NoA
562	2	Magnesium	730	4	4	2100		NoBE
562	2	Manganese	523	4	4	820	419	NoB
562	2	Mercury	0.021	4	4	0.13	0.213	NoAB
562	2	Neptunium-237	0.0063	5	5		0.0839	NoA
562	2	Nickel	6.02	4	2	22	10.4	NoAB
562	2	PCB, Total	1.58	4	2		0.0648	Yes
562	2	Plutonium-238	-0.00159	6	6		3.21	NoA
562	2	Plutonium-239/240	0.0082	5	5		3.15	NoA
562	2	Technetium-99	4.36	6	6	2.8	101	NoA
562	2	Thorium-228	1.06	6	6	1.6		NoB
562	2	Thorium-230	1.01	6	6	1.4	4.1	NoAB
562	2	Thorium-232	1.07	6	6	1.5		NoB
562	2	Uranium	11.16	4	2	4.6	13.8	NoA
562	2	Uranium-234	53.4	6	6	1.2	5.47	Yes
562	2	Uranium-235	8.96	6	6	0.06	0.122	Yes
562	2	Uranium-238	581	6	6	1.2	0.517	Yes
562	2	Vanadium	11.6	4	4	37	0.0365	NoB
562	2	Zinc	22.5	4	4	60	1380	NoAB
562	3	Aluminum	5790	1	1	12000	4410	NoB
562	3	Americium-241	-0.00559	1	1		1.5	NoA
562	3	Arsenic	3.87	1	1	7.9	0.238	NoB
562	3	Barium	55.8	1	1	170	140	NoAB
562	3	Calcium	968	1	1	6100		NoBE
562	3	Cesium-137	0.0405	1	1	0.28	0.0267	NoB
562	3	Chromium	38.16	1	1	43	15.6	NoB
562	3	Cobalt	4.9	1	1	13	1.37	NoB
562	3	Copper	7.84	1	1	25	184	NoAB
562	3	Fluoranthene	1.1	1	1		109	NoA
562	3	Iron	9230	1	1	28000	3220	NoB
562	3	Lead	12.73	1	1	23	400	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
562	3	Magnesium	614	1	1	2100		NoBE
562	3	Manganese	221	1	1	820	419	NoAB
562	3	Neptunium-237	-0.0203	1	1		0.0839	NoA
562	3	Nickel	4.99	1	1	22	10.4	NoAB
562	3	PCB, Total	0.24	1	1		0.0648	Yes
562	3	Phenanthrene	0.57	1	1			NoC
562	3	Plutonium-238	-0.00614	1	1		3.21	NoA
562	3	Plutonium-239/240	-0.00377	1	1		3.15	NoA
562	3	Pyrene	1.1	1	1		81.2	NoA
562	3	Technetium-99	-0.54	1	1	2.8	101	NoAB
562	3	Thorium-228	0.377	1	1	1.6		NoB
562	3	Thorium-230	0.242	1	1	1.4	4.1	NoAB
562	3	Thorium-232	0.337	1	1	1.5		NoB
562	3	Total PAH	0.22	1	1		0.0197	Yes
562	3	Uranium	58.9	1	1	4.6	13.8	Yes
562	3	Uranium-234	1.13	1	1	1.2	5.47	NoAB
562	3	Uranium-235	0.163	1	1	0.06	0.122	Yes
562	3	Uranium-238	10.9	1	1	1.2	0.517	Yes
562	3	Vanadium	13.3	1	1	37	0.0365	NoB
562	3	Zinc	30.8	1	1	60	1380	NoAB
562	4	Aluminum	7320	3	3	12000	4410	NoB
562	4	Americium-241	0.000993	3	3		1.5	NoA
562	4	Arsenic	2.99	3	3	7.9	0.238	NoB
562	4	Barium	72	3	3	170	140	NoAB
562	4	Calcium	351	3	3	6100		NoBE
562	4	Cesium-137	0.491	3	3	0.28	0.0267	Yes
562	4	Chromium	46.66	7	3	43	15.6	Yes
562	4	Cobalt	4.24	3	3	13	1.37	NoB
562	4	Copper	6.72	3	3	25	184	NoAB
562	4	Iron	7180	3	3	28000	3220	NoB
562	4	Lead	19.04	7	7	23	400	NoAB
562	4	Magnesium	719	3	3	2100		NoBE
562	4	Manganese	549	3	3	820	419	NoB
562	4	Mercury	0.031	3	3	0.13	0.213	NoAB
562	4	Neptunium-237	-0.0261	1	1		0.0839	NoA
562	4	Nickel	6.46	3	3	22	10.4	NoAB
562	4	Plutonium-238	-0.00535	2	2		3.21	NoA
562	4	Plutonium-239/240	0.0095	3	3		3.15	NoA
562	4	Technetium-99	0.669	3	3	2.8	101	NoAB
562	4	Thorium-228	0.339	3	3	1.6		NoB
562	4	Thorium-230	0.403	3	3	1.4	4.1	NoAB
562	4	Thorium-232	0.385	3	3	1.5		NoB
562	4	Uranium	20.99	7	4	4.6	13.8	Yes
562	4	Uranium-234	0.334	3	3	1.2	5.47	NoAB
562	4	Uranium-235	0.0534	3	3	0.06	0.122	NoAB
562	4	Uranium-238	2.42	3	3	1.2	0.517	Yes
562	4	Vanadium	13.7	3	3	37	0.0365	NoB
562	4	Zinc	25.9	3	3	60	1380	NoAB
562	5	Alpha activity	131	1	1			NoC
562	5	Aluminum	9340	4	4	12000	4410	NoB
562	5	Americium-241	0.016	5	5		1.5	NoA
562	5	Arsenic	5.86	4	4	7.9	0.238	NoB
562	5	Barium	136	4	4	170	140	NoAB
562	5	Beta activity	154	1	1			NoC
562	5	Cadmium	0.623	4	3	0.21	0.811	NoA
562	5	Calcium	1320	4	4	6100		NoBE
562	5	Cesium-137	0.38	5	5	0.28	0.0267	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
562	5	Chromium	153.11	21	17	43	15.6	Yes
562	5	Cobalt	6.5	4	4	13	1.37	NoB
562	5	Copper	14.3	4	4	25	184	NoAB
562	5	Fluoranthene	1.5	4	2		109	NoA
562	5	Iron	12000	4	4	28000	3220	NoB
562	5	Lead	20.21	21	16	23	400	NoAB
562	5	Magnesium	872	4	4	2100		NoBE
562	5	Manganese	383	4	4	820	419	NoAB
562	5	Mercury	0.024	4	3	0.13	0.213	NoAB
562	5	Neptunium-237	0.004	5	5		0.0839	NoA
562	5	Nickel	7.09	4	4	22	10.4	NoAB
562	5	PCB, Total	0.95	21	4		0.0648	Yes
562	5	Phenanthrene	1.1	2	1			NoC
562	5	Plutonium-238	0.014	4	4		3.21	NoA
562	5	Plutonium-239/240	0.012	5	5		3.15	NoA
562	5	Pyrene	0.98	2	1		81.2	NoA
562	5	Technetium-99	0.88	5	5	2.8	101	NoAB
562	5	Thorium-228	0.97	5	5	1.6		NoB
562	5	Thorium-230	0.95	5	5	1.4	4.1	NoAB
562	5	Thorium-232	0.97	5	5	1.5		NoB
562	5	Total PAH	0.0705	8	1		0.0197	Yes
562	5	Uranium	208	22	17	4.6	13.8	Yes
562	5	Uranium-234	8.57	5	5	1.2	5.47	Yes
562	5	Uranium-235	0.95	8	8	0.06	0.122	Yes
562	5	Uranium-238	62.4	5	5	1.2	0.517	Yes
562	5	Vanadium	22.2	4	4	37	0.0365	NoB
562	5	Zinc	83.6	4	4	60	1380	NoA
563	1	Alpha activity	48	1	1			NoC
563	1	Aluminum	9500	6	6	12000	4410	NoB
563	1	Americium-241	0.003	7	7		1.5	NoA
563	1	Arsenic	7.4	6	6	7.9	0.238	NoB
563	1	Barium	95.6	6	6	170	140	NoAB
563	1	Beta activity	35.5	1	1			NoC
563	1	Cadmium	0.896	6	6	0.21	0.811	Yes
563	1	Calcium	2680	6	6	6100		NoBE
563	1	Cesium-137	0.288	7	7	0.28	0.0267	Yes
563	1	Chromium	333.92	10	8	43	15.6	Yes
563	1	Cobalt	8.91	6	6	13	1.37	NoB
563	1	Copper	19	6	6	25	184	NoAB
563	1	Iron	13500	6	6	28000	3220	NoB
563	1	Lead	24.81	10	10	23	400	NoA
563	1	Magnesium	1040	6	6	2100		NoBE
563	1	Manganese	580	6	6	820	419	NoB
563	1	Mercury	0.035	6	5	0.13	0.213	NoAB
563	1	Neptunium-237	0.12	7	7		0.0839	Yes
563	1	Nickel	8.85	6	6	22	10.4	NoAB
563	1	PCB, Total	3.54	10	6		0.0648	Yes
563	1	Plutonium-238	0.003	6	6		3.21	NoA
563	1	Plutonium-239/240	0.0307	7	7		3.15	NoA
563	1	Technetium-99	3.13	7	7	2.8	101	NoA
563	1	Thorium-228	0.98	7	7	1.6		NoB
563	1	Thorium-230	0.9	7	7	1.4	4.1	NoAB
563	1	Thorium-232	0.82	7	7	1.5		NoB
563	1	Uranium	15.09	11	8	4.6	13.8	Yes
563	1	Uranium-234	1.03	7	7	1.2	5.47	NoAB
563	1	Uranium-235	0.0787	10	10	0.06	0.122	NoA
563	1	Uranium-238	2.96	7	7	1.2	0.517	Yes

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
563	1	Vanadium	25.3	6	6	37	0.0365	NoB
563	1	Zinc	237	6	6	60	1380	NoA
563	2	Aluminum	8420	2	2	12000	4410	NoB
563	2	Americium-241	-0.000561	3	3		1.5	NoA
563	2	Arsenic	5.93	2	2	7.9	0.238	NoB
563	2	Barium	87	2	2	170	140	NoAB
563	2	Calcium	3780	2	2	6100		NoBE
563	2	Cesium-137	0.647	3	3	0.28	0.0267	Yes
563	2	Chromium	12	4	2	43	15.6	NoAB
563	2	Cobalt	8.2	2	2	13	1.37	NoB
563	2	Copper	10.6	2	2	25	184	NoAB
563	2	Iron	13000	2	2	28000	3220	NoB
563	2	Lead	16.08	4	4	23	400	NoAB
563	2	Magnesium	1280	2	2	2100		NoBE
563	2	Manganese	518	2	2	820	419	NoB
563	2	Mercury	0.019	1	1	0.13	0.213	NoAB
563	2	Neptunium-237	-0.00618	3	3		0.0839	NoA
563	2	Nickel	9.05	2	2	22	10.4	NoAB
563	2	Plutonium-238	-0.000821	3	3		3.21	NoA
563	2	Plutonium-239/240	0.0102	3	3		3.15	NoA
563	2	Technetium-99	2.94	3	3	2.8	101	NoA
563	2	Thorium-228	0.903	3	3	1.6		NoB
563	2	Thorium-230	1.06	3	3	1.4	4.1	NoAB
563	2	Thorium-232	0.785	3	3	1.5		NoB
563	2	Uranium	1.1	2	1	4.6	13.8	NoAB
563	2	Uranium-234	0.574	3	3	1.2	5.47	NoAB
563	2	Uranium-235	0.054	3	3	0.06	0.122	NoAB
563	2	Uranium-238	1.49	3	3	1.2	0.517	Yes
563	2	Vanadium	17.4	2	2	37	0.0365	NoB
563	2	Zinc	31.5	2	2	60	1380	NoAB
564	1	Alpha activity	71	1	1			NoC
564	1	Aluminum	12700	4	4	12000	4410	Yes
564	1	Americium-241	0.02	4	4		1.5	NoA
564	1	Arsenic	43	4	4	7.9	0.238	Yes
564	1	Barium	115	4	4	170	140	NoAB
564	1	Beryllium	2.12	4	4	0.69	0.00567	Yes
564	1	Beta activity	50.8	1	1			NoC
564	1	Cadmium	1.96	4	4	0.21	0.811	Yes
564	1	Calcium	1950	4	4	6100		NoBE
564	1	Cesium-137	0.62	4	4	0.28	0.0267	Yes
564	1	Chromium	83.24	11	9	43	15.6	Yes
564	1	Cobalt	6.6	4	4	13	1.37	NoB
564	1	Copper	46.3	4	4	25	184	NoA
564	1	Iron	36600	4	4	28000	3220	Yes
564	1	Lead	40.9	11	11	23	400	NoA
564	1	Magnesium	912	4	4	2100		NoBE
564	1	Manganese	487	4	4	820	419	NoB
564	1	Mercury	0.23	4	4	0.13	0.213	Yes
564	1	Molybdenum	7.84	3	3		23	NoA
564	1	Neptunium-237	0.021	4	4		0.0839	NoA
564	1	Nickel	22.4	4	4	22	10.4	Yes
564	1	PCB, Total	1.93	12	5		0.0648	Yes
564	1	Plutonium-238	0.015	3	3		3.21	NoA
564	1	Plutonium-239/240	0.068	4	4		3.15	NoA
564	1	Selenium	2.82	4	4	0.7	23	NoA
564	1	Silver	0.2	3	1	2.7	2.61	NoAB
564	1	Sodium	95.7	3	1	340		NoBE

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
564	1	Technetium-99	9.21	4	4	2.8	101	NoA
564	1	Thallium	2.36	3	2	0.34	0.368	Yes
564	1	Thorium-228	1.05	4	4	1.6		NoB
564	1	Thorium-230	5.01	4	4	1.4	4.1	Yes
564	1	Thorium-232	1.24	4	4	1.5		NoB
564	1	Uranium	58.3	11	10	4.6	13.8	Yes
564	1	Uranium-234	6.93	4	4	1.2	5.47	Yes
564	1	Uranium-235	0.387	7	7	0.06	0.122	Yes
564	1	Uranium-238	8.54	4	4	1.2	0.517	Yes
564	1	Vanadium	80.6	4	4	37	0.0365	Yes
564	1	Zinc	106	4	4	60	1380	NoA
565	1	Alpha activity	37.6	1	1			NoC
565	1	Americium-241	0.02	1	1		1.5	NoA
565	1	Beta activity	31	1	1			NoC
565	1	Cesium-137	0.4	1	1	0.28	0.0267	Yes
565	1	Neptunium-237	-0.0022	1	1		0.0839	NoA
565	1	Plutonium-238	0.017	1	1		3.21	NoA
565	1	Plutonium-239/240	0.014	1	1		3.15	NoA
565	1	Technetium-99	0.36	1	1	2.8	101	NoAB
565	1	Thorium-228	0.77	1	1	1.6		NoB
565	1	Thorium-230	0.88	1	1	1.4	4.1	NoAB
565	1	Thorium-232	0.74	1	1	1.5		NoB
565	1	Uranium	3.31	1	1	4.6	13.8	NoAB
565	1	Uranium-234	0.93	1	1	1.2	5.47	NoAB
565	1	Uranium-235	0.047	1	1	0.06	0.122	NoAB
565	1	Uranium-238	1.11	1	1	1.2	0.517	NoB
567	1	Aluminum	12900	5	5	12000	4410	Yes
567	1	Americium-241	-0.00121	5	5		1.5	NoA
567	1	Arsenic	5.69	5	4	7.9	0.238	NoB
567	1	Barium	120	5	5	170	140	NoAB
567	1	Beryllium	0.455	3	1	0.69	0.00567	NoB
567	1	Calcium	26200	5	5	6100		NoE
567	1	Cesium-137	0.0162	5	5	0.28	0.0267	NoAB
567	1	Chromium	16.2	5	5	43	15.6	NoB
567	1	Cobalt	7.43	5	5	13	1.37	NoB
567	1	Iron	18000	5	5	28000	3220	NoB
567	1	Lead	12.1	5	5	23	400	NoAB
567	1	Magnesium	1580	5	5	2100		NoBE
567	1	Manganese	1320	5	5	820	419	Yes
567	1	Mercury	0.022	5	5	0.13	0.213	NoAB
567	1	Neptunium-237	-0.00647	5	5		0.0839	NoA
567	1	Nickel	8.48	5	5	22	10.4	NoAB
567	1	Plutonium-238	-0.00115	5	5		3.21	NoA
567	1	Plutonium-239/240	0.000774	3	3		3.15	NoA
567	1	Technetium-99	0.57	5	5	2.8	101	NoAB
567	1	Thorium-228	0.423	5	5	1.6		NoB
567	1	Thorium-230	0.427	5	5	1.4	4.1	NoAB
567	1	Thorium-232	0.409	5	5	1.5		NoB
567	1	Uranium-234	0.134	5	5	1.2	5.47	NoAB
567	1	Uranium-238	0.195	5	5	1.2	0.517	NoAB
567	1	Vanadium	24.7	5	5	37	0.0365	NoB
567	1	Zinc	29.2	5	5	60	1380	NoAB
567	2	PCB, Total	0.046	1	1		0.0648	NoA
567	3	Aluminum	8990	2	2	12000	4410	NoB
567	3	Americium-241	-0.00339	2	2		1.5	NoA
567	3	Arsenic	7.6	2	2	7.9	0.238	NoB
567	3	Barium	103	2	2	170	140	NoAB

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Table D.5. Subsurface Soil COPCs (Continued)

SWMU	EU	Chemical	Maximum Concentration (mg/kg or pCi/g)	# of Analyses	# of Detects	Subsurface Background Concentration (mg/kg or pCi/g)	Child Resident NAL (mg/kg or pCi/g)	COPC?
567	3	Beryllium	0.493	2	2	0.69	0.00567	NoB
567	3	Calcium	1180	2	2	6100		NoBE
567	3	Cesium-137	0.214	2	2	0.28	0.0267	NoB
567	3	Chromium	52.1	2	2	43	15.6	Yes
567	3	Cobalt	6.61	2	2	13	1.37	NoB
567	3	Iron	14200	2	2	28000	3220	NoB
567	3	Lead	14.6	2	2	23	400	NoAB
567	3	Magnesium	1220	2	2	2100		NoBE
567	3	Manganese	392	2	2	820	419	NoAB
567	3	Mercury	0.025	2	2	0.13	0.213	NoAB
567	3	Neptunium-237	0.00271	2	2		0.0839	NoA
567	3	Nickel	9.26	2	2	22	10.4	NoAB
567	3	Plutonium-238	-0.00279	2	2		3.21	NoA
567	3	Plutonium-239/240	0.00611	2	2		3.15	NoA
567	3	Technetium-99	0.801	2	2	2.8	101	NoAB
567	3	Thorium-228	0.476	2	2	1.6		NoB
567	3	Thorium-230	0.381	2	2	1.4	4.1	NoAB
567	3	Thorium-232	0.441	2	2	1.5		NoB
567	3	Uranium	5.42	1	1	4.6	13.8	NoA
567	3	Uranium-234	0.505	2	2	1.2	5.47	NoAB
567	3	Uranium-238	1.72	2	2	1.2	0.517	Yes
567	3	Vanadium	22.7	2	2	37	0.0365	NoB
567	3	Zinc	40	2	2	60	1380	NoAB
567	4	Alpha activity	23.8	1	1			NoC
567	4	Aluminum	13400	4	4	12000	4410	Yes
567	4	Americium-241	0.007	5	5		1.5	NoA
567	4	Arsenic	13.6	4	4	7.9	0.238	Yes
567	4	Barium	103	4	4	170	140	NoAB
567	4	Beryllium	0.559	2	2	0.69	0.00567	NoB
567	4	Beta activity	28.8	1	1			NoC
567	4	Calcium	503	4	4	6100		NoBE
567	4	Cesium-137	0.165	5	5	0.28	0.0267	NoB
567	4	Chromium	17.7	4	4	43	15.6	NoB
567	4	Cobalt	11.3	4	4	13	1.37	NoB
567	4	Iron	18000	4	4	28000	3220	NoB
567	4	Lead	16.4	4	4	23	400	NoAB
567	4	Magnesium	1180	4	4	2100		NoBE
567	4	Manganese	739	4	4	820	419	NoB
567	4	Mercury	0.03	4	4	0.13	0.213	NoAB
567	4	Neptunium-237	-0.0031	5	5		0.0839	NoA
567	4	Nickel	7.77	4	4	22	10.4	NoAB
567	4	Plutonium-238	0.015	5	5		3.21	NoA
567	4	Plutonium-239/240	0.0056	5	5		3.15	NoA
567	4	Technetium-99	0.571	5	5	2.8	101	NoAB
567	4	Thorium-228	0.88	5	5	1.6		NoB
567	4	Thorium-230	1	5	5	1.4	4.1	NoAB
567	4	Thorium-232	0.95	5	5	1.5		NoB
567	4	Uranium	4.71	3	1	4.6	13.8	NoA
567	4	Uranium-234	0.81	5	5	1.2	5.47	NoAB
567	4	Uranium-235	0.067	1	1	0.06	0.122	NoA
567	4	Uranium-238	1.57	5	5	1.2	0.517	Yes
567	4	Vanadium	30.5	4	4	37	0.0365	NoB
567	4	Zinc	30.7	4	4	60	1380	NoAB

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concernt
NAL = no action limit
A = <Child Resident NAL C = no NAL available
B = <Background E = essential nutrient

Table D.6. Exposure Factors Used for Intake Calculations in BHHRA

Pathway Variable	Units	Current On-site Industrial		Future On-site Industrial		Offsite Outdoor Worker[c]		Adult Resident		Child Resident		Teen Recreational	
		Value	Source	Value	Source	Value	Source	Value	Source	Value	Source	Value	Source
General Parameters Used in All Intake Models													
Exposure frequency (EF)	days/year	14	b	250	a	185	a	350	a	350	a	140	a
Exposure duration (ED)	years	25	a	25	a	25	a	24	a	6	a	10	a
Body weight (BW)	kilograms	70	a	70	a	70	a	70	a	15	a	45	a
Averaging time - noncancer (AT-N)	days	9125	a	9125	a	9125	a	8760	a	2190	a	3650	a
Averaging time - cancer (AT-C)	days	25550	a	25550	a	25550	a	25550	a	25550	a	25550	a
Inhalation of VOCs and Resuspended Dust from Soil													
Outdoor inhalation rate (IN)	m^3/hour	2.5	a	2.5	a	2.5	a	0.83	a	0.83	a	0.83	a
Exposure time (ET)	hours/day	8	a	8	a	8	a	24	a	24	a	6	a
Volatilization Factor (VF)	m^3/kg	CSV		CSV		CSV		CSV		CSV		CSV	
Particulate emission factor (PEF)	m^3/kg	6.20E+08	a	6.20E+08	a	6.20E+08	a	9.30E+08	a	9.30E+08	a	9.30E+08	a
Incidental Ingestion of Soil													
Incidental ingestion rate (IR-S)	mg/day	50	a	50	a	480	a	100	a	200	a	100	a
Dermal Contact with Soil													
Body surface area exposed (SA)	m^2/day	0.47	a	0.47	a	0.47	a	0.57	a	0.28	a, e	0.75	a
Soil-to-skin adherence factor (SSAF)	mg/cm^2 -day	1	a	1	a	0.3	a	1	a	1	a, e	0.2	a
Dermal absorption factor (DABS)	unitless	CSV		CSV		CSV		CSV		CSV		CSV	
External Exposure													
Exposure frequency (EF)	day/day	14/365	b	250/365	a	185/365	a	350/365	a	350/365	a		
Gamma shielding factor	unitless	0.2	a	0.2	a	0.2	a	0.2	a	0.2	a		
Gamma exposure time factor	hr/hr	8/24	a	8/24	a	8/24	a	24/24	a	24/24	a		
Drinking Water Ingestion													
Drinking water ingestion rate (IR-GW	L/day	NA		NA		NA		2	a	1.5	a	NA	
Dermal Contact with RGA Groundwater													
Body surface area exposed (SA)	m^2/day	NA		NA		NA		1.815	a	0.65	a	NA	
Fraction absorbed water	unitless	NA		NA		NA		CSV		CSV		NA	
Permeability coefficient (Kp)	cm/hour	NA		NA		NA		CSV		CSV		NA	
Lag time (t)	hour/event	NA		NA		NA		CSV		CSV		NA	
Time to reach steady-state (t*)	hours	NA		NA		NA		CSV		CSV		NA	
Ratio of permeability of stratum corneum to epidermis (B)	unitless	NA		NA		NA		CSV		CSV		NA	
Event time (t_{event})	hour/event	NA		NA		NA		0.2	a	0.2	a	NA	
Event frequency (EV)	events/day	NA		NA		NA		1	a	1	a	NA	

Table D.6. Exposure Factors Used for Intake Calculations in BHHRA (Continued)

Pathway Variable	Units	Current On-site Industrial		Future On-site Industrial		Offsite Outdoor Worker		Adult Resident		Child Resident		Teen Recreational	
		Value	Source	Value	Source	Value	Source	Value	Source	Value	Source	Value	Source
Inhalation RGA Groundwater (showering)													
Indoor inhalation rate	m^3/hour	NA		NA		NA		0.833	a	0.833	a	NA	
Exposure frequency (EF)	day/year	NA		NA		NA		350	a	350	a	NA	
Exposure time (ET)	hours/day	NA		NA		NA		0.2	a	0.2	a	NA	
Time of shower (t1)	hour	NA		NA		NA		0.1	a	0.1	a	NA	
Time after shower (t2)	hour	NA		NA		NA		0.1	a	0.1	a	NA	
Fraction volatilized (f)	unitless	NA		NA		NA		0.75	a	0.75	a	NA	
Water flow rate (Fw)	L/h	NA		NA		NA		890	a	890	a	NA	
Bathroom volume (Va)	m^3	NA		NA		NA		11	a	11	a	NA	
Inhalation RGA Groundwater (household use)													
Indoor inhalation rate	m^3/hour	NA		NA		NA		0.833	a	0.833	a	NA	
Exposure frequency (EF)	day/year	NA		NA		NA		350	a	350	a	NA	
Exposure time (ET)	hours/day	NA		NA		NA		24	a	24	a	NA	
Exchange rate (ER)	changes/day	NA		NA		NA		10	a	10	a	NA	
Mixing coefficient (MC)	unitless	NA		NA		NA		0.5	a	0.5	a	NA	
Fraction volatilized (f)	unitless	NA		NA		NA		0.5	a	0.5	a	NA	
Water flow rate (WHF)	L/day	NA		NA		NA		890	a	890	a	NA	
House volume (HV)	m^3	NA		NA		NA		450	a	450	a	NA	

Notes:

[a] DOE 2011, *Methods for Conducting Risk Assessment and Risk Evaluation at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, Volume 1. Human Health,* DOE/LX/07-0107&D2/R1/V1, February.

[b] Best professional judgement; similar to value used for DOE 2008c, *Surface Water Operable Unit (On-Site) Site Investigation and Baseline Risk Assessment at the Paducah Gaseous Diffusion Plant,* DOE/LX/07-0001&D2/R1, U.S. Department of Energy, Paducah, KY, February.

[c] Excavation worker exposure durations are a ratio of the offsite outdoor worker.

Additional information is available in Sections D.3.5.1 and D.5 and the text box to the side.

NA = Not available or not applicable

Area	Acres	0.5
	m2	2023.5
	ft2	21780
Depth	feet	15
	m	4.572
Volume	m3	9251.442
Excavation Rate	m3/hr	20
	m3/day	160
Excavation time	days	57.82151
	Weeks	11.5643
	Months	2.891076
	Yrs	0.231286
	Max Workdays/yr	250
Default outdoor worker	days/yr	185
	yrs	25
	Total days	4625
No. of whole years		1
	days/yr	57.82151
Multiplier for ELCR		**0.0125**
Multiplier for HI		**0.313**

Table D.7. Noncancerous CDIs for the Current Industrial Worker

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
1	1	Surface	Beryllium	mg/kg	3.89E+00	1.07E-07	7.02E-08	6.88E-11
1	1	Surface	Cadmium	mg/kg	1.10E+00	3.01E-08	2.83E-09	1.94E-11
1	1	Surface	Cesium-137	pCi/g	5.91E-01	1.62E-08		1.04E-11
1	1	Surface	Chromium	mg/kg	1.28E+01	3.51E-07	1.65E-06	2.27E-10
1	1	Surface	Neptunium-237	pCi/g	4.02E-01	1.10E-08		7.11E-12
1	1	Surface	PCB, Total	mg/kg	1.76E-01	4.82E-09	6.35E-08	5.24E-09
1	1	Surface	Plutonium-239/240	pCi/g	6.14E+00	1.68E-07		1.09E-10
1	1	Surface	Thorium-230	pCi/g	4.40E+01	1.21E-06		7.78E-10
1	1	Surface	Uranium-235	pCi/g	1.06E-01	2.90E-09		1.87E-12
1	1	Surface	Uranium-238	pCi/g	1.97E+00	5.41E-08		3.49E-11
1	2	Surface	Beryllium	mg/kg	8.23E+00	2.25E-07	1.48E-07	1.45E-10
1	2	Surface	Cadmium	mg/kg	6.46E+00	1.77E-07	1.66E-08	1.14E-10
1	2	Surface	Chromium	mg/kg	2.01E+02	5.51E-06	2.59E-05	3.56E-09
1	2	Surface	Copper	mg/kg	1.81E+02	4.96E-06	2.33E-05	3.20E-09
1	2	Surface	Mercury	mg/kg	5.94E+00	1.63E-07	7.65E-07	3.13E-06
1	2	Surface	Nickel	mg/kg	5.75E+01	1.57E-06	5.92E-06	1.02E-09
1	2	Surface	PCB, Total	mg/kg	3.22E+01	8.83E-07	1.16E-05	9.60E-07
1	2	Surface	Silver	mg/kg	3.31E+01	9.08E-07	3.41E-06	5.86E-10
1	2	Surface	Thallium	mg/kg	3.70E-01	1.01E-08	4.76E-08	6.54E-12
1	2	Surface	Vanadium	mg/kg	3.49E+01	9.55E-07	2.33E-06	6.16E-10
1	3	Surface	Chromium	mg/kg	1.45E+01	3.96E-07	1.86E-06	2.56E-10
1	3	Surface	PCB, Total	mg/kg	2.17E-01	5.95E-09	7.82E-08	6.47E-09
1	3	Surface	Uranium-238	pCi/g	1.73E+00	4.74E-08		3.06E-11
1	4	Surface	Beryllium	mg/kg	7.25E-01	1.99E-08	1.31E-08	1.28E-11
1	4	Surface	Chromium	mg/kg	9.30E+01	2.55E-06	1.20E-05	1.64E-09
1	4	Surface	Cobalt-60	pCi/g	2.20E-02	6.03E-10		3.89E-13
1	4	Surface	Nickel	mg/kg	4.69E+01	1.28E-06	4.83E-06	8.28E-10
1	4	Surface	PCB, Total	mg/kg	1.30E-01	3.56E-09	4.69E-08	3.87E-09
1	4	Surface	Thorium-230	pCi/g	5.03E+00	1.38E-07		8.89E-11
1	5	Surface	Beryllium	mg/kg	8.30E+00	2.27E-07	1.50E-07	1.47E-10
1	5	Surface	Cadmium	mg/kg	1.20E+00	3.29E-08	3.09E-09	2.12E-11
1	5	Surface	Nickel	mg/kg	4.07E+01	1.12E-06	4.19E-06	7.19E-10
1	5	Surface	PCB, Total	mg/kg	2.70E-01	7.40E-09	9.73E-08	8.05E-09
1	5	Surface	Total PAH	mg/kg	9.83E-02	2.69E-09	3.29E-08	1.28E-10
12	1	Surface	Aluminum	mg/kg	8.19E+03	2.24E-04	1.06E-03	1.45E-07
12	1	Surface	Antimony	mg/kg	5.04E-01	1.38E-08	6.49E-08	8.91E-12
12	1	Surface	Arsenic	mg/kg	1.34E+01	3.67E-07	1.03E-06	2.37E-10
12	1	Surface	Barium	mg/kg	1.04E+02	2.84E-06	1.34E-05	1.83E-09
12	1	Surface	Beryllium	mg/kg	6.72E+00	1.84E-07	1.21E-07	1.19E-10
12	1	Surface	Cadmium	mg/kg	1.02E+00	2.79E-08	2.63E-09	1.80E-11
12	1	Surface	Chromium	mg/kg	6.33E+01	1.73E-06	8.15E-06	1.12E-09
12	1	Surface	Cobalt	mg/kg	9.16E+00	2.51E-07	1.18E-06	1.62E-10
12	1	Surface	Iron	mg/kg	3.01E+04	8.24E-04	3.87E-03	5.31E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
12	1	Surface	Manganese	mg/kg	1.01E+03	2.78E-05	1.04E-04	1.79E-08
12	1	Surface	Mercury	mg/kg	8.80E+00	2.41E-07	1.13E-06	4.64E-06
12	1	Surface	Molybdenum	mg/kg	1.74E+01	4.77E-07	2.24E-06	3.08E-10
12	1	Surface	Nickel	mg/kg	7.74E+01	2.12E-06	7.98E-06	1.37E-09
12	1	Surface	PCB, Total	mg/kg	3.90E-01	1.07E-08	1.41E-07	1.16E-08
12	1	Surface	Silver	mg/kg	1.10E+01	3.02E-07	1.14E-06	1.95E-10
12	1	Surface	Thallium	mg/kg	1.03E+00	2.82E-08	1.33E-07	1.82E-11
12	1	Surface	Total PAH	mg/kg	1.70E-01	4.66E-09	5.69E-08	2.22E-10
12	1	Surface	Uranium	mg/kg	3.76E+02	1.03E-05	4.84E-05	6.64E-09
12	1	Surface	Uranium-234	pCi/g	1.50E+01	4.12E-07		2.65E-10
12	1	Surface	Uranium-235	pCi/g	1.53E+00	4.18E-08		2.70E-11
12	1	Surface	Uranium-238	pCi/g	6.68E+01	1.83E-06		1.18E-09
12	1	Surface	Vanadium	mg/kg	2.80E+01	7.68E-07	1.88E-06	4.95E-10
13	1	Surface	PCB, Total	mg/kg	7.00E-01	1.92E-08	2.52E-07	2.09E-08
13	4	Surface	Uranium-238	pCi/g	1.32E+00	3.62E-08		2.33E-11
13	5	Surface	Aluminum	mg/kg	1.13E+04	3.08E-04	1.45E-03	1.99E-07
13	5	Surface	Antimony	mg/kg	8.20E-01	2.25E-08	1.06E-07	1.45E-11
13	5	Surface	Cadmium	mg/kg	1.20E+00	3.29E-08	3.09E-09	2.12E-11
13	5	Surface	Chromium	mg/kg	1.51E+01	4.14E-07	1.94E-06	2.67E-10
13	5	Surface	Nickel	mg/kg	1.17E+02	3.19E-06	1.20E-05	2.06E-09
13	5	Surface	PCB, Total	mg/kg	1.05E+00	2.87E-08	3.78E-07	3.13E-08
13	5	Surface	Total PAH	mg/kg	6.65E-02	1.82E-09	2.23E-08	8.69E-11
13	5	Surface	Uranium	mg/kg	1.19E+02	3.26E-06	1.53E-05	2.11E-09
13	6	Surface	Uranium-238	pCi/g	1.32E+00	3.61E-08		2.33E-11
13	9	Surface	Neptunium-237	pCi/g	8.90E-01	2.44E-08		1.57E-11
13	9	Surface	Uranium	mg/kg	1.82E+01	4.99E-07	2.34E-06	3.22E-10
13	9	Surface	Uranium-235	pCi/g	3.11E-01	8.52E-09		5.50E-12
13	9	Surface	Uranium-238	pCi/g	6.08E+00	1.67E-07		1.07E-10
13	11	Surface	Cobalt-60	pCi/g	1.30E-02	3.56E-10		2.30E-13
14	1	Surface	Americium-241	pCi/g	1.27E+00	3.47E-08		2.24E-11
14	1	Surface	Arsenic	mg/kg	1.10E+01	3.01E-07	8.48E-07	1.94E-10
14	1	Surface	Chromium	mg/kg	6.36E+01	1.74E-06	8.19E-06	1.12E-09
14	1	Surface	Iron	mg/kg	1.89E+04	5.17E-04	2.43E-03	3.33E-07
14	1	Surface	Neptunium-237	pCi/g	2.14E-01	5.86E-09		3.78E-12
14	1	Surface	Nickel	mg/kg	1.40E+02	3.83E-06	1.44E-05	2.47E-09
14	1	Surface	PCB, Total	mg/kg	5.00E-01	1.37E-08	1.80E-07	1.49E-08
14	1	Surface	Silver	mg/kg	1.67E+01	4.57E-07	1.72E-06	2.95E-10
14	1	Surface	Technetium-99	pCi/g	4.06E+02	1.11E-05		7.18E-09
14	1	Surface	Uranium	mg/kg	7.21E+01	1.98E-06	9.29E-06	1.28E-09
14	1	Surface	Uranium-238	pCi/g	1.69E+00	4.63E-08		2.99E-11
14	2	Surface	Antimony	mg/kg	3.70E+00	1.01E-07	4.76E-07	6.54E-11
14	2	Surface	Arsenic	mg/kg	1.45E+01	3.98E-07	1.12E-06	2.57E-10
14	2	Surface	Beryllium	mg/kg	7.10E-01	1.95E-08	1.28E-08	1.25E-11

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	2	Surface	Chromium	mg/kg	6.65E+01	1.82E-06	8.57E-06	1.18E-09
14	2	Surface	Copper	mg/kg	1.76E+02	4.83E-06	2.27E-05	3.12E-09
14	2	Surface	Iron	mg/kg	3.72E+04	1.02E-03	4.79E-03	6.57E-07
14	2	Surface	Manganese	mg/kg	1.44E+03	3.95E-05	1.49E-04	2.55E-08
14	2	Surface	Mercury	mg/kg	2.67E-01	7.32E-09	3.44E-08	1.41E-07
14	2	Surface	Neptunium-237	pCi/g	7.70E-01	2.11E-08		1.36E-11
14	2	Surface	Nickel	mg/kg	6.78E+02	1.86E-05	6.98E-05	1.20E-08
14	2	Surface	PCB, Total	mg/kg	3.90E-01	1.07E-08	1.41E-07	1.16E-08
14	2	Surface	Thorium-230	pCi/g	5.98E+00	1.64E-07		1.06E-10
14	2	Surface	Total PAH	mg/kg	3.38E-01	9.26E-09	1.13E-07	4.42E-10
14	2	Surface	Uranium	mg/kg	2.93E+02	8.04E-06	3.78E-05	5.18E-09
14	2	Surface	Uranium-234	pCi/g	3.24E+01	8.88E-07		5.73E-10
14	2	Surface	Uranium-235	pCi/g	2.00E+00	5.48E-08		3.54E-11
14	2	Surface	Uranium-238	pCi/g	5.61E+01	1.54E-06		9.92E-10
14	3	Surface	Arsenic	mg/kg	1.30E+01	3.55E-07	1.00E-06	2.29E-10
14	3	Surface	Chromium	mg/kg	7.01E+01	1.92E-06	9.03E-06	1.24E-09
14	3	Surface	Copper	mg/kg	1.29E+02	3.54E-06	1.66E-05	2.29E-09
14	3	Surface	Iron	mg/kg	3.48E+04	9.54E-04	4.48E-03	6.16E-07
14	3	Surface	Manganese	mg/kg	1.06E+03	2.90E-05	1.09E-04	1.87E-08
14	3	Surface	Mercury	mg/kg	7.48E+00	2.05E-07	9.63E-07	3.94E-06
14	3	Surface	Molybdenum	mg/kg	2.21E+01	6.05E-07	2.84E-06	3.90E-10
14	3	Surface	Nickel	mg/kg	5.76E+02	1.58E-05	5.94E-05	1.02E-08
14	3	Surface	PCB, Total	mg/kg	8.65E+00	2.37E-07	3.12E-06	2.58E-07
14	3	Surface	Uranium	mg/kg	2.18E+02	5.96E-06	2.80E-05	3.85E-09
14	3	Surface	Uranium-238	pCi/g	1.50E+00	4.11E-08		2.65E-11
14	4	Surface	Antimony	mg/kg	4.30E+00	1.18E-07	5.54E-07	7.60E-11
14	4	Surface	Arsenic	mg/kg	1.33E+01	3.64E-07	1.03E-06	2.35E-10
14	4	Surface	Chromium	mg/kg	7.20E+01	1.97E-06	9.28E-06	1.27E-09
14	4	Surface	Copper	mg/kg	3.54E+02	9.68E-06	4.55E-05	6.25E-09
14	4	Surface	Iron	mg/kg	3.88E+04	1.06E-03	5.00E-03	6.87E-07
14	4	Surface	Mercury	mg/kg	4.87E-01	1.33E-08	6.27E-08	2.57E-07
14	4	Surface	Neptunium-237	pCi/g	2.68E+00	7.34E-08		4.74E-11
14	4	Surface	Nickel	mg/kg	7.31E+02	2.00E-05	7.53E-05	1.29E-08
14	4	Surface	PCB, Total	mg/kg	6.61E+00	1.81E-07	2.38E-06	1.97E-07
14	4	Surface	Silver	mg/kg	1.17E+01	3.21E-07	1.21E-06	2.07E-10
14	4	Surface	Thorium-230	pCi/g	8.33E+00	2.28E-07		1.47E-10
14	4	Surface	Total PAH	mg/kg	2.51E-01	6.87E-09	8.40E-08	3.28E-10
14	4	Surface	Uranium	mg/kg	3.72E+02	1.02E-05	4.79E-05	6.57E-09
14	4	Surface	Uranium-234	pCi/g	1.13E+02	3.10E-06		2.00E-09
14	4	Surface	Uranium-235	pCi/g	8.00E+00	2.19E-07		1.41E-10
14	4	Surface	Uranium-238	pCi/g	1.69E+02	4.63E-06		2.99E-09
14	5	Surface	Antimony	mg/kg	2.30E+00	6.30E-08	2.96E-07	4.07E-11
14	5	Surface	Arsenic	mg/kg	1.31E+01	3.58E-07	1.01E-06	2.31E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	5	Surface	Cadmium	mg/kg	3.90E+00	1.07E-07	1.00E-08	6.89E-11
14	5	Surface	Chromium	mg/kg	4.70E+01	1.29E-06	6.05E-06	8.30E-10
14	5	Surface	Cobalt	mg/kg	1.40E+01	3.84E-07	1.80E-06	2.47E-10
14	5	Surface	Copper	mg/kg	1.34E+02	3.66E-06	1.72E-05	2.36E-09
14	5	Surface	Iron	mg/kg	3.92E+04	1.07E-03	5.05E-03	6.93E-07
14	5	Surface	Manganese	mg/kg	8.28E+02	2.27E-05	8.53E-05	1.46E-08
14	5	Surface	Mercury	mg/kg	1.09E+01	3.00E-07	1.41E-06	5.76E-06
14	5	Surface	Neptunium-237	pCi/g	1.74E+00	4.77E-08		3.08E-11
14	5	Surface	Nickel	mg/kg	4.61E+02	1.26E-05	4.75E-05	8.15E-09
14	5	Surface	PCB, Total	mg/kg	1.00E+00	2.74E-08	3.61E-07	2.98E-08
14	5	Surface	Silver	mg/kg	1.29E+01	3.53E-07	1.33E-06	2.27E-10
14	5	Surface	Technetium-99	pCi/g	1.01E+02	2.77E-06		1.79E-09
14	5	Surface	Thallium	mg/kg	4.10E-01	1.12E-08	5.28E-08	7.25E-12
14	5	Surface	Thorium-230	pCi/g	1.39E+01	3.81E-07		2.46E-10
14	5	Surface	Total PAH	mg/kg	1.21E-01	3.31E-09	4.05E-08	1.58E-10
14	5	Surface	Uranium	mg/kg	2.62E+02	7.18E-06	3.38E-05	4.63E-09
14	5	Surface	Uranium-234	pCi/g	5.22E+01	1.43E-06		9.23E-10
14	5	Surface	Uranium-235	pCi/g	3.33E+00	9.12E-08		5.89E-11
14	5	Surface	Uranium-238	pCi/g	9.42E+01	2.58E-06		1.67E-09
14	6	Surface	Antimony	mg/kg	2.70E+00	7.40E-08	3.48E-07	4.77E-11
14	6	Surface	Cadmium	mg/kg	8.40E-01	2.30E-08	2.16E-09	1.48E-11
14	6	Surface	Chromium	mg/kg	4.46E+02	1.22E-05	5.74E-05	7.88E-09
14	6	Surface	Copper	mg/kg	1.22E+02	3.35E-06	1.57E-05	2.16E-09
14	6	Surface	Mercury	mg/kg	3.47E-01	9.51E-09	4.47E-08	1.83E-07
14	6	Surface	Neptunium-237	pCi/g	2.65E+00	7.26E-08		4.68E-11
14	6	Surface	Nickel	mg/kg	9.63E+02	2.64E-05	9.92E-05	1.70E-08
14	6	Surface	PCB, Total	mg/kg	5.00E+00	1.37E-07	1.80E-06	1.49E-07
14	6	Surface	Silver	mg/kg	1.19E+01	3.25E-07	1.22E-06	2.10E-10
14	6	Surface	Uranium	mg/kg	5.79E+02	1.59E-05	7.45E-05	1.02E-08
14	6	Surface	Uranium-234	pCi/g	3.41E+01	9.34E-07		6.03E-10
14	6	Surface	Uranium-235	pCi/g	2.27E+00	6.22E-08		4.01E-11
14	6	Surface	Uranium-238	pCi/g	5.08E+01	1.39E-06		8.98E-10
14	7	Surface	Antimony	mg/kg	7.50E-01	2.05E-08	9.66E-08	1.33E-11
14	7	Surface	Arsenic	mg/kg	1.13E+01	3.10E-07	8.73E-07	2.00E-10
14	7	Surface	Cadmium	mg/kg	2.70E+00	7.40E-08	6.95E-09	4.77E-11
14	7	Surface	Chromium	mg/kg	6.46E+01	1.77E-06	8.31E-06	1.14E-09
14	7	Surface	Mercury	mg/kg	7.82E+00	2.14E-07	1.01E-06	4.12E-06
14	7	Surface	Neptunium-237	pCi/g	1.49E+00	4.08E-08		2.63E-11
14	7	Surface	Nickel	mg/kg	1.22E+03	3.35E-05	1.26E-04	2.16E-08
14	7	Surface	PCB, Total	mg/kg	7.60E+00	2.08E-07	2.74E-06	2.27E-07
14	7	Surface	Total PAH	mg/kg	6.31E-02	1.73E-09	2.11E-08	8.25E-11
14	7	Surface	Uranium	mg/kg	3.33E+02	9.12E-06	4.29E-05	5.88E-09
14	7	Surface	Uranium-234	pCi/g	1.28E+01	3.51E-07		2.26E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	7	Surface	Uranium-235	pCi/g	9.60E-01	2.63E-08		1.70E-11
14	7	Surface	Uranium-238	pCi/g	2.13E+01	5.84E-07		3.76E-10
14	8	Surface	Antimony	mg/kg	6.10E-01	1.67E-08	7.85E-08	1.08E-11
14	8	Surface	Arsenic	mg/kg	1.14E+01	3.12E-07	8.79E-07	2.01E-10
14	8	Surface	Chromium	mg/kg	4.60E+01	1.26E-06	5.93E-06	8.14E-10
14	8	Surface	Mercury	mg/kg	7.90E+00	2.16E-07	1.02E-06	4.16E-06
14	8	Surface	Neptunium-237	pCi/g	8.80E-01	2.41E-08		1.56E-11
14	8	Surface	Nickel	mg/kg	6.73E+02	1.84E-05	6.93E-05	1.19E-08
14	8	Surface	PCB, Total	mg/kg	5.00E+00	1.37E-07	1.80E-06	1.49E-07
14	8	Surface	Silver	mg/kg	9.63E+00	2.64E-07	9.92E-07	1.70E-10
14	8	Surface	Total PAH	mg/kg	6.28E-02	1.72E-09	2.10E-08	8.20E-11
14	8	Surface	Uranium	mg/kg	3.35E+02	9.19E-06	4.32E-05	5.93E-09
14	8	Surface	Uranium-235	pCi/g	2.38E-01	6.52E-09		4.21E-12
14	8	Surface	Uranium-238	pCi/g	5.92E+00	1.62E-07		1.05E-10
14	9	Surface	Antimony	mg/kg	2.00E+00	5.48E-08	2.58E-07	3.54E-11
14	9	Surface	Arsenic	mg/kg	1.40E+01	3.85E-07	1.08E-06	2.48E-10
14	9	Surface	Cadmium	mg/kg	9.40E-01	2.58E-08	2.42E-09	1.66E-11
14	9	Surface	Cesium-137	pCi/g	4.53E-01	1.24E-08		8.01E-12
14	9	Surface	Chromium	mg/kg	4.64E+01	1.27E-06	5.98E-06	8.21E-10
14	9	Surface	Mercury	mg/kg	1.13E+00	3.10E-08	1.46E-07	5.95E-07
14	9	Surface	Neptunium-237	pCi/g	1.09E+01	2.99E-07		1.93E-10
14	9	Surface	Nickel	mg/kg	9.43E+02	2.58E-05	9.72E-05	1.67E-08
14	9	Surface	PCB, Total	mg/kg	6.84E+00	1.87E-07	2.47E-06	2.04E-07
14	9	Surface	Technetium-99	pCi/g	1.96E+02	5.37E-06		3.46E-09
14	9	Surface	Total PAH	mg/kg	4.87E-01	1.34E-08	1.63E-07	6.37E-10
14	9	Surface	Uranium	mg/kg	1.46E+03	4.01E-05	1.89E-04	2.59E-08
14	9	Surface	Uranium-234	pCi/g	8.32E+02	2.28E-05		1.47E-08
14	9	Surface	Uranium-235	pCi/g	5.46E+01	1.49E-06		9.64E-10
14	9	Surface	Uranium-238	pCi/g	1.20E+03	3.29E-05		2.12E-08
14	10	Surface	Antimony	mg/kg	9.40E-01	2.58E-08	1.21E-07	1.66E-11
14	10	Surface	Arsenic	mg/kg	1.12E+01	3.08E-07	8.68E-07	1.99E-10
14	10	Surface	Chromium	mg/kg	4.19E+01	1.15E-06	5.39E-06	7.40E-10
14	10	Surface	Copper	mg/kg	1.41E+02	3.87E-06	1.82E-05	2.50E-09
14	10	Surface	Iron	mg/kg	2.75E+04	7.52E-04	3.53E-03	4.85E-07
14	10	Surface	Mercury	mg/kg	2.51E+01	6.87E-07	3.23E-06	1.32E-05
14	10	Surface	Neptunium-237	pCi/g	2.64E+00	7.23E-08		4.67E-11
14	10	Surface	Nickel	mg/kg	6.00E+02	1.64E-05	6.18E-05	1.06E-08
14	10	Surface	PCB, Total	mg/kg	9.38E+00	2.57E-07	3.38E-06	2.80E-07
14	10	Surface	Total PAH	mg/kg	2.72E-01	7.44E-09	9.09E-08	3.55E-10
14	10	Surface	Uranium	mg/kg	2.88E+02	7.90E-06	3.71E-05	5.10E-09
14	10	Surface	Uranium-234	pCi/g	2.42E+01	6.63E-07		4.28E-10
14	10	Surface	Uranium-235	pCi/g	1.76E+00	4.82E-08		3.11E-11
14	10	Surface	Uranium-238	pCi/g	4.09E+01	1.12E-06		7.23E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	1	Surface	Antimony	mg/kg	6.40E-01	1.75E-08	8.24E-08	1.13E-11
15	1	Surface	Arsenic	mg/kg	1.24E+01	3.39E-07	9.56E-07	2.19E-10
15	1	Surface	Chromium	mg/kg	5.61E+01	1.54E-06	7.22E-06	9.92E-10
15	1	Surface	Copper	mg/kg	1.95E+02	5.34E-06	2.51E-05	3.44E-09
15	1	Surface	Iron	mg/kg	2.95E+04	8.09E-04	3.80E-03	5.22E-07
15	1	Surface	Nickel	mg/kg	1.33E+02	3.63E-06	1.37E-05	2.34E-09
15	1	Surface	PCB, Total	mg/kg	7.80E-02	2.14E-09	2.81E-08	2.32E-09
15	1	Surface	Silver	mg/kg	1.23E+01	3.37E-07	1.27E-06	2.17E-10
15	1	Surface	Total PAH	mg/kg	1.71E+00	4.70E-08	5.74E-07	2.24E-09
15	1	Surface	Uranium	mg/kg	3.09E+01	8.47E-07	3.98E-06	5.47E-10
15	1	Surface	Uranium-238	pCi/g	1.85E+00	5.07E-08		3.27E-11
15	2	Surface	Antimony	mg/kg	6.60E-01	1.81E-08	8.50E-08	1.17E-11
15	2	Surface	Arsenic	mg/kg	1.63E+01	4.45E-07	1.26E-06	2.87E-10
15	2	Surface	Chromium	mg/kg	5.90E+01	1.62E-06	7.60E-06	1.04E-09
15	2	Surface	Iron	mg/kg	3.89E+04	1.07E-03	5.01E-03	6.87E-07
15	2	Surface	Mercury	mg/kg	9.33E+00	2.56E-07	1.20E-06	4.92E-06
15	2	Surface	Neptunium-237	pCi/g	1.35E-01	3.70E-09		2.39E-12
15	2	Surface	Nickel	mg/kg	1.97E+02	5.40E-06	2.03E-05	3.49E-09
15	2	Surface	PCB, Total	mg/kg	3.30E-01	9.04E-09	1.19E-07	9.83E-09
15	2	Surface	Total PAH	mg/kg	2.11E+00	5.77E-08	7.06E-07	2.75E-09
15	2	Surface	Uranium	mg/kg	1.32E+02	3.61E-06	1.70E-05	2.33E-09
15	2	Surface	Uranium-234	pCi/g	6.51E+00	1.78E-07		1.15E-10
15	2	Surface	Uranium-235	pCi/g	3.80E-01	1.04E-08		6.72E-12
15	2	Surface	Uranium-238	pCi/g	1.21E+01	3.32E-07		2.14E-10
15	3	Surface	Antimony	mg/kg	2.45E+01	6.71E-07	3.15E-06	4.33E-10
15	3	Surface	Arsenic	mg/kg	2.60E+01	7.12E-07	2.01E-06	4.59E-10
15	3	Surface	Beryllium	mg/kg	7.60E-01	2.08E-08	1.37E-08	1.34E-11
15	3	Surface	Cadmium	mg/kg	1.19E+01	3.26E-07	3.06E-08	2.10E-10
15	3	Surface	Chromium	mg/kg	7.53E+01	2.06E-06	9.70E-06	1.33E-09
15	3	Surface	Cobalt	mg/kg	3.41E+01	9.34E-07	4.39E-06	6.03E-10
15	3	Surface	Copper	mg/kg	1.40E+03	3.82E-05	1.80E-04	2.47E-08
15	3	Surface	Iron	mg/kg	9.20E+04	2.52E-03	1.18E-02	1.63E-06
15	3	Surface	Manganese	mg/kg	1.60E+03	4.39E-05	1.65E-04	2.84E-08
15	3	Surface	Mercury	mg/kg	2.74E+00	7.51E-08	3.53E-07	1.44E-06
15	3	Surface	Molybdenum	mg/kg	1.70E+01	4.66E-07	2.19E-06	3.00E-10
15	3	Surface	Neptunium-237	pCi/g	4.10E+00	1.12E-07		7.25E-11
15	3	Surface	Nickel	mg/kg	7.57E+02	2.07E-05	7.79E-05	1.34E-08
15	3	Surface	PCB, Total	mg/kg	6.82E+00	1.87E-07	2.46E-06	2.03E-07
15	3	Surface	Selenium	mg/kg	2.65E+01	7.25E-07	3.41E-06	4.68E-10
15	3	Surface	Silver	mg/kg	3.20E+00	8.77E-08	3.30E-07	5.66E-11
15	3	Surface	Technetium-99	pCi/g	3.67E+02	1.01E-05		6.49E-09
15	3	Surface	Thorium-230	pCi/g	7.23E+00	1.98E-07		1.28E-10
15	3	Surface	Total PAH	mg/kg	1.45E+00	3.98E-08	4.87E-07	1.90E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	3	Surface	Uranium	mg/kg	2.16E+02	5.92E-06	2.78E-05	3.82E-09
15	3	Surface	Uranium-234	pCi/g	6.96E+01	1.91E-06		1.23E-09
15	3	Surface	Uranium-235	pCi/g	4.21E+00	1.15E-07		7.44E-11
15	3	Surface	Uranium-238	pCi/g	9.67E+01	2.65E-06		1.71E-09
15	3	Surface	Zinc	mg/kg	8.79E+02	2.41E-05	1.13E-04	1.55E-08
15	4	Surface	Antimony	mg/kg	7.40E+00	2.03E-07	9.53E-07	1.31E-10
15	4	Surface	Arsenic	mg/kg	3.47E+01	9.49E-07	2.68E-06	6.12E-10
15	4	Surface	Cadmium	mg/kg	1.40E+00	3.84E-08	3.61E-09	2.47E-11
15	4	Surface	Chromium	mg/kg	1.02E+02	2.80E-06	1.32E-05	1.81E-09
15	4	Surface	Copper	mg/kg	7.05E+02	1.93E-05	9.08E-05	1.25E-08
15	4	Surface	Iron	mg/kg	7.81E+04	2.14E-03	1.01E-02	1.38E-06
15	4	Surface	Manganese	mg/kg	1.54E+03	4.21E-05	1.58E-04	2.71E-08
15	4	Surface	Mercury	mg/kg	1.41E+01	3.86E-07	1.81E-06	7.42E-06
15	4	Surface	Neptunium-237	pCi/g	8.00E-01	2.19E-08		1.41E-11
15	4	Surface	Nickel	mg/kg	1.37E+03	3.76E-05	1.42E-04	2.43E-08
15	4	Surface	PCB, Total	mg/kg	2.67E+01	7.32E-07	9.63E-06	7.96E-07
15	4	Surface	Silver	mg/kg	1.46E+01	4.00E-07	1.50E-06	2.58E-10
15	4	Surface	Total PAH	mg/kg	2.44E+00	6.70E-08	8.19E-07	3.20E-09
15	4	Surface	Uranium	mg/kg	1.57E+02	4.29E-06	2.02E-05	2.77E-09
15	4	Surface	Uranium-234	pCi/g	1.07E+01	2.93E-07		1.89E-10
15	4	Surface	Uranium-235	pCi/g	4.30E-01	1.18E-08		7.60E-12
15	4	Surface	Uranium-238	pCi/g	1.87E+01	5.12E-07		3.31E-10
15	4	Surface	Zinc	mg/kg	1.19E+03	3.26E-05	1.53E-04	2.10E-08
15	5	Surface	Antimony	mg/kg	3.10E+00	8.49E-08	3.99E-07	5.48E-11
15	5	Surface	Arsenic	mg/kg	1.28E+01	3.50E-07	9.88E-07	2.26E-10
15	5	Surface	Cadmium	mg/kg	1.50E+00	4.11E-08	3.86E-09	2.65E-11
15	5	Surface	Chromium	mg/kg	4.28E+01	1.17E-06	5.51E-06	7.56E-10
15	5	Surface	Copper	mg/kg	5.63E+03	1.54E-04	7.25E-04	9.95E-08
15	5	Surface	Mercury	mg/kg	3.38E-01	9.26E-09	4.35E-08	1.78E-07
15	5	Surface	Neptunium-237	pCi/g	6.90E-01	1.89E-08		1.22E-11
15	5	Surface	Nickel	mg/kg	5.10E+02	1.40E-05	5.26E-05	9.02E-09
15	5	Surface	PCB, Total	mg/kg	2.51E+01	6.88E-07	9.06E-06	7.49E-07
15	5	Surface	Silver	mg/kg	1.46E+01	4.00E-07	1.50E-06	2.58E-10
15	5	Surface	Technetium-99	pCi/g	1.07E+02	2.93E-06		1.89E-09
15	5	Surface	Total PAH	mg/kg	5.11E-01	1.40E-08	1.71E-07	6.67E-10
15	5	Surface	Uranium	mg/kg	2.13E+02	5.85E-06	2.75E-05	3.77E-09
15	5	Surface	Uranium-234	pCi/g	5.83E+00	1.60E-07		1.03E-10
15	5	Surface	Uranium-235	pCi/g	4.60E-01	1.26E-08		8.13E-12
15	5	Surface	Uranium-238	pCi/g	1.03E+01	2.82E-07		1.82E-10
15	5	Surface	Zinc	mg/kg	1.52E+03	4.18E-05	1.96E-04	2.69E-08
15	6	Surface	Antimony	mg/kg	5.10E+00	1.40E-07	6.57E-07	9.01E-11
15	6	Surface	Arsenic	mg/kg	1.24E+01	3.41E-07	9.60E-07	2.20E-10
15	6	Surface	Cadmium	mg/kg	1.50E+00	4.11E-08	3.86E-09	2.65E-11

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	6	Surface	Chromium	mg/kg	5.80E+01	1.59E-06	7.46E-06	1.02E-09
15	6	Surface	Cobalt	mg/kg	1.62E+01	4.44E-07	2.09E-06	2.86E-10
15	6	Surface	Copper	mg/kg	4.23E+02	1.16E-05	5.45E-05	7.48E-09
15	6	Surface	Iron	mg/kg	3.15E+04	8.63E-04	4.06E-03	5.57E-07
15	6	Surface	Mercury	mg/kg	4.10E-01	1.12E-08	5.28E-08	2.16E-07
15	6	Surface	Neptunium-237	pCi/g	6.40E-01	1.75E-08		1.13E-11
15	6	Surface	Nickel	mg/kg	3.24E+02	8.88E-06	3.34E-05	5.73E-09
15	6	Surface	PCB, Total	mg/kg	6.17E+00	1.69E-07	2.22E-06	1.84E-07
15	6	Surface	Silver	mg/kg	1.09E+01	2.99E-07	1.12E-06	1.93E-10
15	6	Surface	Total PAH	mg/kg	1.62E+00	4.45E-08	5.44E-07	2.12E-09
15	6	Surface	Uranium	mg/kg	6.70E+01	1.84E-06	8.63E-06	1.18E-09
15	6	Surface	Uranium-234	pCi/g	8.74E+00	2.39E-07		1.54E-10
15	6	Surface	Uranium-235	pCi/g	5.70E-01	1.56E-08		1.01E-11
15	6	Surface	Uranium-238	pCi/g	1.54E+01	4.22E-07		2.72E-10
15	7	Surface	Antimony	mg/kg	7.50E-01	2.05E-08	9.66E-08	1.33E-11
15	7	Surface	Arsenic	mg/kg	1.61E+01	4.41E-07	1.24E-06	2.84E-10
15	7	Surface	Cadmium	mg/kg	1.00E+00	2.74E-08	2.58E-09	1.77E-11
15	7	Surface	Chromium	mg/kg	7.87E+01	2.16E-06	1.01E-05	1.39E-09
15	7	Surface	Copper	mg/kg	7.33E+02	2.01E-05	9.44E-05	1.30E-08
15	7	Surface	Iron	mg/kg	3.42E+04	9.37E-04	4.40E-03	6.05E-07
15	7	Surface	Manganese	mg/kg	1.11E+03	3.03E-05	1.14E-04	1.95E-08
15	7	Surface	Neptunium-237	pCi/g	2.23E-01	6.11E-09		3.94E-12
15	7	Surface	Nickel	mg/kg	5.59E+02	1.53E-05	5.75E-05	9.87E-09
15	7	Surface	PCB, Total	mg/kg	2.57E+01	7.03E-07	9.26E-06	7.65E-07
15	7	Surface	Silver	mg/kg	1.29E+01	3.52E-07	1.32E-06	2.27E-10
15	7	Surface	Total PAH	mg/kg	1.59E-01	4.35E-09	5.32E-08	2.08E-10
15	7	Surface	Uranium	mg/kg	5.39E+01	1.48E-06	6.94E-06	9.53E-10
15	7	Surface	Uranium-234	pCi/g	6.49E+00	1.78E-07		1.15E-10
15	7	Surface	Uranium-235	pCi/g	4.50E-01	1.23E-08		7.95E-12
15	7	Surface	Uranium-238	pCi/g	8.05E+00	2.21E-07		1.42E-10
15	7	Surface	Zinc	mg/kg	5.87E+02	1.61E-05	7.56E-05	1.04E-08
15	8	Surface	Antimony	mg/kg	5.40E+00	1.48E-07	6.95E-07	9.54E-11
15	8	Surface	Arsenic	mg/kg	1.17E+01	3.19E-07	9.00E-07	2.06E-10
15	8	Surface	Chromium	mg/kg	7.74E+01	2.12E-06	9.97E-06	1.37E-09
15	8	Surface	Copper	mg/kg	1.62E+02	4.43E-06	2.08E-05	2.86E-09
15	8	Surface	Iron	mg/kg	2.83E+04	7.74E-04	3.64E-03	4.99E-07
15	8	Surface	Mercury	mg/kg	1.00E+01	2.75E-07	1.29E-06	5.29E-06
15	8	Surface	Neptunium-237	pCi/g	3.65E-01	1.00E-08		6.45E-12
15	8	Surface	Nickel	mg/kg	1.82E+02	4.98E-06	1.87E-05	3.21E-09
15	8	Surface	PCB, Total	mg/kg	4.90E+00	1.34E-07	1.77E-06	1.46E-07
15	8	Surface	Silver	mg/kg	1.36E+01	3.71E-07	1.40E-06	2.40E-10
15	8	Surface	Total PAH	mg/kg	3.59E-01	9.83E-09	1.20E-07	4.69E-10
15	8	Surface	Uranium	mg/kg	4.46E+01	1.22E-06	5.74E-06	7.87E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	8	Surface	Uranium-235	pCi/g	3.04E-01	8.33E-09		5.37E-12
15	8	Surface	Uranium-238	pCi/g	6.64E+00	1.82E-07		1.17E-10
15	9	Surface	Arsenic	mg/kg	1.10E+01	3.02E-07	8.53E-07	1.95E-10
15	9	Surface	Chromium	mg/kg	9.56E+01	2.62E-06	1.23E-05	1.69E-09
15	9	Surface	Copper	mg/kg	1.36E+02	3.72E-06	1.75E-05	2.40E-09
15	9	Surface	Iron	mg/kg	2.76E+04	7.56E-04	3.55E-03	4.88E-07
15	9	Surface	Neptunium-237	pCi/g	1.28E-01	3.51E-09		2.26E-12
15	9	Surface	Nickel	mg/kg	1.49E+02	4.08E-06	1.53E-05	2.63E-09
15	9	Surface	PCB, Total	mg/kg	3.30E-01	9.04E-09	1.19E-07	9.83E-09
15	9	Surface	Silver	mg/kg	1.54E+01	4.22E-07	1.59E-06	2.73E-10
15	9	Surface	Total PAH	mg/kg	2.38E-01	6.53E-09	7.98E-08	3.11E-10
15	9	Surface	Uranium	mg/kg	3.07E+01	8.40E-07	3.95E-06	5.42E-10
15	9	Surface	Uranium-235	pCi/g	2.42E-01	6.63E-09		4.28E-12
15	9	Surface	Uranium-238	pCi/g	7.12E+00	1.95E-07		1.26E-10
15	10	Surface	Chromium	mg/kg	3.55E+01	9.73E-07	4.57E-06	6.27E-10
15	10	Surface	Mercury	mg/kg	7.84E+00	2.15E-07	1.01E-06	4.13E-06
15	10	Surface	Nickel	mg/kg	1.46E+02	3.99E-06	1.50E-05	2.58E-09
15	10	Surface	Silver	mg/kg	1.08E+01	2.96E-07	1.11E-06	1.91E-10
15	10	Surface	Total PAH	mg/kg	1.28E-01	3.52E-09	4.30E-08	1.68E-10
15	10	Surface	Uranium	mg/kg	6.47E+01	1.77E-06	8.34E-06	1.14E-09
16	1	Surface	Cesium-137	pCi/g	1.10E+00	3.01E-08		1.94E-11
16	1	Surface	PCB, Total	mg/kg	9.60E-02	2.63E-09	3.46E-08	2.86E-09
16	1	Surface	Total PAH	mg/kg	2.72E-02	7.45E-10	9.11E-09	3.55E-11
16	2	Surface	Beryllium	mg/kg	8.40E-01	2.30E-08	1.51E-08	1.48E-11
16	2	Surface	Chromium	mg/kg	2.04E+01	5.59E-07	2.63E-06	3.61E-10
16	2	Surface	Nickel	mg/kg	2.16E+01	5.92E-07	2.23E-06	3.82E-10
16	3	Surface	PCB, Total	mg/kg	9.49E-01	2.60E-08	3.42E-07	2.83E-08
16	4	Surface	Cesium-137	pCi/g	3.66E+01	1.00E-06		6.47E-10
16	4	Surface	Cobalt-60	pCi/g	8.53E-03	2.34E-10		1.51E-13
16	4	Surface	Neptunium-237	pCi/g	7.12E+00	1.95E-07		1.26E-10
16	4	Surface	PCB, Total	mg/kg	3.20E-01	8.77E-09	1.15E-07	9.54E-09
16	4	Surface	Technetium-99	pCi/g	2.96E+02	8.10E-06		5.23E-09
16	4	Surface	Thorium-230	pCi/g	5.29E+00	1.45E-07		9.35E-11
16	4	Surface	Total PAH	mg/kg	2.93E+00	8.02E-08	9.80E-07	3.83E-09
16	4	Surface	Uranium-234	pCi/g	1.19E+02	3.26E-06		2.10E-09
16	4	Surface	Uranium-235	pCi/g	8.23E+00	2.25E-07		1.45E-10
16	4	Surface	Uranium-238	pCi/g	2.70E+02	7.40E-06		4.77E-09
19	1	Surface	Beryllium	mg/kg	1.10E+00	3.01E-08	1.98E-08	1.94E-11
19	1	Surface	Cadmium	mg/kg	1.20E+00	3.29E-08	3.09E-09	2.12E-11
19	1	Surface	Thallium	mg/kg	9.80E-01	2.68E-08	1.26E-07	1.73E-11
19	1	Surface	Total PAH	mg/kg	5.23E+00	1.43E-07	1.75E-06	6.83E-09
26	1	Surface	Arsenic	mg/kg	1.29E+01	3.53E-07	9.95E-07	2.28E-10
26	1	Surface	Beryllium	mg/kg	6.69E-01	1.83E-08	1.21E-08	1.18E-11

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
26	1	Surface	Cadmium	mg/kg	1.99E+00	5.46E-08	5.13E-09	3.52E-11
26	1	Surface	Cesium-137	pCi/g	3.16E+00	8.67E-08		5.59E-11
26	1	Surface	Chromium	mg/kg	1.90E+01	5.21E-07	2.45E-06	3.36E-10
26	1	Surface	Cobalt-60	pCi/g	1.93E-03	5.29E-11		3.41E-14
26	1	Surface	Mercury	mg/kg	1.66E-01	4.55E-09	2.14E-08	8.75E-08
26	1	Surface	Neptunium-237	pCi/g	2.61E-01	7.15E-09		4.61E-12
26	1	Surface	Nickel	mg/kg	1.76E+01	4.82E-07	1.81E-06	3.11E-10
26	1	Surface	PCB, Total	mg/kg	9.33E-01	2.56E-08	3.36E-07	2.78E-08
26	1	Surface	Plutonium-239/240	pCi/g	4.04E+00	1.11E-07		7.13E-11
26	1	Surface	Thorium-230	pCi/g	3.82E+00	1.05E-07		6.75E-11
26	1	Surface	Total PAH	mg/kg	5.00E-02	1.37E-09	1.67E-08	6.53E-11
26	1	Surface	Uranium	mg/kg	1.29E+02	3.53E-06	1.66E-05	2.27E-09
26	1	Surface	Uranium-234	pCi/g	4.67E+00	1.28E-07		8.25E-11
26	1	Surface	Uranium-235	pCi/g	6.41E-01	1.76E-08		1.13E-11
26	1	Surface	Uranium-238	pCi/g	3.47E+01	9.50E-07		6.13E-10
26	2	Surface	Aluminum	mg/kg	2.17E+04	5.93E-04	2.79E-03	3.83E-07
26	2	Surface	Arsenic	mg/kg	4.72E+01	1.29E-06	3.65E-06	8.34E-10
26	2	Surface	Barium	mg/kg	1.49E+02	4.07E-06	1.91E-05	2.63E-09
26	2	Surface	Beryllium	mg/kg	9.69E+00	2.66E-07	1.75E-07	1.71E-10
26	2	Surface	Cadmium	mg/kg	2.38E+00	6.52E-08	6.13E-09	4.21E-11
26	2	Surface	Cesium-137	pCi/g	5.92E+00	1.62E-07		1.05E-10
26	2	Surface	Chromium	mg/kg	3.90E+01	1.07E-06	5.02E-06	6.89E-10
26	2	Surface	Cobalt	mg/kg	5.20E+01	1.42E-06	6.69E-06	9.19E-10
26	2	Surface	Copper	mg/kg	1.31E+02	3.59E-06	1.69E-05	2.32E-09
26	2	Surface	Iron	mg/kg	5.32E+04	1.46E-03	6.85E-03	9.40E-07
26	2	Surface	Neptunium-237	pCi/g	7.89E-01	2.16E-08		1.39E-11
26	2	Surface	Nickel	mg/kg	1.13E+02	3.10E-06	1.17E-05	2.00E-09
26	2	Surface	PCB, Total	mg/kg	2.23E+00	6.11E-08	8.04E-07	6.64E-08
26	2	Surface	Thallium	mg/kg	1.39E+01	3.81E-07	1.79E-06	2.46E-10
26	2	Surface	Thorium-230	pCi/g	1.51E+01	4.15E-07		2.67E-10
26	2	Surface	Uranium	mg/kg	6.46E+02	1.77E-05	8.32E-05	1.14E-08
26	2	Surface	Uranium-234	pCi/g	1.91E+01	5.22E-07		3.37E-10
26	2	Surface	Uranium-235	pCi/g	1.71E+00	4.68E-08		3.02E-11
26	2	Surface	Uranium-238	pCi/g	5.14E+01	1.41E-06		9.09E-10
26	2	Surface	Vanadium	mg/kg	3.13E+01	8.56E-07	2.09E-06	5.52E-10
26	3	Surface	Aluminum	mg/kg	9.55E+03	2.62E-04	1.23E-03	1.69E-07
26	3	Surface	Antimony	mg/kg	1.40E+00	3.84E-08	1.80E-07	2.47E-11
26	3	Surface	Arsenic	mg/kg	5.09E+01	1.39E-06	3.93E-06	8.99E-10
26	3	Surface	Barium	mg/kg	4.48E+02	1.23E-05	5.76E-05	7.91E-09
26	3	Surface	Beryllium	mg/kg	2.54E+00	6.95E-08	4.57E-08	4.48E-11
26	3	Surface	Cadmium	mg/kg	2.34E+00	6.41E-08	6.03E-09	4.14E-11
26	3	Surface	Cesium-137	pCi/g	7.48E-01	2.05E-08		1.32E-11
26	3	Surface	Chromium	mg/kg	3.25E+01	8.92E-07	4.19E-06	5.75E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
26	3	Surface	Cobalt	mg/kg	1.21E+01	3.32E-07	1.56E-06	2.14E-10
26	3	Surface	Mercury	mg/kg	3.87E-01	1.06E-08	4.98E-08	2.04E-07
26	3	Surface	Naphthalene	mg/kg	1.32E+00	3.62E-08	8.50E-07	7.78E-07
26	3	Surface	Neptunium-237	pCi/g	7.53E-01	2.06E-08		1.33E-11
26	3	Surface	Nickel	mg/kg	2.97E+01	8.14E-07	3.06E-06	5.25E-10
26	3	Surface	PCB, Total	mg/kg	2.52E+00	6.90E-08	9.08E-07	7.50E-08
26	3	Surface	Silver	mg/kg	2.59E+01	7.10E-07	2.67E-06	4.58E-10
26	3	Surface	Technetium-99	pCi/g	6.48E+01	1.77E-06		1.14E-09
26	3	Surface	Thallium	mg/kg	6.00E-01	1.64E-08	7.73E-08	1.06E-11
26	3	Surface	Thorium-230	pCi/g	7.10E+00	1.94E-07		1.25E-10
26	3	Surface	Total PAH	mg/kg	1.19E+00	3.25E-08	3.98E-07	1.55E-09
26	3	Surface	Uranium	mg/kg	9.88E+01	2.71E-06	1.27E-05	1.75E-09
26	3	Surface	Uranium-234	pCi/g	4.63E+01	1.27E-06		8.19E-10
26	3	Surface	Uranium-235	pCi/g	1.69E+00	4.63E-08		2.99E-11
26	3	Surface	Uranium-238	pCi/g	5.19E+01	1.42E-06		9.16E-10
26	3	Surface	Vanadium	mg/kg	3.77E+01	1.03E-06	2.52E-06	6.66E-10
26	4	Surface	Aluminum	mg/kg	1.07E+04	2.92E-04	1.37E-03	1.89E-07
26	4	Surface	Americium-241	pCi/g	1.27E+00	3.49E-08		2.25E-11
26	4	Surface	Antimony	mg/kg	6.00E-01	1.64E-08	7.73E-08	1.06E-11
26	4	Surface	Beryllium	mg/kg	6.91E-01	1.89E-08	1.25E-08	1.22E-11
26	4	Surface	Cadmium	mg/kg	1.99E+00	5.45E-08	5.13E-09	3.52E-11
26	4	Surface	Cesium-137	pCi/g	6.38E-01	1.75E-08		1.13E-11
26	4	Surface	Chromium	mg/kg	8.57E+01	2.35E-06	1.10E-05	1.52E-09
26	4	Surface	Cobalt-60	pCi/g	1.21E-03	3.32E-11		2.14E-14
26	4	Surface	Copper	mg/kg	1.16E+02	3.17E-06	1.49E-05	2.05E-09
26	4	Surface	Mercury	mg/kg	3.07E+00	8.42E-08	3.96E-07	1.62E-06
26	4	Surface	Neptunium-237	pCi/g	1.36E+01	3.72E-07		2.40E-10
26	4	Surface	Nickel	mg/kg	7.54E+01	2.07E-06	7.77E-06	1.33E-09
26	4	Surface	PCB, Total	mg/kg	5.54E-01	1.52E-08	2.00E-07	1.65E-08
26	4	Surface	Plutonium-239/240	pCi/g	5.00E+00	1.37E-07		8.84E-11
26	4	Surface	Technetium-99	pCi/g	5.97E+02	1.64E-05		1.06E-08
26	4	Surface	Thorium-230	pCi/g	3.26E+01	8.94E-07		5.77E-10
26	4	Surface	Total PAH	mg/kg	2.83E-02	7.76E-10	9.48E-09	3.70E-11
26	4	Surface	Uranium	mg/kg	9.75E+02	2.67E-05	1.26E-04	1.72E-08
26	4	Surface	Uranium-234	pCi/g	1.54E+02	4.23E-06		2.73E-09
26	4	Surface	Uranium-235	pCi/g	8.80E+00	2.41E-07		1.56E-10
26	4	Surface	Uranium-235	pCi/g	3.19E+01	8.74E-07		5.64E-10
26	4	Surface	Uranium-238	pCi/g				
47	1	Surface	Aluminum	mg/kg	1.50E+04	4.11E-04	1.93E-03	2.65E-07
47	1	Surface	Antimony	mg/kg	9.00E-01	2.47E-08	1.16E-07	1.59E-11
47	1	Surface	Arsenic	mg/kg	4.52E+01	1.24E-06	3.49E-06	7.99E-10
47	1	Surface	Beryllium	mg/kg	7.00E-01	1.92E-08	1.26E-08	1.24E-11
47	1	Surface	Cadmium	mg/kg	4.25E+00	1.16E-07	1.09E-08	7.51E-11

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
47	1	Surface	Chromium	mg/kg	5.39E+01	1.48E-06	6.94E-06	9.53E-10
47	1	Surface	Cobalt	mg/kg	1.43E+01	3.92E-07	1.84E-06	2.53E-10
47	1	Surface	Iron	mg/kg	2.95E+04	8.08E-04	3.80E-03	5.21E-07
47	1	Surface	Naphthalene	mg/kg	1.90E+00	5.21E-08	1.22E-06	1.12E-06
47	1	Surface	Neptunium-237	pCi/g	1.15E-01	3.15E-09		2.03E-12
47	1	Surface	Nickel	mg/kg	8.25E+01	2.26E-06	8.50E-06	1.46E-09
47	1	Surface	PCB, Total	mg/kg	9.60E-01	2.63E-08	3.46E-07	2.86E-08
47	1	Surface	Plutonium-239/240	pCi/g	4.11E+00	1.13E-07		7.26E-11
47	1	Surface	Pyrene	mg/kg	1.11E+02	3.03E-06	3.70E-05	1.28E-06
47	1	Surface	Thorium-230	pCi/g	4.11E+01	1.13E-06		7.26E-10
47	1	Surface	Total PAH	mg/kg	5.41E+01	1.48E-06	1.81E-05	7.07E-08
47	1	Surface	Uranium	mg/kg	3.23E+01	8.85E-07	4.16E-06	5.71E-10
47	1	Surface	Uranium-234	pCi/g	6.85E+00	1.88E-07		1.21E-10
47	1	Surface	Uranium-235	pCi/g	5.00E-01	1.37E-08		8.84E-12
47	1	Surface	Uranium-238	pCi/g	7.93E+00	2.17E-07		1.40E-10
74	1	Surface	PCB, Total	mg/kg	2.97E+00	8.15E-08	1.07E-06	8.86E-08
74	1	Surface	Total PAH	mg/kg	3.16E+00	8.66E-08	1.06E-06	4.13E-09
74	1	Surface	Uranium-234	pCi/g	7.55E+00	2.07E-07		1.33E-10
74	1	Surface	Uranium-238	pCi/g	3.85E+01	1.05E-06		6.81E-10
75	1	Surface	Cadmium	mg/kg	1.10E+00	3.01E-08	2.83E-09	1.94E-11
75	1	Surface	Chromium	mg/kg	7.17E+01	1.96E-06	9.24E-06	1.27E-09
75	1	Surface	Copper	mg/kg	3.15E+02	8.63E-06	4.06E-05	5.57E-09
75	1	Surface	Nickel	mg/kg	8.87E+01	2.43E-06	9.14E-06	1.57E-09
75	1	Surface	PCB, Total	mg/kg	2.30E-01	6.30E-09	8.29E-08	6.85E-09
75	1	Surface	Total PAH	mg/kg	2.21E-01	6.06E-09	7.41E-08	2.89E-10
76	1	Surface	Barium	mg/kg	2.69E+02	7.37E-06	3.46E-05	4.75E-09
76	1	Surface	PCB, Total	mg/kg	2.60E-01	7.12E-09	9.37E-08	7.75E-09
76	1	Surface	Total PAH	mg/kg	1.76E+00	4.82E-08	5.89E-07	2.30E-09
76	1	Surface	Uranium-238	pCi/g	1.45E+00	3.97E-08		2.56E-11
78	1	Surface	Cadmium	mg/kg	2.36E+00	6.47E-08	6.08E-09	4.17E-11
78	1	Surface	Chromium	mg/kg	3.75E+01	1.03E-06	4.83E-06	6.63E-10
78	1	Surface	Cobalt-60	pCi/g	5.91E-03	1.62E-10		1.04E-13
78	1	Surface	Naphthalene	mg/kg	1.60E+01	4.38E-07	1.03E-05	9.43E-06
78	1	Surface	Nickel	mg/kg	2.15E+01	5.89E-07	2.21E-06	3.80E-10
78	1	Surface	PCB, Total	mg/kg	1.20E+01	3.29E-07	4.33E-06	3.58E-07
78	1	Surface	Total PAH	mg/kg	3.91E+01	1.07E-06	1.31E-05	5.11E-08
78	1	Surface	Uranium-235	pCi/g	2.64E-01	7.23E-09		4.67E-12
78	1	Surface	Uranium-238	pCi/g	5.29E+00	1.45E-07		9.35E-11
80	1	Surface	Americium-241	pCi/g	6.40E+00	1.75E-07		1.13E-10
80	1	Surface	Antimony	mg/kg	9.10E-01	2.49E-08	1.17E-07	1.61E-11
80	1	Surface	Beryllium	mg/kg	7.80E-01	2.14E-08	1.41E-08	1.38E-11
80	1	Surface	Chromium	mg/kg	1.65E+02	4.52E-06	2.12E-05	2.92E-09
80	1	Surface	Mercury	mg/kg	4.50E-01	1.23E-08	5.79E-08	2.37E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
80	1	Surface	Neptunium-237	pCi/g	5.05E-01	1.38E-08		8.93E-12
80	1	Surface	PCB, Total	mg/kg	1.46E+01	4.01E-07	5.27E-06	4.36E-07
80	1	Surface	Thorium-230	pCi/g	4.40E+00	1.21E-07		7.78E-11
80	1	Surface	Total PAH	mg/kg	1.42E-01	3.88E-09	4.74E-08	1.85E-10
80	1	Surface	Uranium	mg/kg	5.72E+03	1.57E-04	7.37E-04	1.01E-07
80	1	Surface	Uranium-234	pCi/g	2.29E+02	6.27E-06		4.05E-09
80	1	Surface	Uranium-235	pCi/g	3.00E+01	8.22E-07		5.30E-10
80	1	Surface	Uranium-238	pCi/g	1.92E+03	5.26E-05		3.40E-08
81	1	Surface	Aluminum	mg/kg	9.57E+03	2.62E-04	1.23E-03	1.69E-07
81	1	Surface	Arsenic	mg/kg	1.03E+01	2.81E-07	7.92E-07	1.81E-10
81	1	Surface	Beryllium	mg/kg	7.57E-01	2.07E-08	1.36E-08	1.34E-11
81	1	Surface	Chromium	mg/kg	8.62E+01	2.36E-06	1.11E-05	1.52E-09
81	1	Surface	Mercury	mg/kg	8.33E+00	2.28E-07	1.07E-06	4.39E-06
81	1	Surface	Nickel	mg/kg	7.29E+01	2.00E-06	7.51E-06	1.29E-09
81	1	Surface	PCB, Total	mg/kg	1.60E+02	4.38E-06	5.76E-05	4.76E-06
81	1	Surface	Silver	mg/kg	2.70E+00	7.40E-08	2.78E-07	4.77E-11
81	1	Surface	Total PAH	mg/kg	5.53E-01	1.52E-08	1.85E-07	7.23E-10
81	1	Surface	Uranium	mg/kg	6.50E+03	1.78E-04	8.37E-04	1.15E-07
81	1	Surface	Uranium-238	pCi/g	2.29E+00	6.26E-08		4.04E-11
99	1	Surface	Chromium	mg/kg	5.51E+01	1.51E-06	7.10E-06	9.74E-10
99	1	Surface	Cobalt-60	pCi/g	1.19E-02	3.26E-10		2.10E-13
99	1	Surface	Mercury	mg/kg	9.53E+00	2.61E-07	1.23E-06	5.02E-06
99	1	Surface	Nickel	mg/kg	7.02E+01	1.92E-06	7.23E-06	1.24E-09
99	1	Surface	Silver	mg/kg	1.03E+01	2.82E-07	1.06E-06	1.82E-10
99	1	Surface	Uranium-238	pCi/g	9.45E-01	2.59E-08		1.67E-11
138	1	Surface	Antimony	mg/kg	5.39E+00	1.48E-07	6.95E-07	9.53E-11
138	1	Surface	Arsenic	mg/kg	1.06E+01	2.91E-07	8.21E-07	1.88E-10
138	1	Surface	Cadmium	mg/kg	5.42E+00	1.48E-07	1.40E-08	9.58E-11
138	1	Surface	Chromium	mg/kg	5.39E+01	1.48E-06	6.93E-06	9.52E-10
138	1	Surface	Mercury	mg/kg	1.30E+01	3.56E-07	1.67E-06	6.84E-06
138	1	Surface	Nickel	mg/kg	7.04E+01	1.93E-06	7.25E-06	1.24E-09
138	1	Surface	PCB, Total	mg/kg	5.00E-01	1.37E-08	1.80E-07	1.49E-08
138	1	Surface	Silver	mg/kg	1.01E+01	2.76E-07	1.04E-06	1.78E-10
138	1	Surface	Total PAH	mg/kg	9.74E-02	2.67E-09	3.26E-08	1.27E-10
138	2	Surface	Nickel	mg/kg	7.99E+01	2.19E-06	8.23E-06	1.41E-09
138	2	Surface	PCB, Total	mg/kg	9.20E-02	2.52E-09	3.32E-08	2.74E-09
138	2	Surface	Silver	mg/kg	1.04E+01	2.86E-07	1.08E-06	1.85E-10
138	2	Surface	Total PAH	mg/kg	3.84E-02	1.05E-09	1.29E-08	5.02E-11
153	1	Surface	PCB, Total	mg/kg	5.09E-01	1.39E-08	1.84E-07	1.52E-08
153	1	Surface	Total PAH	mg/kg	8.69E-02	2.38E-09	2.91E-08	1.14E-10
154	1	Surface	Arsenic	mg/kg	1.52E+01	4.16E-07	1.17E-06	2.68E-10
154	1	Surface	Chromium	mg/kg	4.28E+01	1.17E-06	5.51E-06	7.56E-10
154	1	Surface	Nickel	mg/kg	9.89E+01	2.71E-06	1.02E-05	1.75E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
154	1	Surface	PCB, Total	mg/kg	3.20E+00	8.77E-08	1.15E-06	9.54E-08
154	1	Surface	Total PAH	mg/kg	1.04E+00	2.85E-08	3.48E-07	1.36E-09
154	1	Surface	Uranium	mg/kg	3.82E+01	1.05E-06	4.92E-06	6.75E-10
154	1	Surface	Uranium-238	pCi/g	3.06E+00	8.38E-08		5.41E-11
154	2	Surface	PCB, Total	mg/kg	4.00E-01	1.10E-08	1.44E-07	1.19E-08
155	1	Surface	Antimony	mg/kg	3.65E+00	1.00E-07	4.71E-07	6.46E-11
155	1	Surface	Chromium	mg/kg	3.47E+01	9.51E-07	4.47E-06	6.13E-10
155	1	Surface	Neptunium-237	pCi/g	1.03E-01	2.82E-09		1.82E-12
155	1	Surface	Nickel	mg/kg	7.65E+01	2.10E-06	7.88E-06	1.35E-09
155	1	Surface	PCB, Total	mg/kg	9.20E+00	2.52E-07	3.32E-06	2.74E-07
155	1	Surface	Silver	mg/kg	1.11E+01	3.04E-07	1.14E-06	1.96E-10
156	1	Surface	Chromium	mg/kg	4.90E+01	1.34E-06	6.31E-06	8.67E-10
156	1	Surface	Manganese	mg/kg	2.83E+03	7.76E-05	2.92E-04	5.01E-08
156	1	Surface	Mercury	mg/kg	9.87E+00	2.70E-07	1.27E-06	5.20E-06
156	1	Surface	Nickel	mg/kg	6.16E+01	1.69E-06	6.35E-06	1.09E-09
156	1	Surface	PCB, Total	mg/kg	3.00E-01	8.22E-09	1.08E-07	8.94E-09
156	1	Surface	Total PAH	mg/kg	8.26E-02	2.26E-09	2.77E-08	1.08E-10
156	1	Surface	Uranium	mg/kg	2.32E+01	6.35E-07	2.99E-06	4.10E-10
156	1	Surface	Uranium-238	pCi/g	2.19E+00	6.00E-08		3.87E-11
158	1	Surface	Antimony	mg/kg	5.23E-01	1.43E-08	6.73E-08	9.24E-12
158	1	Surface	Arsenic	mg/kg	1.01E+01	2.77E-07	7.82E-07	1.79E-10
158	1	Surface	Barium	mg/kg	2.19E+02	5.99E-06	2.82E-05	3.87E-09
158	1	Surface	Chromium	mg/kg	6.07E+01	1.66E-06	7.82E-06	1.07E-09
158	1	Surface	Cobalt	mg/kg	1.62E+01	4.44E-07	2.09E-06	2.87E-10
158	1	Surface	Manganese	mg/kg	9.91E+02	2.71E-05	1.02E-04	1.75E-08
158	1	Surface	Mercury	mg/kg	1.05E+01	2.87E-07	1.35E-06	5.51E-06
158	1	Surface	Nickel	mg/kg	7.28E+01	2.00E-06	7.50E-06	1.29E-09
158	1	Surface	Thallium	mg/kg	3.12E-01	8.55E-09	4.02E-08	5.51E-12
158	1	Surface	Total PAH	mg/kg	3.69E-01	1.01E-08	1.24E-07	4.82E-10
158	1	Surface	Uranium	mg/kg	2.03E+01	5.56E-07	2.61E-06	3.59E-10
158	1	Surface	Uranium-235	pCi/g	1.63E-01	4.47E-09		2.88E-12
158	1	Surface	Uranium-238	pCi/g	3.79E+00	1.04E-07		6.70E-11
160	1	Surface	Antimony	mg/kg	6.80E-01	1.86E-08	8.76E-08	1.20E-11
160	1	Surface	Total PAH	mg/kg	5.29E-02	1.45E-09	1.77E-08	6.91E-11
163	1	Surface	Chromium	mg/kg	4.94E+01	1.35E-06	6.37E-06	8.74E-10
163	1	Surface	Total PAH	mg/kg	1.63E-01	4.47E-09	5.46E-08	2.13E-10
165	1	Surface	Antimony	mg/kg	2.20E+00	6.03E-08	2.83E-07	3.89E-11
165	1	Surface	Arsenic	mg/kg	6.35E+01	1.74E-06	4.91E-06	1.12E-09
165	1	Surface	Barium	mg/kg	5.84E+02	1.60E-05	7.52E-05	1.03E-08
165	1	Surface	Beryllium	mg/kg	6.82E-01	1.87E-08	1.23E-08	1.21E-11
165	1	Surface	Cesium-137	pCi/g	3.47E+00	9.51E-08		6.14E-11
165	1	Surface	Chromium	mg/kg	3.74E+01	1.02E-06	4.81E-06	6.61E-10
165	1	Surface	Mercury	mg/kg	3.78E-01	1.04E-08	4.87E-08	1.99E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
165	1	Surface	Naphthalene	mg/kg	1.61E+00	4.41E-08	1.04E-06	9.49E-07
165	1	Surface	Neptunium-237	pCi/g	4.26E-01	1.17E-08		7.53E-12
165	1	Surface	Nickel	mg/kg	3.47E+01	9.50E-07	3.57E-06	6.13E-10
165	1	Surface	PCB, Total	mg/kg	8.27E+00	2.27E-07	2.98E-06	2.46E-07
165	1	Surface	Plutonium-239/240	pCi/g	2.81E+00	7.68E-08		4.96E-11
165	1	Surface	Silver	mg/kg	3.09E+01	8.47E-07	3.19E-06	5.47E-10
165	1	Surface	Thorium-230	pCi/g	6.02E+00	1.65E-07		1.06E-10
165	1	Surface	Total PAH	mg/kg	1.87E+00	5.12E-08	6.25E-07	2.44E-09
165	1	Surface	Uranium	mg/kg	1.08E+02	2.95E-06	1.38E-05	1.90E-09
165	1	Surface	Uranium-234	pCi/g	5.76E+01	1.58E-06		1.02E-09
165	1	Surface	Uranium-235	pCi/g	2.05E+00	5.60E-08		3.61E-11
165	1	Surface	Uranium-238	pCi/g	6.41E+01	1.76E-06		1.13E-09
169	1	Surface	Aluminum	mg/kg	1.42E+04	3.89E-04	1.83E-03	2.51E-07
169	1	Surface	Antimony	mg/kg	1.30E+00	3.56E-08	1.67E-07	2.30E-11
169	1	Surface	Arsenic	mg/kg	2.03E+01	5.56E-07	1.57E-06	3.59E-10
169	1	Surface	Beryllium	mg/kg	8.00E-01	2.19E-08	1.44E-08	1.41E-11
169	1	Surface	Chromium	mg/kg	2.15E+02	5.89E-06	2.77E-05	3.80E-09
169	1	Surface	Copper	mg/kg	3.74E+02	1.03E-05	4.82E-05	6.62E-09
169	1	Surface	Iron	mg/kg	4.16E+04	1.14E-03	5.35E-03	7.35E-07
169	1	Surface	Mercury	mg/kg	7.87E+00	2.16E-07	1.01E-06	4.15E-06
169	1	Surface	Nickel	mg/kg	5.49E+02	1.50E-05	5.65E-05	9.70E-09
169	1	Surface	PCB, Total	mg/kg	1.00E+01	2.74E-07	3.61E-06	2.98E-07
169	1	Surface	Thallium	mg/kg	4.60E-01	1.26E-08	5.92E-08	8.13E-12
169	1	Surface	Total PAH	mg/kg	4.59E+00	1.26E-07	1.54E-06	5.99E-09
169	1	Surface	Uranium	mg/kg	5.03E+01	1.38E-06	6.48E-06	8.89E-10
169	1	Surface	Uranium-234	pCi/g	6.55E+00	1.79E-07		1.16E-10
169	1	Surface	Uranium-235	pCi/g	4.60E-01	1.26E-08		8.13E-12
169	1	Surface	Uranium-238	pCi/g	8.12E+00	2.22E-07		1.44E-10
170	1	Surface	Neptunium-237	pCi/g	1.15E-01	3.15E-09		2.03E-12
170	1	Surface	Uranium-238	pCi/g	1.53E+00	4.19E-08		2.70E-11
176	1	Surface	Arsenic	mg/kg	4.86E+01	1.33E-06	3.75E-06	8.58E-10
176	1	Surface	Chromium	mg/kg	4.27E+01	1.17E-06	5.50E-06	7.55E-10
176	1	Surface	Nickel	mg/kg	1.07E+02	2.94E-06	1.10E-05	1.89E-09
176	1	Surface	Uranium	mg/kg	2.21E+01	6.05E-07	2.84E-06	3.90E-10
180	1	Surface	Antimony	mg/kg	5.80E-01	1.59E-08	7.47E-08	1.03E-11
180	1	Surface	Arsenic	mg/kg	7.48E+01	2.05E-06	5.78E-06	1.32E-09
180	1	Surface	Chromium	mg/kg	5.54E+01	1.52E-06	7.14E-06	9.80E-10
180	1	Surface	Mercury	mg/kg	8.28E+00	2.27E-07	1.07E-06	4.36E-06
180	1	Surface	Nickel	mg/kg	8.77E+01	2.40E-06	9.03E-06	1.55E-09
180	2	Surface	Antimony	mg/kg	4.58E-01	1.25E-08	5.90E-08	8.10E-12
180	2	Surface	Arsenic	mg/kg	1.27E+01	3.47E-07	9.77E-07	2.24E-10
180	2	Surface	Chromium	mg/kg	4.46E+01	1.22E-06	5.75E-06	7.89E-10
180	2	Surface	Nickel	mg/kg	8.42E+01	2.31E-06	8.67E-06	1.49E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
180	2	Surface	Total PAH	mg/kg	9.19E-02	2.52E-09	3.08E-08	1.20E-10
180	3	Surface	Arsenic	mg/kg	1.34E+01	3.66E-07	1.03E-06	2.36E-10
180	3	Surface	Chromium	mg/kg	4.69E+01	1.29E-06	6.04E-06	8.30E-10
180	3	Surface	Nickel	mg/kg	6.77E+01	1.86E-06	6.98E-06	1.20E-09
180	3	Surface	Silver	mg/kg	1.14E+01	3.12E-07	1.17E-06	2.02E-10
180	4	Surface	Arsenic	mg/kg	1.15E+01	3.16E-07	8.91E-07	2.04E-10
180	4	Surface	Barium	mg/kg	2.13E+02	5.84E-06	2.74E-05	3.76E-09
180	4	Surface	Beryllium	mg/kg	1.60E+00	4.38E-08	2.88E-08	2.83E-11
180	4	Surface	Chromium	mg/kg	6.00E+01	1.64E-06	7.73E-06	1.06E-09
180	4	Surface	Iron	mg/kg	1.54E+04	4.21E-04	1.98E-03	2.72E-07
180	4	Surface	Manganese	mg/kg	7.09E+02	1.94E-05	7.30E-05	1.25E-08
180	4	Surface	Nickel	mg/kg	6.46E+01	1.77E-06	6.66E-06	1.14E-09
180	4	Surface	Silver	mg/kg	9.68E+00	2.65E-07	9.97E-07	1.71E-10
180	4	Surface	Total PAH	mg/kg	2.15E-02	5.89E-10	7.20E-09	2.81E-11
180	4	Surface	Vanadium	mg/kg	4.85E+01	1.33E-06	3.25E-06	8.57E-10
181	1	Surface	Chromium	mg/kg	2.29E+01	6.26E-07	2.94E-06	4.04E-10
181	1	Surface	Thallium	mg/kg	3.50E+00	9.59E-08	4.51E-07	6.19E-11
181	1	Surface	Total PAH	mg/kg	3.43E-02	9.40E-10	1.15E-08	4.48E-11
194	1	Surface	Antimony	mg/kg	1.50E+00	4.11E-08	1.93E-07	2.65E-11
194	1	Surface	Chromium	mg/kg	3.87E+01	1.06E-06	4.98E-06	6.84E-10
194	1	Surface	Mercury	mg/kg	6.71E+00	1.84E-07	8.64E-07	3.54E-06
194	1	Surface	Nickel	mg/kg	5.84E+01	1.60E-06	6.02E-06	1.03E-09
194	1	Surface	Silver	mg/kg	1.09E+01	2.99E-07	1.13E-06	1.93E-10
194	2	Surface	Chromium	mg/kg	5.96E+01	1.63E-06	7.67E-06	1.05E-09
194	2	Surface	Silver	mg/kg	1.31E+01	3.60E-07	1.35E-06	2.32E-10
194	2	Surface	Uranium	mg/kg	2.28E+01	6.24E-07	2.93E-06	4.03E-10
194	2	Surface	Uranium-238	pCi/g	1.42E+00	3.89E-08		2.51E-11
194	3	Surface	Antimony	mg/kg	6.90E-01	1.89E-08	8.88E-08	1.22E-11
194	3	Surface	Arsenic	mg/kg	1.46E+01	4.01E-07	1.13E-06	2.59E-10
194	3	Surface	Chromium	mg/kg	3.90E+01	1.07E-06	5.02E-06	6.89E-10
194	3	Surface	Nickel	mg/kg	6.40E+01	1.75E-06	6.60E-06	1.13E-09
194	3	Surface	Total PAH	mg/kg	3.93E-02	1.08E-09	1.32E-08	5.14E-11
194	3	Surface	Uranium-238	pCi/g	1.28E+00	3.52E-08		2.27E-11
194	4	Surface	Chromium	mg/kg	4.84E+01	1.33E-06	6.23E-06	8.56E-10
194	4	Surface	Mercury	mg/kg	8.92E+00	2.44E-07	1.15E-06	4.70E-06
194	4	Surface	Nickel	mg/kg	6.91E+01	1.89E-06	7.11E-06	1.22E-09
194	4	Surface	Silver	mg/kg	1.18E+01	3.23E-07	1.21E-06	2.08E-10
194	4	Surface	Total PAH	mg/kg	7.30E-02	2.00E-09	2.44E-08	9.53E-11
194	4	Surface	Uranium-238	pCi/g	1.73E+00	4.74E-08		3.06E-11
194	5	Surface	Chromium	mg/kg	4.58E+01	1.25E-06	5.90E-06	8.10E-10
194	5	Surface	Mercury	mg/kg	8.69E+00	2.38E-07	1.12E-06	4.58E-06
194	5	Surface	Nickel	mg/kg	7.54E+01	2.07E-06	7.77E-06	1.33E-09
194	5	Surface	Silver	mg/kg	1.25E+01	3.41E-07	1.28E-06	2.20E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	5	Surface	Total PAH	mg/kg	2.37E-02	6.49E-10	7.93E-09	3.10E-11
194	5	Surface	Uranium-238	pCi/g	1.38E+00	3.78E-08		2.44E-11
194	6	Surface	Chromium	mg/kg	3.70E+01	1.01E-06	4.77E-06	6.54E-10
194	6	Surface	Manganese	mg/kg	1.08E+03	2.96E-05	1.11E-04	1.91E-08
194	6	Surface	Nickel	mg/kg	8.06E+01	2.21E-06	8.30E-06	1.42E-09
194	6	Surface	Silver	mg/kg	9.89E+00	2.71E-07	1.02E-06	1.75E-10
194	6	Surface	Uranium-238	pCi/g	1.32E+00	3.62E-08		2.33E-11
194	7	Surface	Chromium	mg/kg	5.32E+01	1.46E-06	6.85E-06	9.40E-10
194	7	Surface	Nickel	mg/kg	7.71E+01	2.11E-06	7.95E-06	1.36E-09
194	7	Surface	Silver	mg/kg	1.25E+01	3.42E-07	1.29E-06	2.21E-10
194	8	Surface	Chromium	mg/kg	5.36E+01	1.47E-06	6.90E-06	9.47E-10
194	8	Surface	Manganese	mg/kg	8.00E+02	2.19E-05	8.24E-05	1.41E-08
194	8	Surface	Total PAH	mg/kg	4.85E-01	1.33E-08	1.62E-07	6.34E-10
194	8	Surface	Uranium-238	pCi/g	1.39E+00	3.81E-08		2.46E-11
194	9	Surface	Arsenic	mg/kg	1.14E+01	3.13E-07	8.82E-07	2.02E-10
194	9	Surface	Chromium	mg/kg	5.17E+01	1.42E-06	6.65E-06	9.13E-10
194	10	Surface	Arsenic	mg/kg	1.22E+01	3.33E-07	9.39E-07	2.15E-10
194	10	Surface	Cesium-137	pCi/g	5.81E-01	1.59E-08		1.03E-11
194	10	Surface	Chromium	mg/kg	3.63E+01	9.94E-07	4.67E-06	6.41E-10
194	10	Surface	Nickel	mg/kg	7.60E+01	2.08E-06	7.83E-06	1.34E-09
194	10	Surface	Total PAH	mg/kg	2.57E-01	7.05E-09	8.61E-08	3.36E-10
194	10	Surface	Uranium-238	pCi/g	1.49E+00	4.08E-08		2.63E-11
194	11	Surface	Chromium	mg/kg	3.27E+01	8.95E-07	4.21E-06	5.78E-10
194	11	Surface	Mercury	mg/kg	8.09E+00	2.22E-07	1.04E-06	4.26E-06
194	11	Surface	Nickel	mg/kg	1.01E+02	2.76E-06	1.04E-05	1.78E-09
194	11	Surface	PCB, Total	mg/kg	8.40E-02	2.30E-09	3.03E-08	2.50E-09
194	11	Surface	Silver	mg/kg	1.33E+01	3.64E-07	1.37E-06	2.35E-10
194	11	Surface	Total PAH	mg/kg	7.95E-02	2.18E-09	2.66E-08	1.04E-10
194	12	Surface	Chromium	mg/kg	6.34E+01	1.74E-06	8.16E-06	1.12E-09
194	12	Surface	Nickel	mg/kg	7.86E+01	2.15E-06	8.10E-06	1.39E-09
194	12	Surface	Silver	mg/kg	1.20E+01	3.28E-07	1.23E-06	2.12E-10
194	12	Surface	Total PAH	mg/kg	8.91E-01	2.44E-08	2.98E-07	1.17E-09
194	13	Surface	Chromium	mg/kg	4.77E+01	1.31E-06	6.14E-06	8.42E-10
194	13	Surface	Nickel	mg/kg	6.03E+01	1.65E-06	6.21E-06	1.07E-09
194	13	Surface	Total PAH	mg/kg	9.13E-02	2.50E-09	3.06E-08	1.19E-10
194	14	Surface	Chromium	mg/kg	5.21E+01	1.43E-06	6.71E-06	9.21E-10
194	14	Surface	Mercury	mg/kg	8.14E+00	2.23E-07	1.05E-06	4.29E-06
194	15	Surface	Chromium	mg/kg	5.33E+01	1.46E-06	6.87E-06	9.43E-10
194	15	Surface	Silver	mg/kg	1.03E+01	2.82E-07	1.06E-06	1.82E-10
194	16	Surface	Antimony	mg/kg	7.40E-01	2.03E-08	9.53E-08	1.31E-11
194	16	Surface	Arsenic	mg/kg	1.15E+01	3.16E-07	8.90E-07	2.04E-10
194	16	Surface	Beryllium	mg/kg	8.70E-01	2.38E-08	1.57E-08	1.54E-11
194	16	Surface	Chromium	mg/kg	5.32E+01	1.46E-06	6.86E-06	9.41E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	16	Surface	Nickel	mg/kg	7.20E+01	1.97E-06	7.42E-06	1.27E-09
194	16	Surface	Thallium	mg/kg	6.30E-01	1.73E-08	8.11E-08	1.11E-11
194	16	Surface	Vanadium	mg/kg	4.11E+01	1.13E-06	2.75E-06	7.26E-10
194	17	Surface	Arsenic	mg/kg	1.16E+01	3.16E-07	8.92E-07	2.04E-10
194	17	Surface	Cadmium	mg/kg	1.10E+00	3.01E-08	2.83E-09	1.94E-11
194	17	Surface	Chromium	mg/kg	4.65E+01	1.27E-06	5.99E-06	8.22E-10
194	17	Surface	Total PAH	mg/kg	1.59E-01	4.35E-09	5.31E-08	2.07E-10
194	18	Surface	Arsenic	mg/kg	1.06E+01	2.90E-07	8.17E-07	1.87E-10
194	18	Surface	Beryllium	mg/kg	7.40E-01	2.03E-08	1.33E-08	1.31E-11
194	18	Surface	Chromium	mg/kg	6.85E+01	1.88E-06	8.82E-06	1.21E-09
194	18	Surface	Nickel	mg/kg	5.78E+01	1.58E-06	5.95E-06	1.02E-09
194	19	Surface	Arsenic	mg/kg	1.07E+01	2.93E-07	8.26E-07	1.89E-10
194	19	Surface	Chromium	mg/kg	4.84E+01	1.32E-06	6.23E-06	8.55E-10
194	19	Surface	Nickel	mg/kg	5.84E+01	1.60E-06	6.01E-06	1.03E-09
194	20	Surface	Arsenic	mg/kg	1.18E+01	3.24E-07	9.15E-07	2.09E-10
194	20	Surface	Barium	mg/kg	3.26E+02	8.93E-06	4.20E-05	5.76E-09
194	20	Surface	Beryllium	mg/kg	1.10E+00	3.01E-08	1.98E-08	1.94E-11
194	20	Surface	Chromium	mg/kg	5.24E+01	1.43E-06	6.74E-06	9.25E-10
194	20	Surface	Cobalt	mg/kg	2.11E+01	5.78E-07	2.72E-06	3.73E-10
194	20	Surface	Manganese	mg/kg	2.29E+03	6.28E-05	2.36E-04	4.05E-08
194	20	Surface	Mercury	mg/kg	7.28E+00	1.99E-07	9.37E-07	3.84E-06
194	20	Surface	Nickel	mg/kg	6.57E+01	1.80E-06	6.77E-06	1.16E-09
194	20	Surface	Silver	mg/kg	1.22E+01	3.35E-07	1.26E-06	2.16E-10
194	20	Surface	Total PAH	mg/kg	3.10E-02	8.49E-10	1.04E-08	4.05E-11
194	20	Surface	Vanadium	mg/kg	3.81E+01	1.04E-06	2.55E-06	6.73E-10
194	21	Surface	Antimony	mg/kg	9.30E-01	2.55E-08	1.20E-07	1.64E-11
194	21	Surface	Chromium	mg/kg	5.51E+01	1.51E-06	7.09E-06	9.74E-10
194	21	Surface	Mercury	mg/kg	6.62E+00	1.81E-07	8.52E-07	3.49E-06
194	21	Surface	Nickel	mg/kg	7.01E+01	1.92E-06	7.22E-06	1.24E-09
194	21	Surface	Thallium	mg/kg	6.40E-01	1.75E-08	8.24E-08	1.13E-11
194	22	Surface	Chromium	mg/kg	4.90E+01	1.34E-06	6.31E-06	8.66E-10
194	22	Surface	Manganese	mg/kg	8.19E+02	2.24E-05	8.44E-05	1.45E-08
194	22	Surface	PCB, Total	mg/kg	1.09E+01	2.99E-07	3.94E-06	3.25E-07
194	23	Surface	Arsenic	mg/kg	1.16E+01	3.16E-07	8.92E-07	2.04E-10
194	23	Surface	Chromium	mg/kg	6.60E+01	1.81E-06	8.49E-06	1.17E-09
194	23	Surface	Iron	mg/kg	1.83E+04	5.01E-04	2.35E-03	3.23E-07
194	23	Surface	Nickel	mg/kg	8.77E+01	2.40E-06	9.03E-06	1.55E-09
194	23	Surface	Silver	mg/kg	1.15E+01	3.15E-07	1.18E-06	2.03E-10
194	24	Surface	Chromium	mg/kg	5.02E+01	1.38E-06	6.47E-06	8.87E-10
194	24	Surface	Nickel	mg/kg	7.08E+01	1.94E-06	7.29E-06	1.25E-09
194	24	Surface	Total PAH	mg/kg	2.28E-02	6.25E-10	7.63E-09	2.98E-11
194	25	Surface	Barium	mg/kg	3.00E+02	8.22E-06	3.86E-05	5.30E-09
194	25	Surface	Chromium	mg/kg	6.13E+01	1.68E-06	7.89E-06	1.08E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	25	Surface	Manganese	mg/kg	9.96E+02	2.73E-05	1.03E-04	1.76E-08
194	25	Surface	Nickel	mg/kg	6.33E+01	1.73E-06	6.52E-06	1.12E-09
194	25	Surface	Total PAH	mg/kg	2.06E-02	5.64E-10	6.90E-09	2.69E-11
194	26	Surface	Beryllium	mg/kg	7.00E-01	1.92E-08	1.26E-08	1.24E-11
194	26	Surface	Chromium	mg/kg	4.18E+01	1.15E-06	5.39E-06	7.39E-10
194	26	Surface	Silver	mg/kg	1.03E+01	2.81E-07	1.06E-06	1.82E-10
194	26	Surface	Thallium	mg/kg	3.90E-01	1.07E-08	5.02E-08	6.89E-12
194	27	Surface	Chromium	mg/kg	5.22E+01	1.43E-06	6.72E-06	9.22E-10
194	27	Surface	Nickel	mg/kg	6.55E+01	1.79E-06	6.75E-06	1.16E-09
194	27	Surface	Silver	mg/kg	1.01E+01	2.77E-07	1.04E-06	1.79E-10
194	28	Surface	Arsenic	mg/kg	1.20E+01	3.30E-07	9.29E-07	2.13E-10
194	28	Surface	Beryllium	mg/kg	7.10E-01	1.95E-08	1.28E-08	1.25E-11
194	28	Surface	Chromium	mg/kg	6.07E+01	1.66E-06	7.82E-06	1.07E-09
194	28	Surface	Manganese	mg/kg	1.14E+03	3.12E-05	1.17E-04	2.01E-08
194	28	Surface	Nickel	mg/kg	6.95E+01	1.90E-06	7.15E-06	1.23E-09
194	28	Surface	Silver	mg/kg	1.08E+01	2.96E-07	1.11E-06	1.91E-10
194	28	Surface	Vanadium	mg/kg	4.06E+01	1.11E-06	2.72E-06	7.18E-10
194	29	Surface	Antimony	mg/kg	7.10E-01	1.95E-08	9.14E-08	1.25E-11
194	29	Surface	Chromium	mg/kg	5.06E+01	1.39E-06	6.51E-06	8.94E-10
194	29	Surface	Nickel	mg/kg	6.51E+01	1.78E-06	6.71E-06	1.15E-09
194	29	Surface	Silver	mg/kg	9.77E+00	2.68E-07	1.01E-06	1.73E-10
194	30	Surface	Chromium	mg/kg	5.66E+01	1.55E-06	7.28E-06	1.00E-09
194	30	Surface	Mercury	mg/kg	8.80E+00	2.41E-07	1.13E-06	4.64E-06
194	30	Surface	Nickel	mg/kg	6.99E+01	1.91E-06	7.20E-06	1.23E-09
194	30	Surface	Silver	mg/kg	9.76E+00	2.67E-07	1.01E-06	1.73E-10
194	31	Surface	Cesium-137	pCi/g	5.70E-01	1.56E-08		1.01E-11
194	31	Surface	Uranium-238	pCi/g	1.72E+00	4.71E-08		3.04E-11
195	1	Surface	Chromium	mg/kg	6.33E+01	1.73E-06	8.15E-06	1.12E-09
195	1	Surface	Nickel	mg/kg	7.02E+01	1.92E-06	7.23E-06	1.24E-09
195	1	Surface	Silver	mg/kg	9.37E+00	2.57E-07	9.65E-07	1.66E-10
195	2	Surface	Chromium	mg/kg	4.52E+01	1.24E-06	5.82E-06	7.99E-10
195	2	Surface	Silver	mg/kg	9.48E+00	2.60E-07	9.77E-07	1.68E-10
195	2	Surface	Total PAH	mg/kg	2.68E-02	7.34E-10	8.97E-09	3.50E-11
195	3	Surface	Chromium	mg/kg	5.03E+01	1.38E-06	6.48E-06	8.89E-10
195	3	Surface	Nickel	mg/kg	5.22E+01	1.43E-06	5.37E-06	9.22E-10
195	3	Surface	Total PAH	mg/kg	4.06E-02	1.11E-09	1.36E-08	5.31E-11
195	4	Surface	Chromium	mg/kg	5.29E+01	1.45E-06	6.81E-06	9.35E-10
195	4	Surface	Nickel	mg/kg	6.23E+01	1.71E-06	6.42E-06	1.10E-09
195	5	Surface	Chromium	mg/kg	5.74E+01	1.57E-06	7.39E-06	1.01E-09
195	5	Surface	Nickel	mg/kg	8.11E+01	2.22E-06	8.35E-06	1.43E-09
195	5	Surface	Total PAH	mg/kg	2.40E-02	6.58E-10	8.04E-09	3.14E-11
195	6	Surface	Chromium	mg/kg	4.45E+01	1.22E-06	5.74E-06	7.87E-10
195	6	Surface	Nickel	mg/kg	8.71E+01	2.39E-06	8.97E-06	1.54E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
195	6	Surface	Total PAH	mg/kg	2.48E-01	6.79E-09	8.29E-08	3.24E-10
195	7	Surface	Chromium	mg/kg	4.93E+01	1.35E-06	6.34E-06	8.71E-10
195	7	Surface	Silver	mg/kg	8.06E+00	2.21E-07	8.30E-07	1.42E-10
195	8	Surface	Arsenic	mg/kg	1.16E+01	3.17E-07	8.93E-07	2.04E-10
195	8	Surface	Beryllium	mg/kg	7.40E-01	2.03E-08	1.33E-08	1.31E-11
195	8	Surface	Chromium	mg/kg	6.79E+01	1.86E-06	8.75E-06	1.20E-09
195	8	Surface	Cobalt	mg/kg	1.82E+01	4.99E-07	2.34E-06	3.22E-10
195	8	Surface	Nickel	mg/kg	7.01E+01	1.92E-06	7.22E-06	1.24E-09
195	8	Surface	Total PAH	mg/kg	2.16E-01	5.91E-09	7.22E-08	2.82E-10
195	8	Surface	Vanadium	mg/kg	4.04E+01	1.11E-06	2.71E-06	7.14E-10
195	9	Surface	Chromium	mg/kg	6.08E+01	1.67E-06	7.83E-06	1.07E-09
195	9	Surface	Nickel	mg/kg	7.93E+01	2.17E-06	8.17E-06	1.40E-09
195	10	Surface	Chromium	mg/kg	4.51E+01	1.23E-06	5.80E-06	7.97E-10
195	10	Surface	Nickel	mg/kg	7.40E+01	2.03E-06	7.63E-06	1.31E-09
195	10	Surface	Silver	mg/kg	1.31E+01	3.59E-07	1.35E-06	2.32E-10
195	11	Surface	Aluminum	mg/kg	2.81E+04	7.70E-04	3.62E-03	4.97E-07
195	11	Surface	Arsenic	mg/kg	1.35E+01	3.69E-07	1.04E-06	2.38E-10
195	11	Surface	Barium	mg/kg	4.53E+02	1.24E-05	5.83E-05	8.01E-09
195	11	Surface	Chromium	mg/kg	5.05E+01	1.38E-06	6.50E-06	8.93E-10
195	11	Surface	Cobalt	mg/kg	2.77E+01	7.59E-07	3.57E-06	4.90E-10
195	11	Surface	Iron	mg/kg	1.97E+04	5.40E-04	2.54E-03	3.48E-07
195	11	Surface	Nickel	mg/kg	6.77E+01	1.85E-06	6.97E-06	1.20E-09
195	11	Surface	Thallium	mg/kg	6.60E-01	1.81E-08	8.50E-08	1.17E-11
195	11	Surface	Vanadium	mg/kg	7.97E+01	2.18E-06	5.34E-06	1.41E-09
195	12	Surface	Beryllium	mg/kg	7.50E-01	2.05E-08	1.35E-08	1.33E-11
195	12	Surface	Chromium	mg/kg	7.04E+01	1.93E-06	9.06E-06	1.24E-09
195	12	Surface	Nickel	mg/kg	6.78E+01	1.86E-06	6.98E-06	1.20E-09
195	13	Surface	Chromium	mg/kg	6.55E+01	1.79E-06	8.44E-06	1.16E-09
195	13	Surface	Nickel	mg/kg	6.91E+01	1.89E-06	7.12E-06	1.22E-09
195	14	Surface	Chromium	mg/kg	5.94E+01	1.63E-06	7.65E-06	1.05E-09
195	14	Surface	Nickel	mg/kg	7.04E+01	1.93E-06	7.25E-06	1.24E-09
195	15	Surface	Chromium	mg/kg	4.82E+01	1.32E-06	6.20E-06	8.51E-10
195	16	Surface	Chromium	mg/kg	4.45E+01	1.22E-06	5.72E-06	7.86E-10
195	16	Surface	Nickel	mg/kg	8.16E+01	2.23E-06	8.40E-06	1.44E-09
195	17	Surface	Chromium	mg/kg	8.22E+01	2.25E-06	1.06E-05	1.45E-09
195	17	Surface	Mercury	mg/kg	4.17E-01	1.14E-08	5.37E-08	2.20E-07
195	17	Surface	Nickel	mg/kg	5.93E+01	1.63E-06	6.11E-06	1.05E-09
195	17	Surface	PCB, Total	mg/kg	7.40E-01	2.03E-08	2.67E-07	2.21E-08
195	17	Surface	Silver	mg/kg	1.01E+01	2.78E-07	1.04E-06	1.79E-10
195	17	Surface	Thallium	mg/kg	5.40E-01	1.48E-08	6.95E-08	9.54E-12
195	17	Surface	Total PAH	mg/kg	3.16E-01	8.65E-09	1.06E-07	4.13E-10
195	17	Surface	Uranium-235	pCi/g	1.32E-01	3.62E-09		2.33E-12
195	17	Surface	Uranium-238	pCi/g	2.48E+00	6.79E-08		4.38E-11

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
196	1	Surface	Antimony	mg/kg	5.90E-01	1.62E-08	7.60E-08	1.04E-11
196	1	Surface	Chromium	mg/kg	1.96E+01	5.37E-07	2.52E-06	3.46E-10
196	1	Surface	Neptunium-237	pCi/g	3.11E-01	8.52E-09		5.50E-12
196	1	Surface	Nickel	mg/kg	5.56E+02	1.52E-05	5.73E-05	9.83E-09
196	1	Surface	Uranium	mg/kg	2.33E+01	6.38E-07	3.00E-06	4.12E-10
196	1	Surface	Uranium-238	pCi/g	1.54E+00	4.22E-08		2.72E-11
196	2	Surface	Barium	mg/kg	2.02E+02	5.53E-06	2.60E-05	3.57E-09
196	2	Surface	Cadmium	mg/kg	2.53E+00	6.93E-08	6.52E-09	4.47E-11
196	2	Surface	Chromium	mg/kg	2.07E+01	5.67E-07	2.67E-06	3.66E-10
196	2	Surface	Nickel	mg/kg	7.36E+01	2.02E-06	7.58E-06	1.30E-09
196	2	Surface	PCB, Total	mg/kg	1.51E+00	4.14E-08	5.44E-07	4.50E-08
196	2	Surface	Total PAH	mg/kg	6.80E-01	1.86E-08	2.28E-07	8.89E-10
196	2	Surface	Uranium-238	pCi/g	2.21E+00	6.05E-08		3.91E-11
200	1	Surface	Antimony	mg/kg	5.60E-01	1.53E-08	7.21E-08	9.90E-12
200	1	Surface	Cesium-137	pCi/g	5.74E-01	1.57E-08		1.01E-11
200	1	Surface	Chromium	mg/kg	5.75E+01	1.58E-06	7.41E-06	1.02E-09
200	1	Surface	Mercury	mg/kg	6.71E+00	1.84E-07	8.64E-07	3.54E-06
200	1	Surface	Nickel	mg/kg	1.28E+02	3.51E-06	1.32E-05	2.26E-09
200	1	Surface	PCB, Total	mg/kg	2.60E+00	7.12E-08	9.37E-07	7.75E-08
200	1	Surface	Total PAH	mg/kg	2.84E-02	7.78E-10	9.51E-09	3.71E-11
200	1	Surface	Uranium	mg/kg	2.73E+01	7.48E-07	3.52E-06	4.83E-10
200	1	Surface	Uranium-235	pCi/g	1.43E-01	3.92E-09		2.53E-12
200	1	Surface	Uranium-238	pCi/g	3.58E+00	9.80E-08		6.32E-11
204	1	Surface	Aluminum	mg/kg	1.48E+04	4.05E-04	1.91E-03	2.62E-07
204	1	Surface	Beryllium	mg/kg	1.36E+00	3.73E-08	2.45E-08	2.40E-11
204	1	Surface	Cadmium	mg/kg	2.73E+00	7.48E-08	7.03E-09	4.83E-11
204	1	Surface	Chromium	mg/kg	7.40E+01	2.03E-06	9.53E-06	1.31E-09
204	1	Surface	Iron	mg/kg	4.19E+04	1.15E-03	5.40E-03	7.41E-07
204	1	Surface	PCB, Total	mg/kg	2.53E+00	6.93E-08	9.12E-07	7.54E-08
204	1	Surface	Uranium-235	pCi/g	1.80E-01	4.93E-09		3.18E-12
204	1	Surface	Uranium-238	pCi/g	5.20E+00	1.42E-07		9.19E-11
204	1	Surface	Vanadium	mg/kg	7.55E+01	2.07E-06	5.06E-06	1.33E-09
204	2	Surface	Aluminum	mg/kg	1.37E+04	3.75E-04	1.76E-03	2.42E-07
204	2	Surface	Chromium	mg/kg	1.80E+01	4.93E-07	2.32E-06	3.18E-10
204	2	Surface	PCB, Total	mg/kg	1.70E-01	4.66E-09	6.13E-08	5.07E-09
204	3	Surface	Chromium	mg/kg	2.06E+01	5.64E-07	2.65E-06	3.64E-10
204	3	Surface	Uranium-238	pCi/g	2.50E+00	6.85E-08		4.42E-11
204	4	Surface	Antimony	mg/kg	1.10E+00	3.01E-08	1.42E-07	1.94E-11
204	4	Surface	Chromium	mg/kg	2.89E+01	7.92E-07	3.72E-06	5.11E-10
204	4	Surface	Uranium-235	pCi/g	1.88E-01	5.15E-09		3.32E-12
204	4	Surface	Uranium-238	pCi/g	9.72E+00	2.66E-07		1.72E-10
204	18	Surface	Cesium-137	pCi/g	6.30E-01	1.73E-08		1.11E-11
204	18	Surface	Uranium	mg/kg	1.60E+01	4.38E-07	2.06E-06	2.83E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
204	18	Surface	Uranium-235	pCi/g	1.25E-01	3.42E-09		2.21E-12
204	18	Surface	Uranium-238	pCi/g	5.37E+00	1.47E-07		9.49E-11
204	23	Surface	Americium-241	pCi/g	3.71E+00	1.02E-07		6.56E-11
204	23	Surface	Beryllium	mg/kg	1.33E+00	3.64E-08	2.40E-08	2.35E-11
204	23	Surface	Cesium-137	pCi/g	1.17E+00	3.21E-08		2.07E-11
204	23	Surface	Chromium	mg/kg	1.75E+02	4.79E-06	2.25E-05	3.09E-09
204	23	Surface	Cobalt-60	pCi/g	1.23E-02	3.36E-10		2.17E-13
204	23	Surface	PCB, Total	mg/kg	7.90E+01	2.16E-06	2.85E-05	2.35E-06
204	23	Surface	Uranium	mg/kg	1.31E+04	3.58E-04	1.68E-03	2.31E-07
204	23	Surface	Uranium-234	pCi/g	4.45E+02	1.22E-05		7.87E-09
204	23	Surface	Uranium-235	pCi/g	5.70E+01	1.56E-06		1.01E-09
204	23	Surface	Uranium-238	pCi/g	4.39E+03	1.20E-04		7.75E-08
211	1	Surface	Chromium	mg/kg	4.48E+01	1.23E-06	5.76E-06	7.91E-10
211	1	Surface	Neptunium-237	pCi/g	1.46E-01	4.00E-09		2.58E-12
211	1	Surface	PCB, Total	mg/kg	3.60E-01	9.86E-09	1.30E-07	1.07E-08
211	1	Surface	Total PAH	mg/kg	1.04E-01	2.84E-09	3.48E-08	1.36E-10
211	1	Surface	Uranium	mg/kg	2.19E+01	5.99E-07	2.81E-06	3.86E-10
211	1	Surface	Uranium-235	pCi/g	2.12E-01	5.81E-09		3.75E-12
211	1	Surface	Uranium-238	pCi/g	5.84E+00	1.60E-07		1.03E-10
212	1	Surface	Arsenic	mg/kg	1.44E+01	3.95E-07	1.11E-06	2.55E-10
212	1	Surface	Beryllium	mg/kg	8.10E-01	2.22E-08	1.46E-08	1.43E-11
212	1	Surface	Cesium-137	pCi/g	6.01E-01	1.65E-08		1.06E-11
212	1	Surface	Chromium	mg/kg	3.58E+01	9.81E-07	4.61E-06	6.33E-10
212	1	Surface	Cobalt-60	pCi/g	8.76E-03	2.40E-10		1.55E-13
212	1	Surface	Iron	mg/kg	4.14E+04	1.13E-03	5.33E-03	7.32E-07
212	1	Surface	Neptunium-237	pCi/g	4.00E+00	1.10E-07		7.07E-11
212	1	Surface	Nickel	mg/kg	8.69E+01	2.38E-06	8.95E-06	1.54E-09
212	1	Surface	PCB, Total	mg/kg	1.80E-01	4.93E-09	6.49E-08	5.36E-09
212	1	Surface	Plutonium-239/240	pCi/g	6.71E+00	1.84E-07		1.19E-10
212	1	Surface	Thorium-230	pCi/g	2.60E+02	7.12E-06		4.60E-09
212	1	Surface	Uranium	mg/kg	2.30E+01	6.30E-07	2.96E-06	4.07E-10
212	1	Surface	Uranium-235	pCi/g	2.09E-01	5.73E-09		3.69E-12
212	1	Surface	Uranium-238	pCi/g	3.17E+00	8.68E-08		5.60E-11
213	1	Surface	Antimony	mg/kg	8.50E-01	2.33E-08	1.09E-07	1.50E-11
213	1	Surface	Chromium	mg/kg	4.78E+01	1.31E-06	6.16E-06	8.45E-10
213	1	Surface	Nickel	mg/kg	6.67E+01	1.83E-06	6.87E-06	1.18E-09
213	1	Surface	PCB, Total	mg/kg	7.30E-02	2.00E-09	2.63E-08	2.18E-09
213	1	Surface	Silver	mg/kg	1.32E+01	3.61E-07	1.36E-06	2.33E-10
213	1	Surface	Total PAH	mg/kg	1.72E-01	4.71E-09	5.75E-08	2.25E-10
213	1	Surface	Uranium-238	pCi/g	2.33E+00	6.38E-08		4.12E-11
213	2	Surface	Chromium	mg/kg	4.48E+01	1.23E-06	5.77E-06	7.92E-10
213	2	Surface	Nickel	mg/kg	9.10E+01	2.49E-06	9.37E-06	1.61E-09
213	2	Surface	Silver	mg/kg	1.13E+01	3.08E-07	1.16E-06	1.99E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
214	1	Surface	Antimony	mg/kg	5.70E-01	1.56E-08	7.34E-08	1.01E-11
215	1	Surface	Antimony	mg/kg	6.80E-01	1.86E-08	8.76E-08	1.20E-11
215	1	Surface	Chromium	mg/kg	5.73E+01	1.57E-06	7.38E-06	1.01E-09
215	1	Surface	Iron	mg/kg	3.87E+04	1.06E-03	4.98E-03	6.84E-07
215	1	Surface	Nickel	mg/kg	7.32E+01	2.00E-06	7.54E-06	1.29E-09
215	1	Surface	Total PAH	mg/kg	8.09E-02	2.22E-09	2.71E-08	1.06E-10
216	1	Surface	Chromium	mg/kg	2.38E+01	6.52E-07	3.06E-06	4.21E-10
216	1	Surface	Total PAH	mg/kg	1.49E-01	4.09E-09	5.00E-08	1.95E-10
216	1	Surface	Uranium-238	pCi/g	1.33E+00	3.64E-08		2.35E-11
217	1	Surface	Chromium	mg/kg	8.58E+01	2.35E-06	1.10E-05	1.52E-09
217	1	Surface	Cobalt	mg/kg	1.96E+01	5.36E-07	2.52E-06	3.46E-10
217	1	Surface	Manganese	mg/kg	7.70E+02	2.11E-05	7.93E-05	1.36E-08
217	1	Surface	Nickel	mg/kg	8.54E+01	2.34E-06	8.80E-06	1.51E-09
217	1	Surface	Silver	mg/kg	1.35E+01	3.68E-07	1.39E-06	2.38E-10
217	1	Surface	Uranium-238	pCi/g	1.15E+00	3.16E-08		2.04E-11
217	2	Surface	Antimony	mg/kg	1.70E+00	4.66E-08	2.19E-07	3.00E-11
217	2	Surface	Arsenic	mg/kg	1.12E+01	3.06E-07	8.62E-07	1.97E-10
217	2	Surface	Chromium	mg/kg	1.02E+02	2.78E-06	1.31E-05	1.80E-09
217	2	Surface	Cobalt	mg/kg	1.74E+01	4.77E-07	2.24E-06	3.08E-10
217	2	Surface	Iron	mg/kg	3.09E+04	8.47E-04	3.98E-03	5.47E-07
217	2	Surface	Manganese	mg/kg	8.44E+02	2.31E-05	8.69E-05	1.49E-08
217	2	Surface	Mercury	mg/kg	8.59E+00	2.35E-07	1.11E-06	4.53E-06
217	2	Surface	Nickel	mg/kg	9.74E+01	2.67E-06	1.00E-05	1.72E-09
217	2	Surface	Silver	mg/kg	1.61E+01	4.41E-07	1.66E-06	2.84E-10
217	2	Surface	Total PAH	mg/kg	5.05E-01	1.38E-08	1.69E-07	6.60E-10
219	1	Surface	Neptunium-237	pCi/g	3.31E-01	9.07E-09		5.85E-12
219	1	Surface	Nickel	mg/kg	6.71E+01	1.84E-06	6.92E-06	1.19E-09
219	1	Surface	Total PAH	mg/kg	7.50E-02	2.06E-09	2.51E-08	9.81E-11
219	1	Surface	Uranium-235	pCi/g	1.92E-01	5.26E-09		3.39E-12
219	1	Surface	Uranium-238	pCi/g	4.40E+00	1.21E-07		7.78E-11
221	1	Surface	Barium	mg/kg	2.21E+02	6.05E-06	2.85E-05	3.91E-09
221	1	Surface	Chromium	mg/kg	7.01E+01	1.92E-06	9.03E-06	1.24E-09
221	1	Surface	Iron	mg/kg	1.90E+04	5.20E-04	2.44E-03	3.35E-07
221	1	Surface	Nickel	mg/kg	7.93E+01	2.17E-06	8.16E-06	1.40E-09
221	1	Surface	PCB, Total	mg/kg	5.00E-01	1.37E-08	1.80E-07	1.49E-08
221	1	Surface	Total PAH	mg/kg	1.02E+00	2.80E-08	3.42E-07	1.34E-09
221	1	Surface	Uranium	mg/kg	1.64E+01	4.48E-07	2.11E-06	2.89E-10
221	1	Surface	Uranium-238	pCi/g	1.93E+00	5.29E-08		3.41E-11
222	1	Surface	Chromium	mg/kg	4.73E+01	1.30E-06	6.09E-06	8.36E-10
222	1	Surface	Nickel	mg/kg	9.19E+01	2.52E-06	9.47E-06	1.62E-09
222	1	Surface	PCB, Total	mg/kg	1.40E+00	3.84E-08	5.05E-07	4.17E-08
222	1	Surface	Total PAH	mg/kg	1.77E-01	4.85E-09	5.93E-08	2.32E-10
222	1	Surface	Uranium	mg/kg	2.80E+01	7.67E-07	3.60E-06	4.95E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
222	1	Surface	Uranium-234	pCi/g	1.04E+01	2.85E-07		1.84E-10
222	1	Surface	Uranium-235	pCi/g	7.10E-01	1.95E-08		1.25E-11
222	1	Surface	Uranium-238	pCi/g	1.96E+01	5.37E-07		3.46E-10
224	1	Surface	Chromium	mg/kg	4.49E+01	1.23E-06	5.78E-06	7.94E-10
224	1	Surface	PCB, Total	mg/kg	4.75E+02	1.30E-05	1.71E-04	1.42E-05
224	1	Surface	Total PAH	mg/kg	4.53E+01	1.24E-06	1.52E-05	5.92E-08
224	1	Surface	Uranium	mg/kg	4.15E+01	1.14E-06	5.34E-06	7.34E-10
224	1	Surface	Uranium-235	pCi/g	2.50E-01	6.85E-09		4.42E-12
224	1	Surface	Uranium-238	pCi/g	2.64E+01	7.23E-07		4.67E-10
225	1	Surface	Chromium	mg/kg	2.55E+01	6.99E-07	3.28E-06	4.51E-10
225	1	Surface	Total PAH	mg/kg	7.79E-02	2.13E-09	2.61E-08	1.02E-10
225	1	Surface	Uranium-238	pCi/g	2.04E+00	5.59E-08		3.61E-11
226	1	Surface	Americium-241	pCi/g	1.62E+00	4.45E-08		2.87E-11
226	1	Surface	Antimony	mg/kg	6.60E-01	1.81E-08	8.50E-08	1.17E-11
226	1	Surface	Cesium-137	pCi/g	2.65E+00	7.26E-08		4.68E-11
226	1	Surface	Chromium	mg/kg	4.25E+01	1.17E-06	5.48E-06	7.52E-10
226	1	Surface	Cobalt-60	pCi/g	3.14E-03	8.60E-11		5.55E-14
226	1	Surface	Manganese	mg/kg	6.30E+02	1.73E-05	6.49E-05	1.11E-08
226	1	Surface	Mercury	mg/kg	9.74E+00	2.67E-07	1.25E-06	5.13E-06
226	1	Surface	Neptunium-237	pCi/g	1.60E+02	4.39E-06		2.83E-09
226	1	Surface	Nickel	mg/kg	2.10E+02	5.74E-06	2.16E-05	3.70E-09
226	1	Surface	PCB, Total	mg/kg	1.49E+00	4.08E-08	5.37E-07	4.44E-08
226	1	Surface	Plutonium-238	pCi/g	2.13E+00	5.84E-08		3.77E-11
226	1	Surface	Plutonium-239/240	pCi/g	6.52E+00	1.79E-07		1.15E-10
226	1	Surface	Technetium-99	pCi/g	4.96E+01	1.36E-06		8.77E-10
226	1	Surface	Thorium-230	pCi/g	4.77E+01	1.31E-06		8.43E-10
226	1	Surface	Total PAH	mg/kg	9.19E-02	2.52E-09	3.08E-08	1.20E-10
226	1	Surface	Uranium	mg/kg	4.01E+02	1.10E-05	5.16E-05	7.09E-09
226	1	Surface	Uranium-234	pCi/g	2.29E+01	6.28E-07		4.05E-10
226	1	Surface	Uranium-235	pCi/g	1.10E+00	3.02E-08		1.95E-11
226	1	Surface	Uranium-238	pCi/g	2.40E+01	6.58E-07		4.24E-10
227	1	Surface	Beryllium	mg/kg	5.52E-01	1.51E-08	9.95E-09	9.76E-12
227	1	Surface	Cesium-137	pCi/g	1.90E-01	5.21E-09		3.36E-12
227	1	Surface	Chromium	mg/kg	4.71E+01	1.29E-06	6.07E-06	8.33E-10
227	1	Surface	Cobalt-60	pCi/g	1.53E-02	4.19E-10		2.70E-13
227	1	Surface	Neptunium-237	pCi/g	9.05E-01	2.48E-08		1.60E-11
227	1	Surface	Nickel	mg/kg	2.03E+02	5.56E-06	2.09E-05	3.59E-09
227	1	Surface	PCB, Total	mg/kg	4.14E+00	1.14E-07	1.49E-06	1.23E-07
227	1	Surface	Technetium-99	pCi/g	4.77E+01	1.31E-06		8.43E-10
227	1	Surface	Total PAH	mg/kg	3.38E-01	9.26E-09	1.13E-07	4.42E-10
227	1	Surface	Uranium	mg/kg	1.02E+02	2.78E-06	1.31E-05	1.80E-09
227	1	Surface	Uranium-234	pCi/g	1.54E+01	4.23E-07		2.73E-10
227	1	Surface	Uranium-235	pCi/g	1.49E+00	4.08E-08		2.63E-11

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
227	1	Surface	Uranium-238	pCi/g	4.63E+01	1.27E-06		8.18E-10
227	2	Surface	Beryllium	mg/kg	5.32E-01	1.46E-08	9.59E-09	9.40E-12
227	2	Surface	Chromium	mg/kg	5.63E+01	1.54E-06	7.25E-06	9.95E-10
227	2	Surface	Cobalt	mg/kg	8.99E+00	2.46E-07	1.16E-06	1.59E-10
227	2	Surface	Cobalt-60	pCi/g	1.37E-02	3.75E-10		2.42E-13
227	2	Surface	Mercury	mg/kg	8.41E+00	2.30E-07	1.08E-06	4.43E-06
227	2	Surface	Nickel	mg/kg	1.25E+02	3.42E-06	1.29E-05	2.21E-09
227	2	Surface	PCB, Total	mg/kg	5.82E+00	1.59E-07	2.10E-06	1.73E-07
227	2	Surface	Total PAH	mg/kg	1.16E-01	3.17E-09	3.87E-08	1.51E-10
227	2	Surface	Uranium	mg/kg	1.51E+01	4.12E-07	1.94E-06	2.66E-10
227	2	Surface	Uranium-238	pCi/g	1.57E+00	4.31E-08		2.78E-11
228	1	Surface	Antimony	mg/kg	6.30E-01	1.73E-08	8.11E-08	1.11E-11
228	1	Surface	Cadmium	mg/kg	3.90E+00	1.07E-07	1.00E-08	6.89E-11
228	1	Surface	Chromium	mg/kg	1.89E+02	5.18E-06	2.43E-05	3.34E-09
228	1	Surface	Mercury	mg/kg	9.37E+00	2.57E-07	1.21E-06	4.94E-06
228	1	Surface	Neptunium-237	pCi/g	8.00E-01	2.19E-08		1.41E-11
228	1	Surface	Nickel	mg/kg	7.92E+01	2.17E-06	8.15E-06	1.40E-09
228	1	Surface	Silver	mg/kg	1.16E+01	3.19E-07	1.20E-06	2.06E-10
228	1	Surface	Total PAH	mg/kg	6.69E-02	1.83E-09	2.24E-08	8.74E-11
228	1	Surface	Uranium	mg/kg	1.51E+01	4.15E-07	1.95E-06	2.67E-10
228	1	Surface	Uranium-235	pCi/g	1.78E-01	4.88E-09		3.15E-12
228	1	Surface	Uranium-238	pCi/g	3.77E+00	1.03E-07		6.66E-11
229	1	Surface	Nickel	mg/kg	9.14E+01	2.50E-06	9.41E-06	1.62E-09
229	1	Surface	Total PAH	mg/kg	1.57E-01	4.30E-09	5.25E-08	2.05E-10
229	1	Surface	Uranium	mg/kg	1.56E+02	4.27E-06	2.01E-05	2.75E-09
229	1	Surface	Uranium-238	pCi/g	2.86E+00	7.84E-08		5.06E-11
229	2	Surface	Arsenic	mg/kg	2.12E+01	5.81E-07	1.64E-06	3.75E-10
229	2	Surface	Beryllium	mg/kg	7.90E-01	2.16E-08	1.42E-08	1.40E-11
229	2	Surface	Chromium	mg/kg	2.91E+01	7.98E-07	3.75E-06	5.15E-10
229	2	Surface	Neptunium-237	pCi/g	2.87E-01	7.86E-09		5.07E-12
229	2	Surface	Nickel	mg/kg	9.93E+01	2.72E-06	1.02E-05	1.75E-09
229	2	Surface	Total PAH	mg/kg	1.69E+00	4.64E-08	5.67E-07	2.22E-09
229	2	Surface	Uranium	mg/kg	7.45E+01	2.04E-06	9.59E-06	1.32E-09
229	2	Surface	Uranium-234	pCi/g	1.22E+01	3.34E-07		2.16E-10
229	2	Surface	Uranium-235	pCi/g	8.40E-01	2.30E-08		1.48E-11
229	2	Surface	Uranium-238	pCi/g	2.49E+01	6.82E-07		4.40E-10
483	1	Surface	Nickel	mg/kg	1.17E+02	3.19E-06	1.20E-05	2.06E-09
483	1	Surface	Silver	mg/kg	1.12E+01	3.07E-07	1.15E-06	1.98E-10
483	1	Surface	Total PAH	mg/kg	2.39E-02	6.55E-10	8.00E-09	3.12E-11
486	1	Surface	Cesium-137	pCi/g				
487	1	Surface	Cesium-137	pCi/g				
488	1	Surface	Cesium-137	pCi/g	5.20E-01	1.42E-08		9.19E-12
488	1	Surface	PCB, Total	mg/kg	1.03E+01	2.82E-07	3.71E-06	3.07E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
488	1	Surface	Total PAH	mg/kg	2.50E-01	6.84E-09	8.36E-08	3.26E-10
488	1	Surface	Uranium	mg/kg	1.48E+01	4.05E-07	1.91E-06	2.62E-10
488	1	Surface	Uranium-235	pCi/g	1.49E-01	4.08E-09		2.63E-12
488	1	Surface	Uranium-238	pCi/g	4.54E+00	1.24E-07		8.02E-11
489	1	Surface	Chromium	mg/kg	4.16E+01	1.14E-06	5.36E-06	7.36E-10
489	1	Surface	Nickel	mg/kg	7.88E+01	2.16E-06	8.12E-06	1.39E-09
489	1	Surface	Total PAH	mg/kg	8.22E-02	2.25E-09	2.75E-08	1.07E-10
489	1	Surface	Uranium-238	pCi/g	1.47E+00	4.03E-08		2.60E-11
492	1	Surface	Arsenic	mg/kg	1.47E+01	4.03E-07	1.14E-06	2.60E-10
492	1	Surface	Beryllium	mg/kg	1.04E+01	2.85E-07	1.87E-07	1.84E-10
492	1	Surface	Cadmium	mg/kg	3.14E+00	8.60E-08	8.09E-09	5.55E-11
492	1	Surface	Chromium	mg/kg	1.04E+03	2.85E-05	1.34E-04	1.84E-08
492	1	Surface	Cobalt-60	pCi/g	9.63E-03	2.64E-10		1.70E-13
492	1	Surface	Neptunium-237	pCi/g	2.09E-01	5.73E-09		3.69E-12
492	1	Surface	PCB, Total	mg/kg	4.41E+01	1.21E-06	1.59E-05	1.31E-06
492	1	Surface	Uranium	mg/kg	1.77E+03	4.85E-05	2.28E-04	3.13E-08
492	1	Surface	Uranium-234	pCi/g	5.39E+01	1.48E-06		9.53E-10
492	1	Surface	Uranium-235	pCi/g	5.72E+00	1.57E-07		1.01E-10
492	1	Surface	Uranium-238	pCi/g	3.83E+02	1.05E-05		6.77E-09
492	1	Surface	Vanadium	mg/kg	4.32E+01	1.18E-06	2.89E-06	7.64E-10
493	1	Surface	Aluminum	mg/kg	1.44E+04	3.95E-04	1.85E-03	2.55E-07
493	1	Surface	Barium	mg/kg	4.04E+02	1.11E-05	5.20E-05	7.14E-09
493	1	Surface	Beryllium	mg/kg	9.91E-01	2.72E-08	1.79E-08	1.75E-11
493	1	Surface	Chromium	mg/kg	6.61E+01	1.81E-06	8.51E-06	1.17E-09
493	1	Surface	Cobalt	mg/kg	3.79E+01	1.04E-06	4.88E-06	6.70E-10
493	1	Surface	Cobalt-60	pCi/g	1.36E-02	3.73E-10		2.40E-13
493	1	Surface	Manganese	mg/kg	3.55E+03	9.73E-05	3.66E-04	6.27E-08
493	1	Surface	Mercury	mg/kg	2.60E-01	7.12E-09	3.35E-08	1.37E-07
493	1	Surface	Neptunium-237	pCi/g	1.22E-01	3.34E-09		2.16E-12
493	1	Surface	Nickel	mg/kg	2.13E+02	5.84E-06	2.19E-05	3.76E-09
493	1	Surface	PCB, Total	mg/kg	2.60E-01	7.12E-09	9.37E-08	7.75E-09
493	1	Surface	Total PAH	mg/kg	5.00E-01	1.37E-08	1.67E-07	6.53E-10
493	1	Surface	Uranium-235	pCi/g	1.65E-01	4.52E-09		2.92E-12
493	1	Surface	Uranium-238	pCi/g	5.50E+00	1.51E-07		9.72E-11
493	1	Surface	Vanadium	mg/kg	4.05E+01	1.11E-06	2.71E-06	7.16E-10
517	1	Surface	Beryllium	mg/kg	7.39E-01	2.02E-08	1.33E-08	1.31E-11
517	1	Surface	Chromium	mg/kg	4.91E+01	1.35E-06	6.32E-06	8.68E-10
517	1	Surface	Cobalt-60	pCi/g	6.39E-03	1.75E-10		1.13E-13
517	1	Surface	Neptunium-237	pCi/g	1.07E+00	2.93E-08		1.89E-11
517	1	Surface	Nickel	mg/kg	1.72E+02	4.71E-06	1.77E-05	3.04E-09
517	1	Surface	PCB, Total	mg/kg	5.00E-01	1.37E-08	1.80E-07	1.49E-08
517	1	Surface	Uranium-235	pCi/g	1.60E-01	4.38E-09		2.83E-12
517	1	Surface	Uranium-238	pCi/g	3.89E+00	1.07E-07		6.88E-11

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
518	1	Surface	Carbazole	mg/kg	1.17E+01	3.21E-07	3.02E-06	9.61E-08
518	1	Surface	Cobalt	mg/kg	6.80E+00	1.86E-07	8.76E-07	1.20E-10
518	1	Surface	Nickel	mg/kg	1.29E+01	3.52E-07	1.32E-06	2.27E-10
518	1	Surface	PCB, Total	mg/kg	6.30E-01	1.73E-08	2.27E-07	1.88E-08
518	1	Surface	Pyrene	mg/kg	3.94E+01	1.08E-06	1.32E-05	4.58E-07
518	1	Surface	Total PAH	mg/kg	4.64E+00	1.27E-07	1.55E-06	6.06E-09
518	1	Surface	Uranium	mg/kg	2.17E+02	5.95E-06	2.79E-05	3.84E-09
518	1	Surface	Uranium-235	pCi/g	6.74E-02	1.85E-09		1.19E-12
518	1	Surface	Uranium-238	pCi/g	1.51E+00	4.15E-08		2.68E-11
520	1	Surface	Cesium-137	pCi/g	9.62E-01	2.64E-08		1.70E-11
520	1	Surface	Chromium	mg/kg	3.17E+01	8.69E-07	4.09E-06	5.61E-10
520	1	Surface	Iron	mg/kg	1.56E+04	4.27E-04	2.01E-03	2.76E-07
520	1	Surface	Mercury	mg/kg	1.07E+01	2.93E-07	1.38E-06	5.63E-06
520	1	Surface	Neptunium-237	pCi/g	6.56E-01	1.80E-08		1.16E-11
520	1	Surface	Nickel	mg/kg	2.60E+02	7.13E-06	2.68E-05	4.60E-09
520	1	Surface	Silver	mg/kg	1.30E+01	3.55E-07	1.34E-06	2.29E-10
520	1	Surface	Thorium-230	pCi/g	1.13E+01	3.11E-07		2.00E-10
520	1	Surface	Total PAH	mg/kg	3.18E-02	8.72E-10	1.07E-08	4.16E-11
520	1	Surface	Uranium	mg/kg	2.29E+01	6.28E-07	2.95E-06	4.05E-10
520	1	Surface	Uranium-235	pCi/g	1.26E-01	3.45E-09		2.23E-12
520	1	Surface	Uranium-238	pCi/g	3.93E+00	1.08E-07		6.94E-11
520	2	Surface	Beryllium	mg/kg	5.79E-01	1.59E-08	1.04E-08	1.02E-11
520	2	Surface	Chromium	mg/kg	6.67E+01	1.83E-06	8.58E-06	1.18E-09
520	2	Surface	Manganese	mg/kg	5.89E+02	1.61E-05	6.07E-05	1.04E-08
520	2	Surface	Mercury	mg/kg	1.19E+01	3.25E-07	1.53E-06	6.26E-06
520	2	Surface	Neptunium-237	pCi/g	7.48E-02	2.05E-09		1.32E-12
520	2	Surface	Nickel	mg/kg	3.11E+02	8.51E-06	3.20E-05	5.49E-09
520	2	Surface	Total PAH	mg/kg	3.17E-01	8.68E-09	1.06E-07	4.14E-10
520	2	Surface	Uranium	mg/kg	3.96E+01	1.08E-06	5.09E-06	6.99E-10
520	2	Surface	Uranium-238	pCi/g	1.78E+00	4.87E-08		3.14E-11
520	3	Surface	Chromium	mg/kg	3.97E+01	1.09E-06	5.11E-06	7.01E-10
520	3	Surface	Copper	mg/kg	1.19E+02	3.26E-06	1.53E-05	2.10E-09
520	3	Surface	Nickel	mg/kg	2.65E+02	7.25E-06	2.73E-05	4.68E-09
520	3	Surface	Silver	mg/kg	1.27E+01	3.47E-07	1.31E-06	2.24E-10
520	3	Surface	Total PAH	mg/kg	1.18E-01	3.24E-09	3.95E-08	1.54E-10
520	3	Surface	Uranium	mg/kg	1.92E+01	5.27E-07	2.48E-06	3.40E-10
520	3	Surface	Uranium-238	pCi/g	1.57E+00	4.30E-08		2.78E-11
520	4	Surface	Chromium	mg/kg	3.82E+01	1.05E-06	4.92E-06	6.76E-10
520	4	Surface	Copper	mg/kg	1.11E+02	3.03E-06	1.42E-05	1.95E-09
520	4	Surface	Mercury	mg/kg	9.69E+00	2.65E-07	1.25E-06	5.11E-06
520	4	Surface	Neptunium-237	pCi/g	7.40E-01	2.03E-08		1.31E-11
520	4	Surface	Nickel	mg/kg	2.82E+02	7.72E-06	2.90E-05	4.98E-09
520	4	Surface	Silver	mg/kg	1.04E+01	2.86E-07	1.08E-06	1.85E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
520	4	Surface	Total PAH	mg/kg	5.52E-01	1.51E-08	1.85E-07	7.22E-10
520	4	Surface	Uranium	mg/kg	2.40E+01	6.58E-07	3.09E-06	4.25E-10
520	4	Surface	Uranium-235	pCi/g	2.42E-01	6.63E-09		4.28E-12
520	4	Surface	Uranium-238	pCi/g	6.26E+00	1.72E-07		1.11E-10
520	5	Surface	Antimony	mg/kg	9.60E-01	2.63E-08	1.24E-07	1.70E-11
520	5	Surface	Chromium	mg/kg	3.68E+01	1.01E-06	4.74E-06	6.51E-10
520	5	Surface	Neptunium-237	pCi/g	1.55E-01	4.25E-09		2.74E-12
520	5	Surface	Nickel	mg/kg	1.47E+02	4.02E-06	1.51E-05	2.60E-09
520	5	Surface	Total PAH	mg/kg	3.87E-01	1.06E-08	1.30E-07	5.06E-10
520	5	Surface	Uranium-238	pCi/g	1.45E+00	3.97E-08		2.56E-11
531	1	Surface	Antimony	mg/kg	1.00E+00	2.74E-08	1.29E-07	1.77E-11
531	1	Surface	Arsenic	mg/kg	4.68E+01	1.28E-06	3.62E-06	8.28E-10
531	1	Surface	Cadmium	mg/kg	3.10E+00	8.49E-08	7.98E-09	5.48E-11
531	1	Surface	Chromium	mg/kg	5.05E+01	1.38E-06	6.50E-06	8.92E-10
531	1	Surface	Iron	mg/kg	5.68E+04	1.56E-03	7.32E-03	1.00E-06
531	1	Surface	Nickel	mg/kg	1.62E+02	4.44E-06	1.67E-05	2.87E-09
531	1	Surface	Total PAH	mg/kg	5.34E-02	1.46E-09	1.79E-08	6.98E-11
531	1	Surface	Uranium	mg/kg	2.41E+01	6.59E-07	3.10E-06	4.25E-10
531	1	Surface	Uranium-235	pCi/g	1.38E-01	3.78E-09		2.44E-12
531	1	Surface	Uranium-238	pCi/g	3.48E+00	9.53E-08		6.15E-11
531	1	Surface	Zinc	mg/kg	2.45E+03	6.72E-05	3.16E-04	4.33E-08
541	1	Surface	Aluminum	mg/kg	1.43E+04	3.91E-04	1.84E-03	2.53E-07
541	1	Surface	Americium-241	pCi/g	7.53E+00	2.06E-07		1.33E-10
541	1	Surface	Barium	mg/kg	1.28E+02	3.51E-06	1.65E-05	2.26E-09
541	1	Surface	Beryllium	mg/kg	6.98E-01	1.91E-08	1.26E-08	1.23E-11
541	1	Surface	Cadmium	mg/kg	1.68E+00	4.61E-08	4.33E-09	2.97E-11
541	1	Surface	Cesium-137	pCi/g	9.58E-01	2.62E-08		1.69E-11
541	1	Surface	Chromium	mg/kg	8.24E+02	2.26E-05	1.06E-04	1.46E-08
541	1	Surface	Cobalt-60	pCi/g	1.01E-02	2.77E-10		1.79E-13
541	1	Surface	Iron	mg/kg	1.60E+04	4.37E-04	2.06E-03	2.82E-07
541	1	Surface	Mercury	mg/kg	9.81E-02	2.69E-09	1.26E-08	5.17E-08
541	1	Surface	Naphthalene	mg/kg	6.55E-01	1.79E-08	4.22E-07	3.86E-07
541	1	Surface	Neptunium-237	pCi/g	5.52E-02	1.51E-09		9.76E-13
541	1	Surface	Nickel	mg/kg	1.52E+01	4.18E-07	1.57E-06	2.69E-10
541	1	Surface	PCB, Total	mg/kg	6.06E+01	1.66E-06	2.19E-05	1.81E-06
541	1	Surface	Total PAH	mg/kg	2.33E+00	6.38E-08	7.80E-07	3.04E-09
541	1	Surface	Uranium	mg/kg	6.38E+03	1.75E-04	8.22E-04	1.13E-07
541	1	Surface	Uranium-234	pCi/g	1.43E+02	3.92E-06		2.53E-09
541	1	Surface	Uranium-235	pCi/g	1.76E+01	4.81E-07		3.10E-10
541	1	Surface	Uranium-238	pCi/g	1.00E+03	2.74E-05		1.77E-08
541	1	Surface	Vanadium	mg/kg	3.04E+01	8.34E-07	2.04E-06	5.38E-10
561	1	Surface	Antimony	mg/kg	9.36E-01	2.56E-08	1.21E-07	1.65E-11
561	1	Surface	Arsenic	mg/kg	1.66E+01	4.53E-07	1.28E-06	2.93E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
561	1	Surface	Barium	mg/kg	1.40E+02	3.84E-06	1.81E-05	2.48E-09
561	1	Surface	Beryllium	mg/kg	6.85E-01	1.88E-08	1.23E-08	1.21E-11
561	1	Surface	Chromium	mg/kg	8.58E+01	2.35E-06	1.10E-05	1.52E-09
561	1	Surface	Cobalt	mg/kg	1.07E+01	2.93E-07	1.38E-06	1.89E-10
561	1	Surface	Cobalt-60	pCi/g	7.06E-02	1.93E-09		1.25E-12
561	1	Surface	Iron	mg/kg	2.05E+04	5.61E-04	2.64E-03	3.62E-07
561	1	Surface	Manganese	mg/kg	1.61E+03	4.41E-05	1.66E-04	2.84E-08
561	1	Surface	Neptunium-237	pCi/g	2.71E-02	7.42E-10		4.79E-13
561	1	Surface	PCB, Total	mg/kg	1.04E+00	2.85E-08	3.76E-07	3.10E-08
561	1	Surface	Thallium	mg/kg	3.33E-01	9.12E-09	4.29E-08	5.89E-12
561	1	Surface	Total PAH	mg/kg	1.65E-01	4.52E-09	5.53E-08	2.16E-10
561	1	Surface	Uranium	mg/kg	2.65E+02	7.25E-06	3.41E-05	4.68E-09
561	1	Surface	Uranium-234	pCi/g	7.84E+00	2.15E-07		1.39E-10
561	1	Surface	Uranium-235	pCi/g	1.37E+00	3.74E-08		2.41E-11
561	1	Surface	Uranium-238	pCi/g	1.07E+02	2.92E-06		1.88E-09
561	1	Surface	Vanadium	mg/kg	3.76E+01	1.03E-06	2.52E-06	6.65E-10
561	2	Surface	Antimony	mg/kg	5.33E+00	1.46E-07	6.87E-07	9.43E-11
561	2	Surface	Arsenic	mg/kg	1.30E+01	3.56E-07	1.01E-06	2.30E-10
561	2	Surface	Beryllium	mg/kg	6.34E-01	1.74E-08	1.14E-08	1.12E-11
561	2	Surface	Cadmium	mg/kg	4.13E-01	1.13E-08	1.06E-09	7.30E-12
561	2	Surface	Cesium-137	pCi/g	4.09E-01	1.12E-08		7.23E-12
561	2	Surface	Chromium	mg/kg	2.88E+02	7.90E-06	3.71E-05	5.09E-09
561	2	Surface	Cobalt	mg/kg	1.14E+01	3.12E-07	1.47E-06	2.02E-10
561	2	Surface	Cobalt-60	pCi/g	2.76E-02	7.56E-10		4.88E-13
561	2	Surface	Manganese	mg/kg	1.12E+03	3.05E-05	1.15E-04	1.97E-08
561	2	Surface	Neptunium-237	pCi/g	4.71E-02	1.29E-09		8.33E-13
561	2	Surface	PCB, Total	mg/kg	1.64E+01	4.48E-07	5.90E-06	4.87E-07
561	2	Surface	Thallium	mg/kg	4.09E-01	1.12E-08	5.27E-08	7.23E-12
561	2	Surface	Total PAH	mg/kg	4.43E-01	1.21E-08	1.48E-07	5.79E-10
561	2	Surface	Uranium	mg/kg	1.38E+03	3.79E-05	1.78E-04	2.44E-08
561	2	Surface	Uranium-234	pCi/g	4.06E+01	1.11E-06		7.18E-10
561	2	Surface	Uranium-235	pCi/g	7.09E+00	1.94E-07		1.25E-10
561	2	Surface	Uranium-238	pCi/g	4.00E+02	1.10E-05		7.08E-09
561	2	Surface	Vanadium	mg/kg	3.46E+01	9.47E-07	2.31E-06	6.11E-10
562	1	Surface	Uranium	mg/kg	8.73E+01	2.39E-06	1.12E-05	1.54E-09
562	1	Surface	Uranium-238	pCi/g	2.73E+00	7.48E-08		4.83E-11
562	2	Surface	PCB, Total	mg/kg	1.58E+00	4.33E-08	5.70E-07	4.71E-08
562	2	Surface	Uranium-234	pCi/g	5.34E+01	1.46E-06		9.44E-10
562	2	Surface	Uranium-235	pCi/g	8.96E+00	2.45E-07		1.58E-10
562	2	Surface	Uranium-238	pCi/g	5.81E+02	1.59E-05		1.03E-08
562	3	Surface	Chromium	mg/kg	3.82E+01	1.05E-06	4.91E-06	6.75E-10
562	3	Surface	PCB, Total	mg/kg	2.40E-01	6.58E-09	8.65E-08	7.15E-09
562	3	Surface	Total PAH	mg/kg	2.20E-01	6.03E-09	7.37E-08	2.88E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.7. Noncancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
562	3	Surface	Uranium	mg/kg	5.89E+01	1.61E-06	7.58E-06	1.04E-09
562	3	Surface	Uranium-235	pCi/g	1.63E-01	4.47E-09		2.88E-12
562	3	Surface	Uranium-238	pCi/g	1.09E+01	2.99E-07		1.93E-10
562	4	Surface	Chromium	mg/kg	4.67E+01	1.28E-06	6.01E-06	8.25E-10
562	4	Surface	Uranium	mg/kg	2.10E+01	5.75E-07	2.70E-06	3.71E-10
562	4	Surface	Uranium-238	pCi/g	2.24E+00	6.14E-08		3.96E-11
562	5	Surface	Chromium	mg/kg	1.53E+02	4.19E-06	1.97E-05	2.71E-09
562	5	Surface	PCB, Total	mg/kg	9.50E-01	2.60E-08	3.43E-07	2.83E-08
562	5	Surface	Total PAH	mg/kg	7.05E-02	1.93E-09	2.36E-08	9.21E-11
562	5	Surface	Uranium	mg/kg	2.08E+02	5.70E-06	2.68E-05	3.68E-09
562	5	Surface	Uranium-234	pCi/g	8.57E+00	2.35E-07		1.51E-10
562	5	Surface	Uranium-235	pCi/g	5.68E-01	1.56E-08		1.00E-11
562	5	Surface	Uranium-235	pCi/g	9.50E-01	2.60E-08		1.68E-11
562	5	Surface	Uranium-238	pCi/g	6.24E+01	1.71E-06		1.10E-09
563	1	Surface	Cadmium	mg/kg	8.96E-01	2.45E-08	2.31E-09	1.58E-11
563	1	Surface	Chromium	mg/kg	2.85E+02	7.81E-06	3.67E-05	5.04E-09
563	1	Surface	PCB, Total	mg/kg	7.40E-01	2.03E-08	2.67E-07	2.21E-08
563	1	Surface	Uranium	mg/kg	1.51E+01	4.13E-07	1.94E-06	2.67E-10
563	1	Surface	Uranium-238	pCi/g	2.76E+00	7.56E-08		4.88E-11
563	2	Surface	Cesium-137	pCi/g	6.47E-01	1.77E-08		1.14E-11
563	2	Surface	Uranium-238	pCi/g	1.49E+00	4.08E-08		2.63E-11
564	1	Surface	Arsenic	mg/kg	4.30E+01	1.18E-06	3.32E-06	7.60E-10
564	1	Surface	Beryllium	mg/kg	2.12E+00	5.81E-08	3.82E-08	3.75E-11
564	1	Surface	Cadmium	mg/kg	1.96E+00	5.37E-08	5.05E-09	3.46E-11
564	1	Surface	Cesium-137	pCi/g	6.20E-01	1.70E-08		1.10E-11
564	1	Surface	Chromium	mg/kg	7.49E+01	2.05E-06	9.65E-06	1.32E-09
564	1	Surface	Iron	mg/kg	3.66E+04	1.00E-03	4.71E-03	6.47E-07
564	1	Surface	Mercury	mg/kg	2.30E-01	6.30E-09	2.96E-08	1.21E-07
564	1	Surface	Nickel	mg/kg	2.24E+01	6.14E-07	2.31E-06	3.96E-10
564	1	Surface	PCB, Total	mg/kg	1.93E+00	5.29E-08	6.96E-07	5.75E-08
564	1	Surface	Thallium	mg/kg	2.36E+00	6.47E-08	3.04E-07	4.17E-11
564	1	Surface	Thorium-230	pCi/g	5.01E+00	1.37E-07		8.86E-11
564	1	Surface	Uranium	mg/kg	5.83E+01	1.60E-06	7.51E-06	1.03E-09
564	1	Surface	Uranium-234	pCi/g	6.93E+00	1.90E-07		1.22E-10
564	1	Surface	Uranium-235	pCi/g	3.37E-01	9.23E-09		5.96E-12
564	1	Surface	Uranium-235	pCi/g	3.87E-01	1.06E-08		6.84E-12
564	1	Surface	Uranium-238	pCi/g	8.33E+00	2.28E-07		1.47E-10
564	1	Surface	Vanadium	mg/kg	8.06E+01	2.21E-06	5.40E-06	1.42E-09
567	3	Surface	Chromium	mg/kg	3.79E+01	1.04E-06	4.88E-06	6.70E-10
567	4	Surface	Aluminum	mg/kg	1.25E+04	3.43E-04	1.61E-03	2.21E-07
567	4	Surface	Chromium	mg/kg	1.63E+01	4.47E-07	2.10E-06	2.88E-10
567	4	Surface	Uranium-238	pCi/g	1.05E+00	2.87E-08		1.85E-11

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
1	1	Surface	Beryllium	mg/kg	3.89E+00	3.81E-08	2.51E-08	2.46E-11	
1	1	Surface	Cadmium	mg/kg	1.10E+00	1.08E-08	1.01E-09	6.94E-12	
1	1	Surface	Cesium-137	pCi/g	5.91E-01	1.03E+01		6.67E-03	1.51E-01
1	1	Surface	Chromium	mg/kg	1.28E+01	1.25E-07	5.90E-07	8.09E-11	
1	1	Surface	Neptunium-237	pCi/g	4.02E-01	7.04E+00		4.54E-03	1.03E-01
1	1	Surface	PCB, Total	mg/kg	1.76E-01	1.72E-09	2.27E-08	1.87E-09	
1	1	Surface	Plutonium-239/240	pCi/g	6.14E+00	1.07E+02		6.93E-02	1.57E+00
1	1	Surface	Thorium-230	pCi/g	4.40E+01	7.70E+02		4.97E-01	1.13E+01
1	1	Surface	Uranium-235	pCi/g	1.06E-01	1.86E+00		1.20E-03	2.71E-02
1	1	Surface	Uranium-238	pCi/g	1.97E+00	3.45E+01		2.23E-02	5.05E-01
1	2	Surface	Beryllium	mg/kg	8.23E+00	8.05E-08	5.30E-08	5.19E-11	
1	2	Surface	Cadmium	mg/kg	6.46E+00	6.32E-08	5.94E-09	4.08E-11	
1	2	Surface	Chromium	mg/kg	2.01E+02	1.97E-06	9.25E-06	1.27E-09	
1	2	Surface	Copper	mg/kg	1.81E+02	1.77E-06	8.32E-06	1.14E-09	
1	2	Surface	Mercury	mg/kg	5.94E+00	5.81E-08	2.73E-07	1.12E-06	
1	2	Surface	Nickel	mg/kg	5.75E+01	5.62E-07	2.11E-06	3.63E-10	
1	2	Surface	PCB, Total	mg/kg	3.22E+01	3.15E-07	4.15E-06	3.43E-07	
1	2	Surface	Silver	mg/kg	3.31E+01	3.24E-07	1.22E-06	2.09E-10	
1	2	Surface	Thallium	mg/kg	3.70E-01	3.62E-09	1.70E-08	2.34E-12	
1	2	Surface	Vanadium	mg/kg	3.49E+01	3.41E-07	8.34E-07	2.20E-10	
1	3	Surface	Chromium	mg/kg	1.45E+01	1.42E-07	6.65E-07	9.13E-11	
1	3	Surface	PCB, Total	mg/kg	2.17E-01	2.12E-09	2.79E-08	2.31E-09	
1	3	Surface	Uranium-238	pCi/g	1.73E+00	3.03E+01		1.95E-02	4.42E-01
1	4	Surface	Beryllium	mg/kg	7.25E-01	7.09E-09	4.67E-09	4.58E-12	
1	4	Surface	Chromium	mg/kg	9.30E+01	9.10E-07	4.28E-06	5.87E-10	
1	4	Surface	Cobalt-60	pCi/g	2.20E-02	3.85E-01		2.48E-04	5.63E-03
1	4	Surface	Nickel	mg/kg	4.69E+01	4.59E-07	1.72E-06	2.96E-10	
1	4	Surface	PCB, Total	mg/kg	1.30E-01	1.27E-09	1.67E-08	1.38E-09	
1	4	Surface	Thorium-230	pCi/g	5.03E+00	8.80E+01		5.68E-02	1.29E+00
1	5	Surface	Beryllium	mg/kg	8.30E+00	8.12E-08	5.34E-08	5.24E-11	
1	5	Surface	Cadmium	mg/kg	1.20E+00	1.17E-08	1.10E-09	7.58E-12	
1	5	Surface	Nickel	mg/kg	4.07E+01	3.98E-07	1.50E-06	2.57E-10	
1	5	Surface	PCB, Total	mg/kg	2.70E-01	2.64E-09	3.48E-08	2.87E-09	
1	5	Surface	Total PAH	mg/kg	9.83E-02	9.62E-10	1.18E-08	4.59E-11	
12	1	Surface	Aluminum	mg/kg	8.19E+03	8.02E-05	3.77E-04	5.17E-08	
12	1	Surface	Antimony	mg/kg	5.04E-01	4.93E-09	2.32E-08	3.18E-12	
12	1	Surface	Arsenic	mg/kg	1.34E+01	1.31E-07	3.69E-07	8.45E-11	
12	1	Surface	Barium	mg/kg	1.04E+02	1.01E-06	4.77E-06	6.55E-10	
12	1	Surface	Beryllium	mg/kg	6.72E+00	6.58E-08	4.33E-08	4.24E-11	
12	1	Surface	Cadmium	mg/kg	1.02E+00	9.98E-09	9.38E-10	6.44E-12	
12	1	Surface	Chromium	mg/kg	6.33E+01	6.19E-07	2.91E-06	4.00E-10	
12	1	Surface	Cobalt	mg/kg	9.16E+00	8.96E-08	4.21E-07	5.78E-11	
12	1	Surface	Iron	mg/kg	3.01E+04	2.94E-04	1.38E-03	1.90E-07	
12	1	Surface	Manganese	mg/kg	1.01E+03	9.92E-06	3.73E-05	6.40E-09	
12	1	Surface	Mercury	mg/kg	8.80E+00	8.61E-08	4.05E-07	1.66E-06	
12	1	Surface	Molybdenum	mg/kg	1.74E+01	1.70E-07	8.01E-07	1.10E-10	
12	1	Surface	Nickel	mg/kg	7.74E+01	7.58E-07	2.85E-06	4.89E-10	
12	1	Surface	PCB, Total	mg/kg	3.90E-01	3.82E-09	5.02E-08	4.15E-09	
12	1	Surface	Silver	mg/kg	1.10E+01	1.08E-07	4.05E-07	6.96E-11	
12	1	Surface	Thallium	mg/kg	1.03E+00	1.01E-08	4.74E-08	6.50E-12	
12	1	Surface	Total PAH	mg/kg	1.70E-01	1.66E-09	2.03E-08	7.94E-11	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
12	1	Surface	Uranium	mg/kg	3.76E+02	3.68E-06	1.73E-05	2.37E-09	
12	1	Surface	Uranium-234	pCi/g	1.50E+01	2.63E+02		1.70E-01	3.84E+00
12	1	Surface	Uranium-235	pCi/g	1.53E+00	2.67E+01		1.72E-02	3.90E-01
12	1	Surface	Uranium-238	pCi/g	6.68E+01	1.17E+03		7.55E-01	1.71E+01
12	1	Surface	Vanadium	mg/kg	2.80E+01	2.74E-07	6.70E-07	1.77E-10	
13	1	Surface	PCB, Total	mg/kg	7.00E-01	6.85E-09	9.01E-08	7.45E-09	
13	4	Surface	Uranium-238	pCi/g	1.32E+00	2.31E+01		1.49E-02	3.38E-01
13	5	Surface	Aluminum	mg/kg	1.13E+04	1.10E-04	5.18E-04	7.11E-08	
13	5	Surface	Antimony	mg/kg	8.20E-01	8.02E-09	3.77E-08	5.18E-12	
13	5	Surface	Cadmium	mg/kg	1.20E+00	1.17E-08	1.10E-09	7.58E-12	
13	5	Surface	Chromium	mg/kg	1.51E+01	1.48E-07	6.94E-07	9.53E-11	
13	5	Surface	Nickel	mg/kg	1.17E+02	1.14E-06	4.29E-06	7.35E-10	
13	5	Surface	PCB, Total	mg/kg	1.05E+00	1.03E-08	1.35E-07	1.12E-08	
13	5	Surface	Total PAH	mg/kg	6.65E-02	6.50E-10	7.95E-09	3.10E-11	
13	5	Surface	Uranium	mg/kg	1.19E+02	1.17E-06	5.48E-06	7.52E-10	
13	6	Surface	Uranium-238	pCi/g	1.32E+00	2.30E+01		1.49E-02	3.37E-01
13	9	Surface	Neptunium-237	pCi/g	8.90E-01	1.56E+01		1.00E-02	2.28E-01
13	9	Surface	Uranium	mg/kg	1.82E+01	1.78E-07	8.37E-07	1.15E-10	
13	9	Surface	Uranium-235	pCi/g	3.11E-01	5.44E+00		3.51E-03	7.95E-02
13	9	Surface	Uranium-238	pCi/g	6.08E+00	1.06E+02		6.86E-02	1.55E+00
13	11	Surface	Cobalt-60	pCi/g	1.30E-02	2.28E-01		1.47E-04	3.32E-03
14	1	Surface	Americium-241	pCi/g	1.27E+00	2.22E+01		1.43E-02	3.24E-01
14	1	Surface	Arsenic	mg/kg	1.10E+01	1.07E-07	3.03E-07	6.93E-11	
14	1	Surface	Chromium	mg/kg	6.36E+01	6.22E-07	2.92E-06	4.01E-10	
14	1	Surface	Iron	mg/kg	1.89E+04	1.85E-04	8.67E-04	1.19E-07	
14	1	Surface	Neptunium-237	pCi/g	2.14E-01	3.75E+00		2.42E-03	5.47E-02
14	1	Surface	Nickel	mg/kg	1.40E+02	1.37E-06	5.14E-06	8.82E-10	
14	1	Surface	PCB, Total	mg/kg	5.00E-01	4.89E-09	6.44E-08	5.32E-09	
14	1	Surface	Silver	mg/kg	1.67E+01	1.63E-07	6.14E-07	1.05E-10	
14	1	Surface	Technetium-99	pCi/g	4.06E+02	7.11E+03		4.58E+00	1.04E+02
14	1	Surface	Uranium	mg/kg	7.21E+01	7.06E-07	3.32E-06	4.55E-10	
14	1	Surface	Uranium-238	pCi/g	1.69E+00	2.96E+01		1.91E-02	4.32E-01
14	2	Surface	Antimony	mg/kg	3.70E+00	3.62E-08	1.70E-07	2.34E-11	
14	2	Surface	Arsenic	mg/kg	1.45E+01	1.42E-07	4.01E-07	9.17E-11	
14	2	Surface	Beryllium	mg/kg	7.10E-01	6.95E-09	4.57E-09	4.48E-12	
14	2	Surface	Chromium	mg/kg	6.65E+01	6.51E-07	3.06E-06	4.20E-10	
14	2	Surface	Copper	mg/kg	1.76E+02	1.73E-06	8.11E-06	1.11E-09	
14	2	Surface	Iron	mg/kg	3.72E+04	3.64E-04	1.71E-03	2.35E-07	
14	2	Surface	Manganese	mg/kg	1.44E+03	1.41E-05	5.31E-05	9.10E-09	
14	2	Surface	Mercury	mg/kg	2.67E-01	2.61E-09	1.23E-08	5.02E-08	
14	2	Surface	Neptunium-237	pCi/g	7.70E-01	1.35E+01		8.69E-03	1.97E-01
14	2	Surface	Nickel	mg/kg	6.78E+02	6.63E-06	2.49E-05	4.28E-09	
14	2	Surface	PCB, Total	mg/kg	3.90E-01	3.82E-09	5.02E-08	4.15E-09	
14	2	Surface	Thorium-230	pCi/g	5.98E+00	1.05E+02		6.75E-02	1.53E+00
14	2	Surface	Total PAH	mg/kg	3.38E-01	3.31E-09	4.04E-08	1.58E-10	
14	2	Surface	Uranium	mg/kg	2.93E+02	2.87E-06	1.35E-05	1.85E-09	
14	2	Surface	Uranium-234	pCi/g	3.24E+01	5.67E+02		3.66E-01	8.28E+00
14	2	Surface	Uranium-235	pCi/g	2.00E+00	3.50E+01		2.26E-02	5.11E-01
14	2	Surface	Uranium-238	pCi/g	5.61E+01	9.82E+02		6.33E-01	1.43E+01
14	3	Surface	Arsenic	mg/kg	1.30E+01	1.27E-07	3.58E-07	8.19E-11	
14	3	Surface	Chromium	mg/kg	7.01E+01	6.86E-07	3.23E-06	4.43E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	3	Surface	Copper	mg/kg	1.29E+02	1.27E-06	5.95E-06	8.16E-10	
14	3	Surface	Iron	mg/kg	3.48E+04	3.41E-04	1.60E-03	2.20E-07	
14	3	Surface	Manganese	mg/kg	1.06E+03	1.03E-05	3.89E-05	6.67E-09	
14	3	Surface	Mercury	mg/kg	7.48E+00	7.32E-08	3.44E-07	1.41E-06	
14	3	Surface	Molybdenum	mg/kg	2.21E+01	2.16E-07	1.01E-06	1.39E-10	
14	3	Surface	Nickel	mg/kg	5.76E+02	5.64E-06	2.12E-05	3.64E-09	
14	3	Surface	PCB, Total	mg/kg	8.65E+00	8.46E-08	1.11E-06	9.20E-08	
14	3	Surface	Uranium	mg/kg	2.18E+02	2.13E-06	1.00E-05	1.37E-09	
14	3	Surface	Uranium-238	pCi/g	1.50E+00	2.63E+01		1.69E-02	3.84E-01
14	4	Surface	Antimony	mg/kg	4.30E+00	4.21E-08	1.98E-07	2.71E-11	
14	4	Surface	Arsenic	mg/kg	1.33E+01	1.30E-07	3.66E-07	8.38E-11	
14	4	Surface	Chromium	mg/kg	7.20E+01	7.05E-07	3.31E-06	4.55E-10	
14	4	Surface	Copper	mg/kg	3.54E+02	3.46E-06	1.63E-05	2.23E-09	
14	4	Surface	Iron	mg/kg	3.88E+04	3.80E-04	1.79E-03	2.45E-07	
14	4	Surface	Mercury	mg/kg	4.87E-01	4.77E-09	2.24E-08	9.16E-08	
14	4	Surface	Neptunium-237	pCi/g	2.68E+00	4.69E+01		3.03E-02	6.85E-01
14	4	Surface	Nickel	mg/kg	7.31E+02	7.15E-06	2.69E-05	4.61E-09	
14	4	Surface	PCB, Total	mg/kg	6.61E+00	6.46E-08	8.51E-07	7.03E-08	
14	4	Surface	Silver	mg/kg	1.17E+01	1.14E-07	4.30E-07	7.39E-11	
14	4	Surface	Thorium-230	pCi/g	8.33E+00	1.46E+02		9.40E-02	2.13E+00
14	4	Surface	Total PAH	mg/kg	2.51E-01	2.45E-09	3.00E-08	1.17E-10	
14	4	Surface	Uranium	mg/kg	3.72E+02	3.64E-06	1.71E-05	2.35E-09	
14	4	Surface	Uranium-234	pCi/g	1.13E+02	1.98E+03		1.28E+00	2.89E+01
14	4	Surface	Uranium-235	pCi/g	8.00E+00	1.40E+02		9.03E-02	2.05E+00
14	4	Surface	Uranium-238	pCi/g	1.69E+02	2.96E+03		1.91E+00	4.32E+01
14	5	Surface	Antimony	mg/kg	2.30E+00	2.25E-08	1.06E-07	1.45E-11	
14	5	Surface	Arsenic	mg/kg	1.31E+01	1.28E-07	3.61E-07	8.26E-11	
14	5	Surface	Cadmium	mg/kg	3.90E+00	3.82E-08	3.59E-09	2.46E-11	
14	5	Surface	Chromium	mg/kg	4.70E+01	4.60E-07	2.16E-06	2.97E-10	
14	5	Surface	Cobalt	mg/kg	1.40E+01	1.37E-07	6.44E-07	8.84E-11	
14	5	Surface	Copper	mg/kg	1.34E+02	1.31E-06	6.14E-06	8.43E-10	
14	5	Surface	Iron	mg/kg	3.92E+04	3.84E-04	1.80E-03	2.47E-07	
14	5	Surface	Manganese	mg/kg	8.28E+02	8.10E-06	3.04E-05	5.22E-09	
14	5	Surface	Mercury	mg/kg	1.09E+01	1.07E-07	5.03E-07	2.06E-06	
14	5	Surface	Neptunium-237	pCi/g	1.74E+00	3.05E+01		1.96E-02	4.45E-01
14	5	Surface	Nickel	mg/kg	4.61E+02	4.51E-06	1.70E-05	2.91E-09	
14	5	Surface	PCB, Total	mg/kg	1.00E+00	9.78E-09	1.29E-07	1.06E-08	
14	5	Surface	Silver	mg/kg	1.29E+01	1.26E-07	4.73E-07	8.12E-11	
14	5	Surface	Technetium-99	pCi/g	1.01E+02	1.77E+03		1.14E+00	2.58E+01
14	5	Surface	Thallium	mg/kg	4.10E-01	4.01E-09	1.89E-08	2.59E-12	
14	5	Surface	Thorium-230	pCi/g	1.39E+01	2.43E+02		1.57E-01	3.55E+00
14	5	Surface	Total PAH	mg/kg	1.21E-01	1.18E-09	1.45E-08	5.65E-11	
14	5	Surface	Uranium	mg/kg	2.62E+02	2.57E-06	1.21E-05	1.66E-09	
14	5	Surface	Uranium-234	pCi/g	5.22E+01	9.14E+02		5.89E-01	1.33E+01
14	5	Surface	Uranium-235	pCi/g	3.33E+00	5.83E+01		3.76E-02	8.52E-01
14	5	Surface	Uranium-238	pCi/g	9.42E+01	1.65E+03		1.06E+00	2.41E+01
14	6	Surface	Antimony	mg/kg	2.70E+00	2.64E-08	1.24E-07	1.70E-11	
14	6	Surface	Cadmium	mg/kg	8.40E-01	8.22E-09	7.73E-10	5.30E-12	
14	6	Surface	Chromium	mg/kg	4.46E+02	4.36E-06	2.05E-05	2.81E-09	
14	6	Surface	Copper	mg/kg	1.22E+02	1.20E-06	5.62E-06	7.72E-10	
14	6	Surface	Mercury	mg/kg	3.47E-01	3.40E-09	1.60E-08	6.53E-08	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	6	Surface	Neptunium-237	pCi/g	2.65E+00	4.64E+01		2.99E-02	6.78E-01
14	6	Surface	Nickel	mg/kg	9.63E+02	9.43E-06	3.54E-05	6.08E-09	
14	6	Surface	PCB, Total	mg/kg	5.00E+00	4.89E-08	6.44E-07	5.32E-08	
14	6	Surface	Silver	mg/kg	1.19E+01	1.16E-07	4.37E-07	7.50E-11	
14	6	Surface	Uranium	mg/kg	5.79E+02	5.66E-06	2.66E-05	3.65E-09	
14	6	Surface	Uranium-234	pCi/g	3.41E+01	5.97E+02		3.85E-01	8.72E+00
14	6	Surface	Uranium-235	pCi/g	2.27E+00	3.97E+01		2.56E-02	5.80E-01
14	6	Surface	Uranium-238	pCi/g	5.08E+01	8.89E+02		5.74E-01	1.30E+01
14	7	Surface	Antimony	mg/kg	7.50E-01	7.34E-09	3.45E-08	4.73E-12	
14	7	Surface	Arsenic	mg/kg	1.13E+01	1.11E-07	3.12E-07	7.13E-11	
14	7	Surface	Cadmium	mg/kg	2.70E+00	2.64E-08	2.48E-09	1.70E-11	
14	7	Surface	Chromium	mg/kg	6.46E+01	6.32E-07	2.97E-06	4.08E-10	
14	7	Surface	Mercury	mg/kg	7.82E+00	7.65E-08	3.60E-07	1.47E-06	
14	7	Surface	Neptunium-237	pCi/g	1.49E+00	2.61E+01		1.68E-02	3.81E-01
14	7	Surface	Nickel	mg/kg	1.22E+03	1.20E-05	4.50E-05	7.72E-09	
14	7	Surface	PCB, Total	mg/kg	7.60E+00	7.44E-08	9.79E-07	8.09E-08	
14	7	Surface	Total PAH	mg/kg	6.31E-02	6.18E-10	7.55E-09	2.95E-11	
14	7	Surface	Uranium	mg/kg	3.33E+02	3.26E-06	1.53E-05	2.10E-09	
14	7	Surface	Uranium-234	pCi/g	1.28E+01	2.24E+02		1.45E-01	3.27E+00
14	7	Surface	Uranium-235	pCi/g	9.60E-01	1.68E+01		1.08E-02	2.45E-01
14	7	Surface	Uranium-238	pCi/g	2.13E+01	3.73E+02		2.40E-01	5.45E+00
14	8	Surface	Antimony	mg/kg	6.10E-01	5.97E-09	2.81E-08	3.85E-12	
14	8	Surface	Arsenic	mg/kg	1.14E+01	1.11E-07	3.14E-07	7.18E-11	
14	8	Surface	Chromium	mg/kg	4.60E+01	4.50E-07	2.12E-06	2.91E-10	
14	8	Surface	Mercury	mg/kg	7.90E+00	7.73E-08	3.63E-07	1.49E-06	
14	8	Surface	Neptunium-237	pCi/g	8.80E-01	1.54E+01		9.94E-03	2.25E-01
14	8	Surface	Nickel	mg/kg	6.73E+02	6.58E-06	2.47E-05	4.25E-09	
14	8	Surface	PCB, Total	mg/kg	5.00E+00	4.89E-08	6.44E-07	5.32E-08	
14	8	Surface	Silver	mg/kg	9.63E+00	9.42E-08	3.54E-07	6.08E-11	
14	8	Surface	Total PAH	mg/kg	6.28E-02	6.14E-10	7.50E-09	2.93E-11	
14	8	Surface	Uranium	mg/kg	3.35E+02	3.28E-06	1.54E-05	2.12E-09	
14	8	Surface	Uranium-235	pCi/g	2.38E-01	4.17E+00		2.69E-03	6.09E-02
14	8	Surface	Uranium-238	pCi/g	5.92E+00	1.04E+02		6.68E-02	1.51E+00
14	9	Surface	Antimony	mg/kg	2.00E+00	1.96E-08	9.20E-08	1.26E-11	
14	9	Surface	Arsenic	mg/kg	1.40E+01	1.37E-07	3.87E-07	8.86E-11	
14	9	Surface	Cadmium	mg/kg	9.40E-01	9.20E-09	8.65E-10	5.93E-12	
14	9	Surface	Cesium-137	pCi/g	4.53E-01	7.93E+00		5.11E-03	1.16E-01
14	9	Surface	Chromium	mg/kg	4.64E+01	4.54E-07	2.14E-06	2.93E-10	
14	9	Surface	Mercury	mg/kg	1.13E+00	1.11E-08	5.20E-08	2.13E-07	
14	9	Surface	Neptunium-237	pCi/g	1.09E+01	1.91E+02		1.23E-01	2.79E+00
14	9	Surface	Nickel	mg/kg	9.43E+02	9.23E-06	3.47E-05	5.96E-09	
14	9	Surface	PCB, Total	mg/kg	6.84E+00	6.69E-08	8.81E-07	7.28E-08	
14	9	Surface	Technetium-99	pCi/g	1.96E+02	3.43E+03		2.21E+00	5.01E+01
14	9	Surface	Total PAH	mg/kg	4.87E-01	4.77E-09	5.83E-08	2.28E-10	
14	9	Surface	Uranium	mg/kg	1.46E+03	1.43E-05	6.73E-05	9.24E-09	
14	9	Surface	Uranium-234	pCi/g	8.32E+02	1.46E+04		9.39E+00	2.13E+02
14	9	Surface	Uranium-235	pCi/g	5.46E+01	9.55E+02		6.16E-01	1.39E+01
14	9	Surface	Uranium-238	pCi/g	1.20E+03	2.10E+04		1.35E+01	3.07E+02
14	10	Surface	Antimony	mg/kg	9.40E-01	9.20E-09	4.32E-08	5.93E-12	
14	10	Surface	Arsenic	mg/kg	1.12E+01	1.10E-07	3.10E-07	7.10E-11	
14	10	Surface	Chromium	mg/kg	4.19E+01	4.09E-07	1.92E-06	2.64E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	10	Surface	Copper	mg/kg	1.41E+02	1.38E-06	6.49E-06	8.91E-10	
14	10	Surface	Iron	mg/kg	2.75E+04	2.69E-04	1.26E-03	1.73E-07	
14	10	Surface	Mercury	mg/kg	2.51E+01	2.45E-07	1.15E-06	4.72E-06	
14	10	Surface	Neptunium-237	pCi/g	2.64E+00	4.62E+01		2.98E-02	6.75E-01
14	10	Surface	Nickel	mg/kg	6.00E+02	5.87E-06	2.21E-05	3.79E-09	
14	10	Surface	PCB, Total	mg/kg	9.38E+00	9.18E-08	1.21E-06	9.98E-08	
14	10	Surface	Total PAH	mg/kg	2.72E-01	2.66E-09	3.25E-08	1.27E-10	
14	10	Surface	Uranium	mg/kg	2.88E+02	2.82E-06	1.33E-05	1.82E-09	
14	10	Surface	Uranium-234	pCi/g	2.42E+01	4.24E+02		2.73E-01	6.19E+00
14	10	Surface	Uranium-235	pCi/g	1.76E+00	3.08E+01		1.99E-02	4.50E-01
14	10	Surface	Uranium-238	pCi/g	4.09E+01	7.16E+02		4.62E-01	1.05E+01
15	1	Surface	Antimony	mg/kg	6.40E-01	6.26E-09	2.94E-08	4.04E-12	
15	1	Surface	Arsenic	mg/kg	1.24E+01	1.21E-07	3.41E-07	7.81E-11	
15	1	Surface	Chromium	mg/kg	5.61E+01	5.49E-07	2.58E-06	3.54E-10	
15	1	Surface	Copper	mg/kg	1.95E+02	1.91E-06	8.96E-06	1.23E-09	
15	1	Surface	Iron	mg/kg	2.95E+04	2.89E-04	1.36E-03	1.86E-07	
15	1	Surface	Nickel	mg/kg	1.33E+02	1.30E-06	4.88E-06	8.37E-10	
15	1	Surface	PCB, Total	mg/kg	7.80E-02	7.63E-10	1.00E-08	8.30E-10	
15	1	Surface	Silver	mg/kg	1.23E+01	1.20E-07	4.52E-07	7.76E-11	
15	1	Surface	Total PAH	mg/kg	1.71E+00	1.68E-08	2.05E-07	8.00E-10	
15	1	Surface	Uranium	mg/kg	3.09E+01	3.03E-07	1.42E-06	1.95E-10	
15	1	Surface	Uranium-238	pCi/g	1.85E+00	3.24E+01		2.09E-02	4.73E-01
15	2	Surface	Antimony	mg/kg	6.60E-01	6.46E-09	3.04E-08	4.17E-12	
15	2	Surface	Arsenic	mg/kg	1.63E+01	1.59E-07	4.49E-07	1.03E-10	
15	2	Surface	Chromium	mg/kg	5.90E+01	5.77E-07	2.71E-06	3.72E-10	
15	2	Surface	Iron	mg/kg	3.89E+04	3.81E-04	1.79E-03	2.45E-07	
15	2	Surface	Mercury	mg/kg	9.33E+00	9.13E-08	4.29E-07	1.76E-06	
15	2	Surface	Neptunium-237	pCi/g	1.35E-01	2.36E+00		1.52E-03	3.45E-02
15	2	Surface	Nickel	mg/kg	1.97E+02	1.93E-06	7.26E-06	1.25E-09	
15	2	Surface	PCB, Total	mg/kg	3.30E-01	3.23E-09	4.25E-08	3.51E-09	
15	2	Surface	Total PAH	mg/kg	2.11E+00	2.06E-08	2.52E-07	9.84E-10	
15	2	Surface	Uranium	mg/kg	1.32E+02	1.29E-06	6.06E-06	8.31E-10	
15	2	Surface	Uranium-234	pCi/g	6.51E+00	1.14E+02		7.35E-02	1.66E+00
15	2	Surface	Uranium-235	pCi/g	3.80E-01	6.65E+00		4.29E-03	9.72E-02
15	2	Surface	Uranium-238	pCi/g	1.21E+01	2.12E+02		1.37E-01	3.09E+00
15	3	Surface	Antimony	mg/kg	2.45E+01	2.40E-07	1.13E-06	1.55E-10	
15	3	Surface	Arsenic	mg/kg	2.60E+01	2.54E-07	7.17E-07	1.64E-10	
15	3	Surface	Beryllium	mg/kg	7.60E-01	7.44E-09	4.89E-09	4.80E-12	
15	3	Surface	Cadmium	mg/kg	1.19E+01	1.16E-07	1.09E-08	7.51E-11	
15	3	Surface	Chromium	mg/kg	7.53E+01	7.37E-07	3.46E-06	4.76E-10	
15	3	Surface	Cobalt	mg/kg	3.41E+01	3.34E-07	1.57E-06	2.15E-10	
15	3	Surface	Copper	mg/kg	1.40E+03	1.37E-05	6.42E-05	8.81E-09	
15	3	Surface	Iron	mg/kg	9.20E+04	9.00E-04	4.23E-03	5.81E-07	
15	3	Surface	Manganese	mg/kg	1.60E+03	1.57E-05	5.90E-05	1.01E-08	
15	3	Surface	Mercury	mg/kg	2.74E+00	2.68E-08	1.26E-07	5.16E-07	
15	3	Surface	Molybdenum	mg/kg	1.70E+01	1.66E-07	7.82E-07	1.07E-10	
15	3	Surface	Neptunium-237	pCi/g	4.10E+00	7.18E+01		4.63E-02	1.05E+00
15	3	Surface	Nickel	mg/kg	7.57E+02	7.40E-06	2.78E-05	4.78E-09	
15	3	Surface	PCB, Total	mg/kg	6.82E+00	6.68E-08	8.79E-07	7.26E-08	
15	3	Surface	Selenium	mg/kg	2.65E+01	2.59E-07	1.22E-06	1.67E-10	
15	3	Surface	Silver	mg/kg	3.20E+00	3.13E-08	1.18E-07	2.02E-11	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	3	Surface	Technetium-99	pCi/g	3.67E+02	6.42E+03		4.14E+00	9.38E+01
15	3	Surface	Thorium-230	pCi/g	7.23E+00	1.27E+02		8.16E-02	1.85E+00
15	3	Surface	Total PAH	mg/kg	1.45E+00	1.42E-08	1.74E-07	6.79E-10	
15	3	Surface	Uranium	mg/kg	2.16E+02	2.11E-06	9.93E-06	1.36E-09	
15	3	Surface	Uranium-234	pCi/g	6.96E+01	1.22E+03		7.86E-01	1.78E+01
15	3	Surface	Uranium-235	pCi/g	4.21E+00	7.37E+01		4.75E-02	1.08E+00
15	3	Surface	Uranium-238	pCi/g	9.67E+01	1.69E+03		1.09E+00	2.47E+01
15	3	Surface	Zinc	mg/kg	8.79E+02	8.60E-06	4.04E-05	5.55E-09	
15	4	Surface	Antimony	mg/kg	7.40E+00	7.24E-08	3.40E-07	4.67E-11	
15	4	Surface	Arsenic	mg/kg	3.47E+01	3.39E-07	9.56E-07	2.19E-10	
15	4	Surface	Cadmium	mg/kg	1.40E+00	1.37E-08	1.29E-09	8.84E-12	
15	4	Surface	Chromium	mg/kg	1.02E+02	1.00E-06	4.70E-06	6.45E-10	
15	4	Surface	Copper	mg/kg	7.05E+02	6.90E-06	3.24E-05	4.45E-09	
15	4	Surface	Iron	mg/kg	7.81E+04	7.64E-04	3.59E-03	4.93E-07	
15	4	Surface	Manganese	mg/kg	1.54E+03	1.50E-05	5.65E-05	9.70E-09	
15	4	Surface	Mercury	mg/kg	1.41E+01	1.38E-07	6.48E-07	2.65E-06	
15	4	Surface	Neptunium-237	pCi/g	8.00E-01	1.40E+01		9.03E-03	2.05E-01
15	4	Surface	Nickel	mg/kg	1.37E+03	1.34E-05	5.06E-05	8.67E-09	
15	4	Surface	PCB, Total	mg/kg	2.67E+01	2.61E-07	3.44E-06	2.84E-07	
15	4	Surface	Silver	mg/kg	1.46E+01	1.43E-07	5.37E-07	9.22E-11	
15	4	Surface	Total PAH	mg/kg	2.44E+00	2.39E-08	2.92E-07	1.14E-09	
15	4	Surface	Uranium	mg/kg	1.57E+02	1.53E-06	7.20E-06	9.88E-10	
15	4	Surface	Uranium-234	pCi/g	1.07E+01	1.87E+02		1.21E-01	2.74E+00
15	4	Surface	Uranium-235	pCi/g	4.30E-01	7.53E+00		4.85E-03	1.10E-01
15	4	Surface	Uranium-238	pCi/g	1.87E+01	3.27E+02		2.11E-01	4.78E+00
15	4	Surface	Zinc	mg/kg	1.19E+03	1.16E-05	5.47E-05	7.51E-09	
15	5	Surface	Antimony	mg/kg	3.10E+00	3.03E-08	1.43E-07	1.96E-11	
15	5	Surface	Arsenic	mg/kg	1.28E+01	1.25E-07	3.53E-07	8.07E-11	
15	5	Surface	Cadmium	mg/kg	1.50E+00	1.47E-08	1.38E-09	9.47E-12	
15	5	Surface	Chromium	mg/kg	4.28E+01	4.19E-07	1.97E-06	2.70E-10	
15	5	Surface	Copper	mg/kg	5.63E+03	5.51E-05	2.59E-04	3.56E-08	
15	5	Surface	Mercury	mg/kg	3.38E-01	3.31E-09	1.55E-08	6.36E-08	
15	5	Surface	Neptunium-237	pCi/g	6.90E-01	1.21E+01		7.79E-03	1.76E-01
15	5	Surface	Nickel	mg/kg	5.10E+02	4.99E-06	1.88E-05	3.22E-09	
15	5	Surface	PCB, Total	mg/kg	2.51E+01	2.46E-07	3.24E-06	2.67E-07	
15	5	Surface	Silver	mg/kg	1.46E+01	1.43E-07	5.37E-07	9.22E-11	
15	5	Surface	Technetium-99	pCi/g	1.07E+02	1.87E+03		1.21E+00	2.74E+01
15	5	Surface	Total PAH	mg/kg	5.11E-01	5.00E-09	6.11E-08	2.38E-10	
15	5	Surface	Uranium	mg/kg	2.13E+02	2.09E-06	9.81E-06	1.35E-09	
15	5	Surface	Uranium-234	pCi/g	5.83E+00	1.02E+02		6.58E-02	1.49E+00
15	5	Surface	Uranium-235	pCi/g	4.60E-01	8.05E+00		5.19E-03	1.18E-01
15	5	Surface	Uranium-238	pCi/g	1.03E+01	1.80E+02		1.16E-01	2.63E+00
15	5	Surface	Zinc	mg/kg	1.52E+03	1.49E-05	7.01E-05	9.62E-09	
15	6	Surface	Antimony	mg/kg	5.10E+00	4.99E-08	2.35E-07	3.22E-11	
15	6	Surface	Arsenic	mg/kg	1.24E+01	1.22E-07	3.43E-07	7.85E-11	
15	6	Surface	Cadmium	mg/kg	1.50E+00	1.47E-08	1.38E-09	9.47E-12	
15	6	Surface	Chromium	mg/kg	5.80E+01	5.67E-07	2.67E-06	3.66E-10	
15	6	Surface	Cobalt	mg/kg	1.62E+01	1.59E-07	7.45E-07	1.02E-10	
15	6	Surface	Copper	mg/kg	4.23E+02	4.14E-06	1.94E-05	2.67E-09	
15	6	Surface	Iron	mg/kg	3.15E+04	3.08E-04	1.45E-03	1.99E-07	
15	6	Surface	Mercury	mg/kg	4.10E-01	4.01E-09	1.89E-08	7.72E-08	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	6	Surface	Neptunium-237	pCi/g	6.40E-01	1.12E+01		7.23E-03	1.64E-01
15	6	Surface	Nickel	mg/kg	3.24E+02	3.17E-06	1.19E-05	2.05E-09	
15	6	Surface	PCB, Total	mg/kg	6.17E+00	6.03E-08	7.94E-07	6.56E-08	
15	6	Surface	Silver	mg/kg	1.09E+01	1.07E-07	4.01E-07	6.89E-11	
15	6	Surface	Total PAH	mg/kg	1.62E+00	1.59E-08	1.94E-07	7.58E-10	
15	6	Surface	Uranium	mg/kg	6.70E+01	6.56E-07	3.08E-06	4.23E-10	
15	6	Surface	Uranium-234	pCi/g	8.74E+00	1.53E+02		9.87E-02	2.23E+00
15	6	Surface	Uranium-235	pCi/g	5.70E-01	9.98E+00		6.44E-03	1.46E-01
15	6	Surface	Uranium-238	pCi/g	1.54E+01	2.70E+02		1.74E-01	3.94E+00
15	7	Surface	Antimony	mg/kg	7.50E-01	7.34E-09	3.45E-08	4.73E-12	
15	7	Surface	Arsenic	mg/kg	1.61E+01	1.57E-07	4.44E-07	1.02E-10	
15	7	Surface	Cadmium	mg/kg	1.00E+00	9.78E-09	9.20E-10	6.31E-12	
15	7	Surface	Chromium	mg/kg	7.87E+01	7.70E-07	3.62E-06	4.97E-10	
15	7	Surface	Copper	mg/kg	7.33E+02	7.17E-06	3.37E-05	4.63E-09	
15	7	Surface	Iron	mg/kg	3.42E+04	3.35E-04	1.57E-03	2.16E-07	
15	7	Surface	Manganese	mg/kg	1.11E+03	1.08E-05	4.07E-05	6.98E-09	
15	7	Surface	Neptunium-237	pCi/g	2.23E-01	3.90E+00		2.52E-03	5.70E-02
15	7	Surface	Nickel	mg/kg	5.59E+02	5.47E-06	2.06E-05	3.53E-09	
15	7	Surface	PCB, Total	mg/kg	2.57E+01	2.51E-07	3.31E-06	2.73E-07	
15	7	Surface	Silver	mg/kg	1.29E+01	1.26E-07	4.73E-07	8.12E-11	
15	7	Surface	Total PAH	mg/kg	1.59E-01	1.55E-09	1.90E-08	7.41E-11	
15	7	Surface	Uranium	mg/kg	5.39E+01	5.27E-07	2.48E-06	3.40E-10	
15	7	Surface	Uranium-234	pCi/g	6.49E+00	1.14E+02		7.33E-02	1.66E+00
15	7	Surface	Uranium-235	pCi/g	4.50E-01	7.88E+00		5.08E-03	1.15E-01
15	7	Surface	Uranium-238	pCi/g	8.05E+00	1.41E+02		9.09E-02	2.06E+00
15	7	Surface	Zinc	mg/kg	5.87E+02	5.74E-06	2.70E-05	3.71E-09	
15	8	Surface	Antimony	mg/kg	5.40E+00	5.28E-08	2.48E-07	3.41E-11	
15	8	Surface	Arsenic	mg/kg	1.17E+01	1.14E-07	3.21E-07	7.35E-11	
15	8	Surface	Chromium	mg/kg	7.74E+01	7.57E-07	3.56E-06	4.89E-10	
15	8	Surface	Copper	mg/kg	1.62E+02	1.58E-06	7.44E-06	1.02E-09	
15	8	Surface	Iron	mg/kg	2.83E+04	2.76E-04	1.30E-03	1.78E-07	
15	8	Surface	Mercury	mg/kg	1.00E+01	9.82E-08	4.62E-07	1.89E-06	
15	8	Surface	Neptunium-237	pCi/g	3.65E-01	6.39E+00		4.12E-03	9.33E-02
15	8	Surface	Nickel	mg/kg	1.82E+02	1.78E-06	6.68E-06	1.15E-09	
15	8	Surface	PCB, Total	mg/kg	4.90E+00	4.79E-08	6.31E-07	5.21E-08	
15	8	Surface	Silver	mg/kg	1.36E+01	1.33E-07	4.99E-07	8.55E-11	
15	8	Surface	Total PAH	mg/kg	3.59E-01	3.51E-09	4.29E-08	1.67E-10	
15	8	Surface	Uranium	mg/kg	4.46E+01	4.36E-07	2.05E-06	2.81E-10	
15	8	Surface	Uranium-235	pCi/g	3.04E-01	5.32E+00		3.43E-03	7.77E-02
15	8	Surface	Uranium-238	pCi/g	6.64E+00	1.16E+02		7.50E-02	1.70E+00
15	9	Surface	Arsenic	mg/kg	1.10E+01	1.08E-07	3.05E-07	6.97E-11	
15	9	Surface	Chromium	mg/kg	9.56E+01	9.36E-07	4.40E-06	6.04E-10	
15	9	Surface	Copper	mg/kg	1.36E+02	1.33E-06	6.25E-06	8.57E-10	
15	9	Surface	Iron	mg/kg	2.76E+04	2.70E-04	1.27E-03	1.74E-07	
15	9	Surface	Neptunium-237	pCi/g	1.28E-01	2.24E+00		1.45E-03	3.27E-02
15	9	Surface	Nickel	mg/kg	1.49E+02	1.46E-06	5.48E-06	9.40E-10	
15	9	Surface	PCB, Total	mg/kg	3.30E-01	3.23E-09	4.25E-08	3.51E-09	
15	9	Surface	Silver	mg/kg	1.54E+01	1.51E-07	5.67E-07	9.73E-11	
15	9	Surface	Total PAH	mg/kg	2.38E-01	2.33E-09	2.85E-08	1.11E-10	
15	9	Surface	Uranium	mg/kg	3.07E+01	3.00E-07	1.41E-06	1.94E-10	
15	9	Surface	Uranium-235	pCi/g	2.42E-01	4.24E+00		2.73E-03	6.19E-02

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	9	Surface	Uranium-238	pCi/g	7.12E+00	1.25E+02		8.04E-02	1.82E+00
15	10	Surface	Chromium	mg/kg	3.55E+01	3.47E-07	1.63E-06	2.24E-10	
15	10	Surface	Mercury	mg/kg	7.84E+00	7.67E-08	3.61E-07	1.48E-06	
15	10	Surface	Nickel	mg/kg	1.46E+02	1.43E-06	5.36E-06	9.20E-10	
15	10	Surface	Silver	mg/kg	1.08E+01	1.06E-07	3.98E-07	6.82E-11	
15	10	Surface	Total PAH	mg/kg	1.28E-01	1.26E-09	1.54E-08	6.00E-11	
15	10	Surface	Uranium	mg/kg	6.47E+01	6.33E-07	2.98E-06	4.09E-10	
16	1	Surface	Cesium-137	pCi/g	1.10E+00	1.93E+01		1.24E-02	2.81E-01
16	1	Surface	PCB, Total	mg/kg	9.60E-02	9.39E-10	1.24E-08	1.02E-09	
16	1	Surface	Total PAH	mg/kg	2.72E-02	2.66E-10	3.25E-09	1.27E-11	
16	2	Surface	Beryllium	mg/kg	8.40E-01	8.22E-09	5.41E-09	5.30E-12	
16	2	Surface	Chromium	mg/kg	2.04E+01	2.00E-07	9.38E-07	1.29E-10	
16	2	Surface	Nickel	mg/kg	2.16E+01	2.11E-07	7.95E-07	1.36E-10	
16	3	Surface	PCB, Total	mg/kg	9.49E-01	9.29E-09	1.22E-07	1.01E-08	
16	4	Surface	Cesium-137	pCi/g	3.66E+01	6.40E+02		4.13E-01	9.35E+00
16	4	Surface	Cobalt-60	pCi/g	8.53E-03	1.49E-01		9.63E-05	2.18E-03
16	4	Surface	Neptunium-237	pCi/g	7.12E+00	1.25E+02		8.04E-02	1.82E+00
16	4	Surface	PCB, Total	mg/kg	3.20E-01	3.13E-09	4.12E-08	3.41E-09	
16	4	Surface	Technetium-99	pCi/g	2.96E+02	5.17E+03		3.34E+00	7.56E+01
16	4	Surface	Thorium-230	pCi/g	5.29E+00	9.26E+01		5.97E-02	1.35E+00
16	4	Surface	Total PAH	mg/kg	2.93E+00	2.86E-08	3.50E-07	1.37E-09	
16	4	Surface	Uranium-234	pCi/g	1.19E+02	2.08E+03		1.34E+00	3.04E+01
16	4	Surface	Uranium-235	pCi/g	8.23E+00	1.44E+02		9.29E-02	2.10E+00
16	4	Surface	Uranium-238	pCi/g	2.70E+02	4.73E+03		3.05E+00	6.90E+01
19	1	Surface	Beryllium	mg/kg	1.10E+00	1.08E-08	7.08E-09	6.94E-12	
19	1	Surface	Cadmium	mg/kg	1.20E+00	1.17E-08	1.10E-09	7.58E-12	
19	1	Surface	Thallium	mg/kg	9.80E-01	9.59E-09	4.51E-08	6.19E-12	
19	1	Surface	Total PAH	mg/kg	5.23E+00	5.11E-08	6.25E-07	2.44E-09	
26	1	Surface	Arsenic	mg/kg	1.29E+01	1.26E-07	3.55E-07	8.13E-11	
26	1	Surface	Beryllium	mg/kg	6.69E-01	6.55E-09	4.31E-09	4.22E-12	
26	1	Surface	Cadmium	mg/kg	1.99E+00	1.95E-08	1.83E-09	1.26E-11	
26	1	Surface	Cesium-137	pCi/g	3.16E+00	5.54E+01		3.57E-02	8.09E-01
26	1	Surface	Chromium	mg/kg	1.90E+01	1.86E-07	8.74E-07	1.20E-10	
26	1	Surface	Cobalt-60	pCi/g	1.93E-03	3.38E-02		2.18E-05	4.94E-04
26	1	Surface	Mercury	mg/kg	1.66E-01	1.62E-09	7.63E-09	3.12E-08	
26	1	Surface	Neptunium-237	pCi/g	2.61E-01	4.57E+00		2.95E-03	6.67E-02
26	1	Surface	Nickel	mg/kg	1.76E+01	1.72E-07	6.47E-07	1.11E-10	
26	1	Surface	PCB, Total	mg/kg	9.33E-01	9.13E-09	1.20E-07	9.93E-09	
26	1	Surface	Plutonium-239/240	pCi/g	4.04E+00	7.06E+01		4.56E-02	1.03E+00
26	1	Surface	Thorium-230	pCi/g	3.82E+00	6.68E+01		4.31E-02	9.76E-01
26	1	Surface	Total PAH	mg/kg	5.00E-02	4.89E-10	5.98E-09	2.33E-11	
26	1	Surface	Uranium	mg/kg	1.29E+02	1.26E-06	5.92E-06	8.12E-10	
26	1	Surface	Uranium-234	pCi/g	4.67E+00	8.16E+01		5.27E-02	1.19E+00
26	1	Surface	Uranium-235	pCi/g	6.41E-01	1.12E+01		7.24E-03	1.64E-01
26	1	Surface	Uranium-238	pCi/g	3.47E+01	6.07E+02		3.91E-01	8.87E+00
26	2	Surface	Aluminum	mg/kg	2.17E+04	2.12E-04	9.96E-04	1.37E-07	
26	2	Surface	Arsenic	mg/kg	4.72E+01	4.62E-07	1.30E-06	2.98E-10	
26	2	Surface	Barium	mg/kg	1.49E+02	1.45E-06	6.84E-06	9.39E-10	
26	2	Surface	Beryllium	mg/kg	9.69E+00	9.48E-08	6.24E-08	6.12E-11	
26	2	Surface	Cadmium	mg/kg	2.38E+00	2.33E-08	2.19E-09	1.50E-11	
26	2	Surface	Cesium-137	pCi/g	5.92E+00	1.04E+02		6.69E-02	1.51E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
26	2	Surface	Chromium	mg/kg	3.90E+01	3.82E-07	1.79E-06	2.46E-10	
26	2	Surface	Cobalt	mg/kg	5.20E+01	5.09E-07	2.39E-06	3.28E-10	
26	2	Surface	Copper	mg/kg	1.31E+02	1.28E-06	6.02E-06	8.27E-10	
26	2	Surface	Iron	mg/kg	5.32E+04	5.20E-04	2.45E-03	3.36E-07	
26	2	Surface	Neptunium-237	pCi/g	7.89E-01	1.38E+01		8.91E-03	2.02E-01
26	2	Surface	Nickel	mg/kg	1.13E+02	1.11E-06	4.16E-06	7.14E-10	
26	2	Surface	PCB, Total	mg/kg	2.23E+00	2.18E-08	2.87E-07	2.37E-08	
26	2	Surface	Thallium	mg/kg	1.39E+01	1.36E-07	6.39E-07	8.77E-11	
26	2	Surface	Thorium-230	pCi/g	1.51E+01	2.65E+02		1.71E-01	3.87E+00
26	2	Surface	Uranium	mg/kg	6.46E+02	6.32E-06	2.97E-05	4.08E-09	
26	2	Surface	Uranium-234	pCi/g	1.91E+01	3.34E+02		2.15E-01	4.88E+00
26	2	Surface	Uranium-235	pCi/g	1.71E+00	2.99E+01		1.93E-02	4.36E-01
26	2	Surface	Uranium-238	pCi/g	5.14E+01	9.00E+02		5.81E-01	1.32E+01
26	2	Surface	Vanadium	mg/kg	3.13E+01	3.06E-07	7.47E-07	1.97E-10	
26	3	Surface	Aluminum	mg/kg	9.55E+03	9.34E-05	4.39E-04	6.03E-08	
26	3	Surface	Antimony	mg/kg	1.40E+00	1.37E-08	6.44E-08	8.84E-12	
26	3	Surface	Arsenic	mg/kg	5.09E+01	4.98E-07	1.40E-06	3.21E-10	
26	3	Surface	Barium	mg/kg	4.48E+02	4.38E-06	2.06E-05	2.82E-09	
26	3	Surface	Beryllium	mg/kg	2.54E+00	2.48E-08	1.63E-08	1.60E-11	
26	3	Surface	Cadmium	mg/kg	2.34E+00	2.29E-08	2.15E-09	1.48E-11	
26	3	Surface	Cesium-137	pCi/g	7.48E-01	1.31E+01		8.45E-03	1.91E-01
26	3	Surface	Chromium	mg/kg	3.25E+01	3.18E-07	1.50E-06	2.05E-10	
26	3	Surface	Cobalt	mg/kg	1.21E+01	1.18E-07	5.57E-07	7.64E-11	
26	3	Surface	Mercury	mg/kg	3.87E-01	3.79E-09	1.78E-08	7.28E-08	
26	3	Surface	Naphthalene	mg/kg	1.32E+00	1.29E-08	3.04E-07	2.78E-07	
26	3	Surface	Neptunium-237	pCi/g	7.53E-01	1.32E+01		8.50E-03	1.93E-01
26	3	Surface	Nickel	mg/kg	2.97E+01	2.91E-07	1.09E-06	1.87E-10	
26	3	Surface	PCB, Total	mg/kg	2.52E+00	2.46E-08	3.24E-07	2.68E-08	
26	3	Surface	Silver	mg/kg	2.59E+01	2.53E-07	9.53E-07	1.63E-10	
26	3	Surface	Technetium-99	pCi/g	6.48E+01	1.13E+03		7.31E-01	1.66E+01
26	3	Surface	Thallium	mg/kg	6.00E-01	5.87E-09	2.76E-08	3.79E-12	
26	3	Surface	Thorium-230	pCi/g	7.10E+00	1.24E+02		8.01E-02	1.81E+00
26	3	Surface	Total PAH	mg/kg	1.19E+00	1.16E-08	1.42E-07	5.55E-10	
26	3	Surface	Uranium	mg/kg	9.88E+01	9.66E-07	4.54E-06	6.23E-10	
26	3	Surface	Uranium-234	pCi/g	4.63E+01	8.11E+02		5.23E-01	1.18E+01
26	3	Surface	Uranium-235	pCi/g	1.69E+00	2.96E+01		1.91E-02	4.32E-01
26	3	Surface	Uranium-238	pCi/g	5.19E+01	9.07E+02		5.85E-01	1.33E+01
26	3	Surface	Vanadium	mg/kg	3.77E+01	3.69E-07	9.01E-07	2.38E-10	
26	4	Surface	Aluminum	mg/kg	1.07E+04	1.04E-04	4.91E-04	6.73E-08	
26	4	Surface	Americium-241	pCi/g	1.27E+00	2.23E+01		1.44E-02	3.26E-01
26	4	Surface	Antimony	mg/kg	6.00E-01	5.87E-09	2.76E-08	3.79E-12	
26	4	Surface	Beryllium	mg/kg	6.91E-01	6.76E-09	4.45E-09	4.36E-12	
26	4	Surface	Cadmium	mg/kg	1.99E+00	1.95E-08	1.83E-09	1.26E-11	
26	4	Surface	Cesium-137	pCi/g	6.38E-01	1.12E+01		7.20E-03	1.63E-01
26	4	Surface	Chromium	mg/kg	8.57E+01	8.39E-07	3.94E-06	5.41E-10	
26	4	Surface	Cobalt-60	pCi/g	1.21E-03	2.12E-02		1.37E-05	3.09E-04
26	4	Surface	Copper	mg/kg	1.16E+02	1.13E-06	5.33E-06	7.31E-10	
26	4	Surface	Mercury	mg/kg	3.07E+00	3.01E-08	1.41E-07	5.78E-07	
26	4	Surface	Neptunium-237	pCi/g	1.36E+01	2.37E+02		1.53E-01	3.47E+00
26	4	Surface	Nickel	mg/kg	7.54E+01	7.38E-07	2.78E-06	4.76E-10	
26	4	Surface	PCB, Total	mg/kg	5.54E-01	5.42E-09	7.13E-08	5.90E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
26	4	Surface	Plutonium-239/240	pCi/g	5.00E+00	8.76E+01		5.65E-02	1.28E+00
26	4	Surface	Technetium-99	pCi/g	5.97E+02	1.05E+04		6.74E+00	1.53E+02
26	4	Surface	Thorium-230	pCi/g	3.26E+01	5.71E+02		3.68E-01	8.34E+00
26	4	Surface	Total PAH	mg/kg	2.83E-02	2.77E-10	3.39E-09	1.32E-11	
26	4	Surface	Uranium	mg/kg	9.75E+02	9.54E-06	4.48E-05	6.16E-09	
26	4	Surface	Uranium-234	pCi/g	1.54E+02	2.70E+03		1.74E+00	3.95E+01
26	4	Surface	Uranium-235	pCi/g	1.08E+01	1.89E+02		1.22E-01	2.76E+00
26	4	Surface	Uranium-238	pCi/g					
47	1	Surface	Aluminum	mg/kg	1.50E+04	1.47E-04	6.90E-04	9.47E-08	
47	1	Surface	Antimony	mg/kg	9.00E-01	8.81E-09	4.14E-08	5.68E-12	
47	1	Surface	Arsenic	mg/kg	4.52E+01	4.42E-07	1.25E-06	2.85E-10	
47	1	Surface	Beryllium	mg/kg	7.00E-01	6.85E-09	4.51E-09	4.42E-12	
47	1	Surface	Cadmium	mg/kg	4.25E+00	4.16E-08	3.91E-09	2.68E-11	
47	1	Surface	Chromium	mg/kg	5.39E+01	5.27E-07	2.48E-06	3.40E-10	
47	1	Surface	Cobalt	mg/kg	1.43E+01	1.40E-07	6.58E-07	9.03E-11	
47	1	Surface	Iron	mg/kg	2.95E+04	2.89E-04	1.36E-03	1.86E-07	
47	1	Surface	Naphthalene	mg/kg	1.90E+00	1.86E-08	4.37E-07	4.00E-07	
47	1	Surface	Neptunium-237	pCi/g	1.15E-01	2.01E+00		1.30E-03	2.94E-02
47	1	Surface	Nickel	mg/kg	8.25E+01	8.07E-07	3.04E-06	5.21E-10	
47	1	Surface	PCB, Total	mg/kg	9.60E-01	9.39E-09	1.24E-07	1.02E-08	
47	1	Surface	Plutonium-239/240	pCi/g	4.11E+00	7.19E+01		4.64E-02	1.05E+00
47	1	Surface	Pyrene	mg/kg	1.11E+02	1.08E-06	1.32E-05	4.59E-07	
47	1	Surface	Thorium-230	pCi/g	4.11E+01	7.19E+02		4.64E-01	1.05E+01
47	1	Surface	Total PAH	mg/kg	5.41E+01	5.29E-07	6.47E-06	2.52E-08	
47	1	Surface	Uranium	mg/kg	3.23E+01	3.16E-07	1.49E-06	2.04E-10	
47	1	Surface	Uranium-234	pCi/g	6.85E+00	1.20E+02		7.73E-02	1.75E+00
47	1	Surface	Uranium-235	pCi/g	5.00E-01	8.75E+00		5.65E-03	1.28E-01
47	1	Surface	Uranium-238	pCi/g	7.93E+00	1.39E+02		8.95E-02	2.03E+00
74	1	Surface	PCB, Total	mg/kg	2.97E+00	2.91E-08	3.83E-07	3.17E-08	
74	1	Surface	Total PAH	mg/kg	3.16E+00	3.09E-08	3.78E-07	1.48E-09	
74	1	Surface	Uranium-234	pCi/g	7.55E+00	1.32E+02		8.52E-02	1.93E+00
74	1	Surface	Uranium-238	pCi/g	3.85E+01	6.74E+02		4.35E-01	9.84E+00
75	1	Surface	Cadmium	mg/kg	1.10E+00	1.08E-08	1.01E-09	6.94E-12	
75	1	Surface	Chromium	mg/kg	7.17E+01	7.02E-07	3.30E-06	4.53E-10	
75	1	Surface	Copper	mg/kg	3.15E+02	3.08E-06	1.45E-05	1.99E-09	
75	1	Surface	Nickel	mg/kg	8.87E+01	8.68E-07	3.26E-06	5.60E-10	
75	1	Surface	PCB, Total	mg/kg	2.30E-01	2.25E-09	2.96E-08	2.45E-09	
75	1	Surface	Total PAH	mg/kg	2.21E-01	2.17E-09	2.65E-08	1.03E-10	
76	1	Surface	Barium	mg/kg	2.69E+02	2.63E-06	1.24E-05	1.70E-09	
76	1	Surface	PCB, Total	mg/kg	2.60E-01	2.54E-09	3.35E-08	2.77E-09	
76	1	Surface	Total PAH	mg/kg	1.76E+00	1.72E-08	2.10E-07	8.21E-10	
76	1	Surface	Uranium-238	pCi/g	1.45E+00	2.54E+01		1.64E-02	3.71E-01
78	1	Surface	Cadmium	mg/kg	2.36E+00	2.31E-08	2.17E-09	1.49E-11	
78	1	Surface	Chromium	mg/kg	3.75E+01	3.67E-07	1.72E-06	2.37E-10	
78	1	Surface	Cobalt-60	pCi/g	5.91E-03	1.03E-01		6.67E-05	1.51E-03
78	1	Surface	Naphthalene	mg/kg	1.60E+01	1.57E-07	3.68E-06	3.37E-06	
78	1	Surface	Nickel	mg/kg	2.15E+01	2.10E-07	7.91E-07	1.36E-10	
78	1	Surface	PCB, Total	mg/kg	1.20E+01	1.17E-07	1.55E-06	1.28E-07	
78	1	Surface	Total PAH	mg/kg	3.91E+01	3.83E-07	4.68E-06	1.83E-08	
78	1	Surface	Uranium-235	pCi/g	2.64E-01	4.62E+00		2.98E-03	6.75E-02
78	1	Surface	Uranium-238	pCi/g	5.29E+00	9.26E+01		5.97E-02	1.35E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
80	1	Surface	Americium-241	pCi/g	6.40E+00	1.12E+02		7.23E-02	1.64E+00
80	1	Surface	Antimony	mg/kg	9.10E-01	8.90E-09	4.18E-08	5.74E-12	
80	1	Surface	Beryllium	mg/kg	7.80E-01	7.63E-09	5.02E-09	4.92E-12	
80	1	Surface	Chromium	mg/kg	1.65E+02	1.61E-06	7.59E-06	1.04E-09	
80	1	Surface	Mercury	mg/kg	4.50E-01	4.40E-09	2.07E-08	8.47E-08	
80	1	Surface	Neptunium-237	pCi/g	5.05E-01	8.84E+00		5.70E-03	1.29E-01
80	1	Surface	PCB, Total	mg/kg	1.46E+01	1.43E-07	1.88E-06	1.56E-07	
80	1	Surface	Thorium-230	pCi/g	4.40E+00	7.70E+01		4.97E-02	1.13E+00
80	1	Surface	Total PAH	mg/kg	1.42E-01	1.39E-09	1.69E-08	6.61E-11	
80	1	Surface	Uranium	mg/kg	5.72E+03	5.60E-05	2.63E-04	3.61E-08	
80	1	Surface	Uranium-234	pCi/g	2.29E+02	4.01E+03		2.59E+00	5.86E+01
80	1	Surface	Uranium-235	pCi/g	3.00E+01	5.25E+02		3.39E-01	7.67E+00
80	1	Surface	Uranium-238	pCi/g	1.92E+03	3.36E+04		2.17E+01	4.91E+02
81	1	Surface	Aluminum	mg/kg	9.57E+03	9.37E-05	4.40E-04	6.04E-08	
81	1	Surface	Arsenic	mg/kg	1.03E+01	1.00E-07	2.83E-07	6.47E-11	
81	1	Surface	Beryllium	mg/kg	7.57E-01	7.41E-09	4.87E-09	4.78E-12	
81	1	Surface	Chromium	mg/kg	8.62E+01	8.43E-07	3.96E-06	5.44E-10	
81	1	Surface	Mercury	mg/kg	8.33E+00	8.15E-08	3.83E-07	1.57E-06	
81	1	Surface	Nickel	mg/kg	7.29E+01	7.13E-07	2.68E-06	4.60E-10	
81	1	Surface	PCB, Total	mg/kg	1.60E+02	1.56E-06	2.06E-05	1.70E-06	
81	1	Surface	Silver	mg/kg	2.70E+00	2.64E-08	9.93E-08	1.70E-11	
81	1	Surface	Total PAH	mg/kg	5.53E-01	5.41E-09	6.61E-08	2.58E-10	
81	1	Surface	Uranium	mg/kg	6.50E+03	6.36E-05	2.99E-04	4.10E-08	
81	1	Surface	Uranium-238	pCi/g	2.29E+00	4.00E+01		2.58E-02	5.84E-01
99	1	Surface	Chromium	mg/kg	5.51E+01	5.39E-07	2.53E-06	3.48E-10	
99	1	Surface	Cobalt-60	pCi/g	1.19E-02	2.08E-01		1.34E-04	3.04E-03
99	1	Surface	Mercury	mg/kg	9.53E+00	9.32E-08	4.38E-07	1.79E-06	
99	1	Surface	Nickel	mg/kg	7.02E+01	6.87E-07	2.58E-06	4.43E-10	
99	1	Surface	Silver	mg/kg	1.03E+01	1.01E-07	3.79E-07	6.50E-11	
99	1	Surface	Uranium-238	pCi/g	9.45E-01	1.65E+01		1.07E-02	2.42E-01
138	1	Surface	Antimony	mg/kg	5.39E+00	5.28E-08	2.48E-07	3.41E-11	
138	1	Surface	Arsenic	mg/kg	1.06E+01	1.04E-07	2.93E-07	6.70E-11	
138	1	Surface	Cadmium	mg/kg	5.42E+00	5.30E-08	4.99E-09	3.42E-11	
138	1	Surface	Chromium	mg/kg	5.39E+01	5.27E-07	2.48E-06	3.40E-10	
138	1	Surface	Mercury	mg/kg	1.30E+01	1.27E-07	5.97E-07	2.44E-06	
138	1	Surface	Nickel	mg/kg	7.04E+01	6.89E-07	2.59E-06	4.44E-10	
138	1	Surface	PCB, Total	mg/kg	5.00E-01	4.89E-09	6.44E-08	5.32E-09	
138	1	Surface	Silver	mg/kg	1.01E+01	9.87E-08	3.71E-07	6.37E-11	
138	1	Surface	Total PAH	mg/kg	9.74E-02	9.53E-10	1.16E-08	4.55E-11	
138	2	Surface	Nickel	mg/kg	7.99E+01	7.81E-07	2.94E-06	5.04E-10	
138	2	Surface	PCB, Total	mg/kg	9.20E-02	9.00E-10	1.18E-08	9.79E-10	
138	2	Surface	Silver	mg/kg	1.04E+01	1.02E-07	3.84E-07	6.59E-11	
138	2	Surface	Total PAH	mg/kg	3.84E-02	3.76E-10	4.59E-09	1.79E-11	
153	1	Surface	PCB, Total	mg/kg	5.09E-01	4.98E-09	6.55E-08	5.42E-09	
153	1	Surface	Total PAH	mg/kg	8.69E-02	8.50E-10	1.04E-08	4.06E-11	
154	1	Surface	Arsenic	mg/kg	1.52E+01	1.48E-07	4.19E-07	9.58E-11	
154	1	Surface	Chromium	mg/kg	4.28E+01	4.18E-07	1.97E-06	2.70E-10	
154	1	Surface	Nickel	mg/kg	9.89E+01	9.67E-07	3.64E-06	6.24E-10	
154	1	Surface	PCB, Total	mg/kg	3.20E+00	3.13E-08	4.12E-07	3.41E-08	
154	1	Surface	Total PAH	mg/kg	1.04E+00	1.02E-08	1.24E-07	4.86E-10	
154	1	Surface	Uranium	mg/kg	3.82E+01	3.74E-07	1.76E-06	2.41E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
154	1	Surface	Uranium-238	pCi/g	3.06E+00	5.36E+01		3.45E-02	7.82E-01
154	2	Surface	PCB, Total	mg/kg	4.00E-01	3.91E-09	5.15E-08	4.26E-09	
155	1	Surface	Antimony	mg/kg	3.65E+00	3.58E-08	1.68E-07	2.31E-11	
155	1	Surface	Chromium	mg/kg	3.47E+01	3.40E-07	1.60E-06	2.19E-10	
155	1	Surface	Neptunium-237	pCi/g	1.03E-01	1.80E+00		1.16E-03	2.63E-02
155	1	Surface	Nickel	mg/kg	7.65E+01	7.49E-07	2.82E-06	4.83E-10	
155	1	Surface	PCB, Total	mg/kg	9.20E+00	9.00E-08	1.18E-06	9.79E-08	
155	1	Surface	Silver	mg/kg	1.11E+01	1.08E-07	4.08E-07	6.99E-11	
156	1	Surface	Chromium	mg/kg	4.90E+01	4.80E-07	2.25E-06	3.10E-10	
156	1	Surface	Manganese	mg/kg	2.83E+03	2.77E-05	1.04E-04	1.79E-08	
156	1	Surface	Mercury	mg/kg	9.87E+00	9.66E-08	4.54E-07	1.86E-06	
156	1	Surface	Nickel	mg/kg	6.16E+01	6.03E-07	2.27E-06	3.89E-10	
156	1	Surface	PCB, Total	mg/kg	3.00E-01	2.94E-09	3.86E-08	3.19E-09	
156	1	Surface	Total PAH	mg/kg	8.26E-02	8.08E-10	9.88E-09	3.86E-11	
156	1	Surface	Uranium	mg/kg	2.32E+01	2.27E-07	1.07E-06	1.46E-10	
156	1	Surface	Uranium-238	pCi/g	2.19E+00	3.83E+01		2.47E-02	5.60E-01
158	1	Surface	Antimony	mg/kg	5.23E-01	5.12E-09	2.41E-08	3.30E-12	
158	1	Surface	Arsenic	mg/kg	1.01E+01	9.90E-08	2.79E-07	6.39E-11	
158	1	Surface	Barium	mg/kg	2.19E+02	2.14E-06	1.01E-05	1.38E-09	
158	1	Surface	Chromium	mg/kg	6.07E+01	5.94E-07	2.79E-06	3.83E-10	
158	1	Surface	Cobalt	mg/kg	1.62E+01	1.59E-07	7.46E-07	1.02E-10	
158	1	Surface	Manganese	mg/kg	9.91E+02	9.69E-06	3.64E-05	6.25E-09	
158	1	Surface	Mercury	mg/kg	1.05E+01	1.02E-07	4.81E-07	1.97E-06	
158	1	Surface	Nickel	mg/kg	7.28E+01	7.13E-07	2.68E-06	4.60E-10	
158	1	Surface	Thallium	mg/kg	3.12E-01	3.05E-09	1.43E-08	1.97E-12	
158	1	Surface	Total PAH	mg/kg	3.69E-01	3.61E-09	4.41E-08	1.72E-10	
158	1	Surface	Uranium	mg/kg	2.03E+01	1.99E-07	9.34E-07	1.28E-10	
158	1	Surface	Uranium-235	pCi/g	1.63E-01	2.85E+00		1.84E-03	4.17E-02
158	1	Surface	Uranium-238	pCi/g	3.79E+00	6.63E+01		4.28E-02	9.69E-01
160	1	Surface	Antimony	mg/kg	6.80E-01	6.65E-09	3.13E-08	4.29E-12	
160	1	Surface	Total PAH	mg/kg	5.29E-02	5.18E-10	6.33E-09	2.47E-11	
163	1	Surface	Chromium	mg/kg	4.94E+01	4.84E-07	2.27E-06	3.12E-10	
163	1	Surface	Total PAH	mg/kg	1.63E-01	1.59E-09	1.95E-08	7.61E-11	
165	1	Surface	Antimony	mg/kg	2.20E+00	2.15E-08	1.01E-07	1.39E-11	
165	1	Surface	Arsenic	mg/kg	6.35E+01	6.21E-07	1.75E-06	4.01E-10	
165	1	Surface	Barium	mg/kg	5.84E+02	5.72E-06	2.69E-05	3.69E-09	
165	1	Surface	Beryllium	mg/kg	6.82E-01	6.67E-09	4.39E-09	4.31E-12	
165	1	Surface	Cesium-137	pCi/g	3.47E+00	6.07E+01		3.92E-02	8.88E-01
165	1	Surface	Chromium	mg/kg	3.74E+01	3.66E-07	1.72E-06	2.36E-10	
165	1	Surface	Mercury	mg/kg	3.78E-01	3.70E-09	1.74E-08	7.11E-08	
165	1	Surface	Naphthalene	mg/kg	1.61E+00	1.58E-08	3.70E-07	3.39E-07	
165	1	Surface	Neptunium-237	pCi/g	4.26E-01	7.46E+00		4.81E-03	1.09E-01
165	1	Surface	Nickel	mg/kg	3.47E+01	3.39E-07	1.28E-06	2.19E-10	
165	1	Surface	PCB, Total	mg/kg	8.27E+00	8.09E-08	1.06E-06	8.80E-08	
165	1	Surface	Plutonium-239/240	pCi/g	2.81E+00	4.91E+01		3.17E-02	7.17E-01
165	1	Surface	Silver	mg/kg	3.09E+01	3.03E-07	1.14E-06	1.95E-10	
165	1	Surface	Thorium-230	pCi/g	6.02E+00	1.05E+02		6.79E-02	1.54E+00
165	1	Surface	Total PAH	mg/kg	1.87E+00	1.83E-08	2.23E-07	8.72E-10	
165	1	Surface	Uranium	mg/kg	1.08E+02	1.05E-06	4.94E-06	6.79E-10	
165	1	Surface	Uranium-234	pCi/g	5.76E+01	1.01E+03		6.50E-01	1.47E+01
165	1	Surface	Uranium-235	pCi/g	2.05E+00	3.58E+01		2.31E-02	5.23E-01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
165	1	Surface	Uranium-238	pCi/g	6.41E+01	1.12E+03		7.24E-01	1.64E+01
169	1	Surface	Aluminum	mg/kg	1.42E+04	1.39E-04	6.53E-04	8.96E-08	
169	1	Surface	Antimony	mg/kg	1.30E+00	1.27E-08	5.98E-08	8.21E-12	
169	1	Surface	Arsenic	mg/kg	2.03E+01	1.99E-07	5.60E-07	1.28E-10	
169	1	Surface	Beryllium	mg/kg	8.00E-01	7.83E-09	5.15E-09	5.05E-12	
169	1	Surface	Chromium	mg/kg	2.15E+02	2.10E-06	9.88E-06	1.36E-09	
169	1	Surface	Copper	mg/kg	3.74E+02	3.66E-06	1.72E-05	2.36E-09	
169	1	Surface	Iron	mg/kg	4.16E+04	4.07E-04	1.91E-03	2.62E-07	
169	1	Surface	Mercury	mg/kg	7.87E+00	7.70E-08	3.62E-07	1.48E-06	
169	1	Surface	Nickel	mg/kg	5.49E+02	5.37E-06	2.02E-05	3.46E-09	
169	1	Surface	PCB, Total	mg/kg	1.00E+01	9.78E-08	1.29E-06	1.06E-07	
169	1	Surface	Thallium	mg/kg	4.60E-01	4.50E-09	2.12E-08	2.90E-12	
169	1	Surface	Total PAH	mg/kg	4.59E+00	4.49E-08	5.48E-07	2.14E-09	
169	1	Surface	Uranium	mg/kg	5.03E+01	4.92E-07	2.31E-06	3.18E-10	
169	1	Surface	Uranium-234	pCi/g	6.55E+00	1.15E+02		7.40E-02	1.67E+00
169	1	Surface	Uranium-235	pCi/g	4.60E-01	8.05E+00		5.19E-03	1.18E-01
169	1	Surface	Uranium-238	pCi/g	8.12E+00	1.42E+02		9.17E-02	2.08E+00
170	1	Surface	Neptunium-237	pCi/g	1.15E-01	2.01E+00		1.30E-03	2.94E-02
170	1	Surface	Uranium-238	pCi/g	1.53E+00	2.68E+01		1.73E-02	3.91E-01
176	1	Surface	Arsenic	mg/kg	4.86E+01	4.75E-07	1.34E-06	3.06E-10	
176	1	Surface	Chromium	mg/kg	4.27E+01	4.18E-07	1.97E-06	2.70E-10	
176	1	Surface	Nickel	mg/kg	1.07E+02	1.05E-06	3.94E-06	6.76E-10	
176	1	Surface	Uranium	mg/kg	2.21E+01	2.16E-07	1.02E-06	1.39E-10	
180	1	Surface	Antimony	mg/kg	5.80E-01	5.68E-09	2.67E-08	3.66E-12	
180	1	Surface	Arsenic	mg/kg	7.48E+01	7.32E-07	2.06E-06	4.72E-10	
180	1	Surface	Chromium	mg/kg	5.54E+01	5.42E-07	2.55E-06	3.50E-10	
180	1	Surface	Mercury	mg/kg	8.28E+00	8.10E-08	3.81E-07	1.56E-06	
180	1	Surface	Nickel	mg/kg	8.77E+01	8.58E-07	3.23E-06	5.53E-10	
180	2	Surface	Antimony	mg/kg	4.58E-01	4.48E-09	2.11E-08	2.89E-12	
180	2	Surface	Arsenic	mg/kg	1.27E+01	1.24E-07	3.49E-07	7.99E-11	
180	2	Surface	Chromium	mg/kg	4.46E+01	4.37E-07	2.05E-06	2.82E-10	
180	2	Surface	Nickel	mg/kg	8.42E+01	8.23E-07	3.10E-06	5.31E-10	
180	2	Surface	Total PAH	mg/kg	9.19E-02	8.99E-10	1.10E-08	4.29E-11	
180	3	Surface	Arsenic	mg/kg	1.34E+01	1.31E-07	3.68E-07	8.43E-11	
180	3	Surface	Chromium	mg/kg	4.69E+01	4.59E-07	2.16E-06	2.96E-10	
180	3	Surface	Nickel	mg/kg	6.77E+01	6.63E-07	2.49E-06	4.27E-10	
180	3	Surface	Silver	mg/kg	1.14E+01	1.12E-07	4.19E-07	7.20E-11	
180	4	Surface	Arsenic	mg/kg	1.15E+01	1.13E-07	3.18E-07	7.28E-11	
180	4	Surface	Barium	mg/kg	2.13E+02	2.08E-06	9.80E-06	1.34E-09	
180	4	Surface	Beryllium	mg/kg	1.60E+00	1.57E-08	1.03E-08	1.01E-11	
180	4	Surface	Chromium	mg/kg	6.00E+01	5.87E-07	2.76E-06	3.79E-10	
180	4	Surface	Iron	mg/kg	1.54E+04	1.50E-04	7.07E-04	9.70E-08	
180	4	Surface	Manganese	mg/kg	7.09E+02	6.94E-06	2.61E-05	4.48E-09	
180	4	Surface	Nickel	mg/kg	6.46E+01	6.32E-07	2.38E-06	4.08E-10	
180	4	Surface	Silver	mg/kg	9.68E+00	9.47E-08	3.56E-07	6.11E-11	
180	4	Surface	Total PAH	mg/kg	2.15E-02	2.10E-10	2.57E-09	1.00E-11	
180	4	Surface	Vanadium	mg/kg	4.85E+01	4.75E-07	1.16E-06	3.06E-10	
181	1	Surface	Chromium	mg/kg	2.29E+01	2.24E-07	1.05E-06	1.44E-10	
181	1	Surface	Thallium	mg/kg	3.50E+00	3.42E-08	1.61E-07	2.21E-11	
181	1	Surface	Total PAH	mg/kg	3.43E-02	3.36E-10	4.10E-09	1.60E-11	
194	1	Surface	Antimony	mg/kg	1.50E+00	1.47E-08	6.90E-08	9.47E-12	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	1	Surface	Chromium	mg/kg	3.87E+01	3.79E-07	1.78E-06	2.44E-10	
194	1	Surface	Mercury	mg/kg	6.71E+00	6.57E-08	3.09E-07	1.26E-06	
194	1	Surface	Nickel	mg/kg	5.84E+01	5.72E-07	2.15E-06	3.69E-10	
194	1	Surface	Silver	mg/kg	1.09E+01	1.07E-07	4.02E-07	6.90E-11	
194	2	Surface	Chromium	mg/kg	5.96E+01	5.83E-07	2.74E-06	3.76E-10	
194	2	Surface	Silver	mg/kg	1.31E+01	1.28E-07	4.83E-07	8.29E-11	
194	2	Surface	Uranium	mg/kg	2.28E+01	2.23E-07	1.05E-06	1.44E-10	
194	2	Surface	Uranium-238	pCi/g	1.42E+00	2.49E+01		1.60E-02	3.63E-01
194	3	Surface	Antimony	mg/kg	6.90E-01	6.75E-09	3.17E-08	4.36E-12	
194	3	Surface	Arsenic	mg/kg	1.46E+01	1.43E-07	4.04E-07	9.24E-11	
194	3	Surface	Chromium	mg/kg	3.90E+01	3.81E-07	1.79E-06	2.46E-10	
194	3	Surface	Nickel	mg/kg	6.40E+01	6.27E-07	2.36E-06	4.04E-10	
194	3	Surface	Total PAH	mg/kg	3.93E-02	3.85E-10	4.70E-09	1.83E-11	
194	3	Surface	Uranium-238	pCi/g	1.28E+00	2.25E+01		1.45E-02	3.28E-01
194	4	Surface	Chromium	mg/kg	4.84E+01	4.74E-07	2.23E-06	3.06E-10	
194	4	Surface	Mercury	mg/kg	8.92E+00	8.73E-08	4.10E-07	1.68E-06	
194	4	Surface	Nickel	mg/kg	6.91E+01	6.76E-07	2.54E-06	4.36E-10	
194	4	Surface	Silver	mg/kg	1.18E+01	1.15E-07	4.33E-07	7.44E-11	
194	4	Surface	Total PAH	mg/kg	7.30E-02	7.14E-10	8.72E-09	3.41E-11	
194	4	Surface	Uranium-238	pCi/g	1.73E+00	3.03E+01		1.95E-02	4.42E-01
194	5	Surface	Chromium	mg/kg	4.58E+01	4.48E-07	2.11E-06	2.89E-10	
194	5	Surface	Mercury	mg/kg	8.69E+00	8.50E-08	4.00E-07	1.64E-06	
194	5	Surface	Nickel	mg/kg	7.54E+01	7.38E-07	2.78E-06	4.76E-10	
194	5	Surface	Silver	mg/kg	1.25E+01	1.22E-07	4.58E-07	7.86E-11	
194	5	Surface	Total PAH	mg/kg	2.37E-02	2.32E-10	2.83E-09	1.11E-11	
194	5	Surface	Uranium-238	pCi/g	1.38E+00	2.42E+01		1.56E-02	3.53E-01
194	6	Surface	Chromium	mg/kg	3.70E+01	3.62E-07	1.70E-06	2.34E-10	
194	6	Surface	Manganese	mg/kg	1.08E+03	1.06E-05	3.97E-05	6.82E-09	
194	6	Surface	Nickel	mg/kg	8.06E+01	7.89E-07	2.97E-06	5.09E-10	
194	6	Surface	Silver	mg/kg	9.89E+00	9.68E-08	3.64E-07	6.24E-11	
194	6	Surface	Uranium-238	pCi/g	1.32E+00	2.31E+01		1.49E-02	3.38E-01
194	7	Surface	Chromium	mg/kg	5.32E+01	5.21E-07	2.45E-06	3.36E-10	
194	7	Surface	Nickel	mg/kg	7.71E+01	7.55E-07	2.84E-06	4.87E-10	
194	7	Surface	Silver	mg/kg	1.25E+01	1.22E-07	4.60E-07	7.89E-11	
194	8	Surface	Chromium	mg/kg	5.36E+01	5.24E-07	2.46E-06	3.38E-10	
194	8	Surface	Manganese	mg/kg	8.00E+02	7.83E-06	2.94E-05	5.05E-09	
194	8	Surface	Total PAH	mg/kg	4.85E-01	4.75E-09	5.80E-08	2.26E-10	
194	8	Surface	Uranium-238	pCi/g	1.39E+00	2.43E+01		1.57E-02	3.55E-01
194	9	Surface	Arsenic	mg/kg	1.14E+01	1.12E-07	3.15E-07	7.21E-11	
194	9	Surface	Chromium	mg/kg	5.17E+01	5.05E-07	2.38E-06	3.26E-10	
194	10	Surface	Arsenic	mg/kg	1.22E+01	1.19E-07	3.36E-07	7.68E-11	
194	10	Surface	Cesium-137	pCi/g	5.81E-01	1.02E+01		6.56E-03	1.49E-01
194	10	Surface	Chromium	mg/kg	3.63E+01	3.55E-07	1.67E-06	2.29E-10	
194	10	Surface	Nickel	mg/kg	7.60E+01	7.44E-07	2.80E-06	4.80E-10	
194	10	Surface	Total PAH	mg/kg	2.57E-01	2.52E-09	3.07E-08	1.20E-10	
194	10	Surface	Uranium-238	pCi/g	1.49E+00	2.61E+01		1.68E-02	3.81E-01
194	11	Surface	Chromium	mg/kg	3.27E+01	3.20E-07	1.50E-06	2.06E-10	
194	11	Surface	Mercury	mg/kg	8.09E+00	7.92E-08	3.72E-07	1.52E-06	
194	11	Surface	Nickel	mg/kg	1.01E+02	9.85E-07	3.70E-06	6.36E-10	
194	11	Surface	PCB, Total	mg/kg	8.40E-02	8.22E-10	1.08E-08	8.94E-10	
194	11	Surface	Silver	mg/kg	1.33E+01	1.30E-07	4.89E-07	8.39E-11	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	11	Surface	Total PAH	mg/kg	7.95E-02	7.78E-10	9.51E-09	3.71E-11	
194	12	Surface	Chromium	mg/kg	6.34E+01	6.20E-07	2.91E-06	4.00E-10	
194	12	Surface	Nickel	mg/kg	7.86E+01	7.69E-07	2.89E-06	4.96E-10	
194	12	Surface	Silver	mg/kg	1.20E+01	1.17E-07	4.41E-07	7.56E-11	
194	12	Surface	Total PAH	mg/kg	8.91E-01	8.72E-09	1.07E-07	4.16E-10	
194	13	Surface	Chromium	mg/kg	4.77E+01	4.66E-07	2.19E-06	3.01E-10	
194	13	Surface	Nickel	mg/kg	6.03E+01	5.90E-07	2.22E-06	3.81E-10	
194	13	Surface	Total PAH	mg/kg	9.13E-02	8.94E-10	1.09E-08	4.26E-11	
194	14	Surface	Chromium	mg/kg	5.21E+01	5.10E-07	2.40E-06	3.29E-10	
194	14	Surface	Mercury	mg/kg	8.14E+00	7.96E-08	3.74E-07	1.53E-06	
194	15	Surface	Chromium	mg/kg	5.33E+01	5.22E-07	2.45E-06	3.37E-10	
194	15	Surface	Silver	mg/kg	1.03E+01	1.01E-07	3.79E-07	6.51E-11	
194	16	Surface	Antimony	mg/kg	7.40E-01	7.24E-09	3.40E-08	4.67E-12	
194	16	Surface	Arsenic	mg/kg	1.15E+01	1.13E-07	3.18E-07	7.27E-11	
194	16	Surface	Beryllium	mg/kg	8.70E-01	8.51E-09	5.60E-09	5.49E-12	
194	16	Surface	Chromium	mg/kg	5.32E+01	5.21E-07	2.45E-06	3.36E-10	
194	16	Surface	Nickel	mg/kg	7.20E+01	7.05E-07	2.65E-06	4.55E-10	
194	16	Surface	Thallium	mg/kg	6.30E-01	6.16E-09	2.90E-08	3.98E-12	
194	16	Surface	Vanadium	mg/kg	4.11E+01	4.02E-07	9.83E-07	2.59E-10	
194	17	Surface	Arsenic	mg/kg	1.16E+01	1.13E-07	3.19E-07	7.29E-11	
194	17	Surface	Cadmium	mg/kg	1.10E+00	1.08E-08	1.01E-09	6.94E-12	
194	17	Surface	Chromium	mg/kg	4.65E+01	4.55E-07	2.14E-06	2.93E-10	
194	17	Surface	Total PAH	mg/kg	1.59E-01	1.55E-09	1.90E-08	7.41E-11	
194	18	Surface	Arsenic	mg/kg	1.06E+01	1.03E-07	2.92E-07	6.67E-11	
194	18	Surface	Beryllium	mg/kg	7.40E-01	7.24E-09	4.76E-09	4.67E-12	
194	18	Surface	Chromium	mg/kg	6.85E+01	6.70E-07	3.15E-06	4.32E-10	
194	18	Surface	Nickel	mg/kg	5.78E+01	5.65E-07	2.13E-06	3.65E-10	
194	19	Surface	Arsenic	mg/kg	1.07E+01	1.05E-07	2.95E-07	6.75E-11	
194	19	Surface	Chromium	mg/kg	4.84E+01	4.73E-07	2.22E-06	3.05E-10	
194	19	Surface	Nickel	mg/kg	5.84E+01	5.71E-07	2.15E-06	3.69E-10	
194	20	Surface	Arsenic	mg/kg	1.18E+01	1.16E-07	3.27E-07	7.47E-11	
194	20	Surface	Barium	mg/kg	3.26E+02	3.19E-06	1.50E-05	2.06E-09	
194	20	Surface	Beryllium	mg/kg	1.10E+00	1.08E-08	7.08E-09	6.94E-12	
194	20	Surface	Chromium	mg/kg	5.24E+01	5.12E-07	2.41E-06	3.31E-10	
194	20	Surface	Cobalt	mg/kg	2.11E+01	2.06E-07	9.70E-07	1.33E-10	
194	20	Surface	Manganese	mg/kg	2.29E+03	2.24E-05	8.44E-05	1.45E-08	
194	20	Surface	Mercury	mg/kg	7.28E+00	7.12E-08	3.35E-07	1.37E-06	
194	20	Surface	Nickel	mg/kg	6.57E+01	6.43E-07	2.42E-06	4.15E-10	
194	20	Surface	Silver	mg/kg	1.22E+01	1.20E-07	4.50E-07	7.71E-11	
194	20	Surface	Total PAH	mg/kg	3.10E-02	3.03E-10	3.71E-09	1.45E-11	
194	20	Surface	Vanadium	mg/kg	3.81E+01	3.73E-07	9.11E-07	2.41E-10	
194	21	Surface	Antimony	mg/kg	9.30E-01	9.10E-09	4.28E-08	5.87E-12	
194	21	Surface	Chromium	mg/kg	5.51E+01	5.39E-07	2.53E-06	3.48E-10	
194	21	Surface	Mercury	mg/kg	6.62E+00	6.48E-08	3.04E-07	1.25E-06	
194	21	Surface	Nickel	mg/kg	7.01E+01	6.86E-07	2.58E-06	4.43E-10	
194	21	Surface	Thallium	mg/kg	6.40E-01	6.26E-09	2.94E-08	4.04E-12	
194	22	Surface	Chromium	mg/kg	4.90E+01	4.79E-07	2.25E-06	3.09E-10	
194	22	Surface	Manganese	mg/kg	8.19E+02	8.01E-06	3.01E-05	5.17E-09	
194	22	Surface	PCB, Total	mg/kg	1.09E+01	1.07E-07	1.41E-06	1.16E-07	
194	23	Surface	Arsenic	mg/kg	1.16E+01	1.13E-07	3.19E-07	7.29E-11	
194	23	Surface	Chromium	mg/kg	6.60E+01	6.45E-07	3.03E-06	4.16E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	23	Surface	Iron	mg/kg	1.83E+04	1.79E-04	8.41E-04	1.15E-07	
194	23	Surface	Nickel	mg/kg	8.77E+01	8.58E-07	3.23E-06	5.54E-10	
194	23	Surface	Silver	mg/kg	1.15E+01	1.12E-07	4.22E-07	7.25E-11	
194	24	Surface	Chromium	mg/kg	5.02E+01	4.91E-07	2.31E-06	3.17E-10	
194	24	Surface	Nickel	mg/kg	7.08E+01	6.92E-07	2.60E-06	4.47E-10	
194	24	Surface	Total PAH	mg/kg	2.28E-02	2.23E-10	2.73E-09	1.06E-11	
194	25	Surface	Barium	mg/kg	3.00E+02	2.94E-06	1.38E-05	1.89E-09	
194	25	Surface	Chromium	mg/kg	6.13E+01	5.99E-07	2.82E-06	3.87E-10	
194	25	Surface	Manganese	mg/kg	9.96E+02	9.74E-06	3.66E-05	6.29E-09	
194	25	Surface	Nickel	mg/kg	6.33E+01	6.20E-07	2.33E-06	4.00E-10	
194	25	Surface	Total PAH	mg/kg	2.06E-02	2.02E-10	2.46E-09	9.62E-12	
194	26	Surface	Beryllium	mg/kg	7.00E-01	6.85E-09	4.51E-09	4.42E-12	
194	26	Surface	Chromium	mg/kg	4.18E+01	4.09E-07	1.92E-06	2.64E-10	
194	26	Surface	Silver	mg/kg	1.03E+01	1.00E-07	3.78E-07	6.48E-11	
194	26	Surface	Thallium	mg/kg	3.90E-01	3.82E-09	1.79E-08	2.46E-12	
194	27	Surface	Chromium	mg/kg	5.22E+01	5.10E-07	2.40E-06	3.29E-10	
194	27	Surface	Nickel	mg/kg	6.55E+01	6.41E-07	2.41E-06	4.13E-10	
194	27	Surface	Silver	mg/kg	1.01E+01	9.90E-08	3.72E-07	6.39E-11	
194	28	Surface	Arsenic	mg/kg	1.20E+01	1.18E-07	3.32E-07	7.59E-11	
194	28	Surface	Beryllium	mg/kg	7.10E-01	6.95E-09	4.57E-09	4.48E-12	
194	28	Surface	Chromium	mg/kg	6.07E+01	5.94E-07	2.79E-06	3.83E-10	
194	28	Surface	Manganese	mg/kg	1.14E+03	1.11E-05	4.19E-05	7.18E-09	
194	28	Surface	Nickel	mg/kg	6.95E+01	6.80E-07	2.56E-06	4.38E-10	
194	28	Surface	Silver	mg/kg	1.08E+01	1.06E-07	3.97E-07	6.81E-11	
194	28	Surface	Vanadium	mg/kg	4.06E+01	3.97E-07	9.71E-07	2.56E-10	
194	29	Surface	Antimony	mg/kg	7.10E-01	6.95E-09	3.27E-08	4.48E-12	
194	29	Surface	Chromium	mg/kg	5.06E+01	4.95E-07	2.33E-06	3.19E-10	
194	29	Surface	Nickel	mg/kg	6.51E+01	6.37E-07	2.40E-06	4.11E-10	
194	29	Surface	Silver	mg/kg	9.77E+00	9.56E-08	3.59E-07	6.17E-11	
194	30	Surface	Chromium	mg/kg	5.66E+01	5.54E-07	2.60E-06	3.57E-10	
194	30	Surface	Mercury	mg/kg	8.80E+00	8.61E-08	4.05E-07	1.66E-06	
194	30	Surface	Nickel	mg/kg	6.99E+01	6.84E-07	2.57E-06	4.41E-10	
194	30	Surface	Silver	mg/kg	9.76E+00	9.55E-08	3.59E-07	6.16E-11	
194	31	Surface	Cesium-137	pCi/g	5.70E-01	9.98E+00		6.44E-03	1.46E-01
194	31	Surface	Uranium-238	pCi/g	1.72E+00	3.01E+01		1.94E-02	4.40E-01
195	1	Surface	Chromium	mg/kg	6.33E+01	6.19E-07	2.91E-06	3.99E-10	
195	1	Surface	Nickel	mg/kg	7.02E+01	6.87E-07	2.58E-06	4.43E-10	
195	1	Surface	Silver	mg/kg	9.37E+00	9.17E-08	3.45E-07	5.92E-11	
195	2	Surface	Chromium	mg/kg	4.52E+01	4.42E-07	2.08E-06	2.85E-10	
195	2	Surface	Silver	mg/kg	9.48E+00	9.28E-08	3.49E-07	5.98E-11	
195	2	Surface	Total PAH	mg/kg	2.68E-02	2.62E-10	3.20E-09	1.25E-11	
195	3	Surface	Chromium	mg/kg	5.03E+01	4.92E-07	2.31E-06	3.18E-10	
195	3	Surface	Nickel	mg/kg	5.22E+01	5.10E-07	1.92E-06	3.29E-10	
195	3	Surface	Total PAH	mg/kg	4.06E-02	3.97E-10	4.85E-09	1.90E-11	
195	4	Surface	Chromium	mg/kg	5.29E+01	5.18E-07	2.43E-06	3.34E-10	
195	4	Surface	Nickel	mg/kg	6.23E+01	6.09E-07	2.29E-06	3.93E-10	
195	5	Surface	Chromium	mg/kg	5.74E+01	5.62E-07	2.64E-06	3.62E-10	
195	5	Surface	Nickel	mg/kg	8.11E+01	7.94E-07	2.98E-06	5.12E-10	
195	5	Surface	Total PAH	mg/kg	2.40E-02	2.35E-10	2.87E-09	1.12E-11	
195	6	Surface	Chromium	mg/kg	4.45E+01	4.36E-07	2.05E-06	2.81E-10	
195	6	Surface	Nickel	mg/kg	8.71E+01	8.52E-07	3.20E-06	5.50E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
195	6	Surface	Total PAH	mg/kg	2.48E-01	2.42E-09	2.96E-08	1.16E-10	
195	7	Surface	Chromium	mg/kg	4.93E+01	4.82E-07	2.27E-06	3.11E-10	
195	7	Surface	Silver	mg/kg	8.06E+00	7.89E-08	2.97E-07	5.09E-11	
195	8	Surface	Arsenic	mg/kg	1.16E+01	1.13E-07	3.19E-07	7.30E-11	
195	8	Surface	Beryllium	mg/kg	7.40E-01	7.24E-09	4.76E-09	4.67E-12	
195	8	Surface	Chromium	mg/kg	6.79E+01	6.65E-07	3.12E-06	4.29E-10	
195	8	Surface	Cobalt	mg/kg	1.82E+01	1.78E-07	8.37E-07	1.15E-10	
195	8	Surface	Nickel	mg/kg	7.01E+01	6.86E-07	2.58E-06	4.43E-10	
195	8	Surface	Total PAH	mg/kg	2.16E-01	2.11E-09	2.58E-08	1.01E-10	
195	8	Surface	Vanadium	mg/kg	4.04E+01	3.95E-07	9.66E-07	2.55E-10	
195	9	Surface	Chromium	mg/kg	6.08E+01	5.95E-07	2.80E-06	3.84E-10	
195	9	Surface	Nickel	mg/kg	7.93E+01	7.76E-07	2.92E-06	5.00E-10	
195	10	Surface	Chromium	mg/kg	4.51E+01	4.41E-07	2.07E-06	2.85E-10	
195	10	Surface	Nickel	mg/kg	7.40E+01	7.24E-07	2.72E-06	4.67E-10	
195	10	Surface	Silver	mg/kg	1.31E+01	1.28E-07	4.82E-07	8.28E-11	
195	11	Surface	Aluminum	mg/kg	2.81E+04	2.75E-04	1.29E-03	1.77E-07	
195	11	Surface	Arsenic	mg/kg	1.35E+01	1.32E-07	3.71E-07	8.50E-11	
195	11	Surface	Barium	mg/kg	4.53E+02	4.43E-06	2.08E-05	2.86E-09	
195	11	Surface	Chromium	mg/kg	5.05E+01	4.94E-07	2.32E-06	3.19E-10	
195	11	Surface	Cobalt	mg/kg	2.77E+01	2.71E-07	1.27E-06	1.75E-10	
195	11	Surface	Iron	mg/kg	1.97E+04	1.93E-04	9.06E-04	1.24E-07	
195	11	Surface	Nickel	mg/kg	6.77E+01	6.62E-07	2.49E-06	4.27E-10	
195	11	Surface	Thallium	mg/kg	6.60E-01	6.46E-09	3.04E-08	4.17E-12	
195	11	Surface	Vanadium	mg/kg	7.97E+01	7.80E-07	1.91E-06	5.03E-10	
195	12	Surface	Beryllium	mg/kg	7.50E-01	7.34E-09	4.83E-09	4.73E-12	
195	12	Surface	Chromium	mg/kg	7.04E+01	6.89E-07	3.24E-06	4.44E-10	
195	12	Surface	Nickel	mg/kg	6.78E+01	6.63E-07	2.49E-06	4.28E-10	
195	13	Surface	Chromium	mg/kg	6.55E+01	6.41E-07	3.01E-06	4.14E-10	
195	13	Surface	Nickel	mg/kg	6.91E+01	6.76E-07	2.54E-06	4.36E-10	
195	14	Surface	Chromium	mg/kg	5.94E+01	5.82E-07	2.73E-06	3.75E-10	
195	14	Surface	Nickel	mg/kg	7.04E+01	6.88E-07	2.59E-06	4.44E-10	
195	15	Surface	Chromium	mg/kg	4.82E+01	4.71E-07	2.22E-06	3.04E-10	
195	16	Surface	Chromium	mg/kg	4.45E+01	4.35E-07	2.04E-06	2.81E-10	
195	16	Surface	Nickel	mg/kg	8.16E+01	7.98E-07	3.00E-06	5.15E-10	
195	17	Surface	Chromium	mg/kg	8.22E+01	8.04E-07	3.78E-06	5.19E-10	
195	17	Surface	Mercury	mg/kg	4.17E-01	4.08E-09	1.92E-08	7.85E-08	
195	17	Surface	Nickel	mg/kg	5.93E+01	5.81E-07	2.18E-06	3.75E-10	
195	17	Surface	PCB, Total	mg/kg	7.40E-01	7.24E-09	9.53E-08	7.88E-09	
195	17	Surface	Silver	mg/kg	1.01E+01	9.92E-08	3.73E-07	6.40E-11	
195	17	Surface	Thallium	mg/kg	5.40E-01	5.28E-09	2.48E-08	3.41E-12	
195	17	Surface	Total PAH	mg/kg	3.16E-01	3.09E-09	3.78E-08	1.47E-10	
195	17	Surface	Uranium-235	pCi/g	1.32E-01	2.31E+00		1.49E-03	3.38E-02
195	17	Surface	Uranium-238	pCi/g	2.48E+00	4.34E+01		2.80E-02	6.34E-01
196	1	Surface	Antimony	mg/kg	5.90E-01	5.77E-09	2.71E-08	3.72E-12	
196	1	Surface	Chromium	mg/kg	1.96E+01	1.92E-07	9.01E-07	1.24E-10	
196	1	Surface	Neptunium-237	pCi/g	3.11E-01	5.44E+00		3.51E-03	7.95E-02
196	1	Surface	Nickel	mg/kg	5.56E+02	5.44E-06	2.05E-05	3.51E-09	
196	1	Surface	Uranium	mg/kg	2.33E+01	2.28E-07	1.07E-06	1.47E-10	
196	1	Surface	Uranium-238	pCi/g	1.54E+00	2.70E+01		1.74E-02	3.94E-01
196	2	Surface	Barium	mg/kg	2.02E+02	1.98E-06	9.29E-06	1.28E-09	
196	2	Surface	Cadmium	mg/kg	2.53E+00	2.48E-08	2.33E-09	1.60E-11	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
196	2	Surface	Chromium	mg/kg	2.07E+01	2.03E-07	9.52E-07	1.31E-10	
196	2	Surface	Nickel	mg/kg	7.36E+01	7.20E-07	2.71E-06	4.65E-10	
196	2	Surface	PCB, Total	mg/kg	1.51E+00	1.48E-08	1.94E-07	1.61E-08	
196	2	Surface	Total PAH	mg/kg	6.80E-01	6.65E-09	8.13E-08	3.17E-10	
196	2	Surface	Uranium-238	pCi/g	2.21E+00	3.87E+01		2.50E-02	5.65E-01
200	1	Surface	Antimony	mg/kg	5.60E-01	5.48E-09	2.58E-08	3.54E-12	
200	1	Surface	Cesium-137	pCi/g	5.74E-01	1.00E+01		6.48E-03	1.47E-01
200	1	Surface	Chromium	mg/kg	5.75E+01	5.63E-07	2.65E-06	3.63E-10	
200	1	Surface	Mercury	mg/kg	6.71E+00	6.57E-08	3.09E-07	1.26E-06	
200	1	Surface	Nickel	mg/kg	1.28E+02	1.25E-06	4.71E-06	8.08E-10	
200	1	Surface	PCB, Total	mg/kg	2.60E+00	2.54E-08	3.35E-07	2.77E-08	
200	1	Surface	Total PAH	mg/kg	2.84E-02	2.78E-10	3.40E-09	1.33E-11	
200	1	Surface	Uranium	mg/kg	2.73E+01	2.67E-07	1.26E-06	1.72E-10	
200	1	Surface	Uranium-235	pCi/g	1.43E-01	2.50E+00		1.61E-03	3.66E-02
200	1	Surface	Uranium-238	pCi/g	3.58E+00	6.26E+01		4.04E-02	9.15E-01
204	1	Surface	Aluminum	mg/kg	1.48E+04	1.45E-04	6.81E-04	9.34E-08	
204	1	Surface	Beryllium	mg/kg	1.36E+00	1.33E-08	8.76E-09	8.59E-12	
204	1	Surface	Cadmium	mg/kg	2.73E+00	2.67E-08	2.51E-09	1.72E-11	
204	1	Surface	Chromium	mg/kg	7.40E+01	7.24E-07	3.40E-06	4.67E-10	
204	1	Surface	Iron	mg/kg	4.19E+04	4.10E-04	1.93E-03	2.65E-07	
204	1	Surface	PCB, Total	mg/kg	2.53E+00	2.48E-08	3.26E-07	2.69E-08	
204	1	Surface	Uranium-235	pCi/g	1.80E-01	3.15E+00		2.03E-03	4.60E-02
204	1	Surface	Uranium-238	pCi/g	5.20E+00	9.10E+01		5.87E-02	1.33E+00
204	1	Surface	Vanadium	mg/kg	7.55E+01	7.39E-07	1.81E-06	4.77E-10	
204	2	Surface	Aluminum	mg/kg	1.37E+04	1.34E-04	6.30E-04	8.65E-08	
204	2	Surface	Chromium	mg/kg	1.80E+01	1.76E-07	8.28E-07	1.14E-10	
204	2	Surface	PCB, Total	mg/kg	1.70E-01	1.66E-09	2.19E-08	1.81E-09	
204	3	Surface	Chromium	mg/kg	2.06E+01	2.02E-07	9.47E-07	1.30E-10	
204	3	Surface	Uranium-238	pCi/g	2.50E+00	4.38E+01		2.82E-02	6.39E-01
204	4	Surface	Antimony	mg/kg	1.10E+00	1.08E-08	5.06E-08	6.94E-12	
204	4	Surface	Chromium	mg/kg	2.89E+01	2.83E-07	1.33E-06	1.82E-10	
204	4	Surface	Uranium-235	pCi/g	1.88E-01	3.29E+00		2.12E-03	4.80E-02
204	4	Surface	Uranium-238	pCi/g	9.72E+00	1.70E+02		1.10E-01	2.49E+00
204	18	Surface	Cesium-137	pCi/g	6.30E-01	1.10E+01		7.11E-03	1.61E-01
204	18	Surface	Uranium	mg/kg	1.60E+01	1.57E-07	7.36E-07	1.01E-10	
204	18	Surface	Uranium-235	pCi/g	1.25E-01	2.19E+00		1.41E-03	3.20E-02
204	18	Surface	Uranium-238	pCi/g	5.37E+00	9.40E+01		6.06E-02	1.37E+00
204	23	Surface	Americium-241	pCi/g	3.71E+00	6.49E+01		4.19E-02	9.48E-01
204	23	Surface	Beryllium	mg/kg	1.33E+00	1.30E-08	8.56E-09	8.40E-12	
204	23	Surface	Cesium-137	pCi/g	1.17E+00	2.05E+01		1.32E-02	3.00E-01
204	23	Surface	Chromium	mg/kg	1.75E+02	1.71E-06	8.05E-06	1.10E-09	
204	23	Surface	Cobalt-60	pCi/g	1.23E-02	2.14E-01		1.38E-04	3.13E-03
204	23	Surface	PCB, Total	mg/kg	7.90E+01	7.73E-07	1.02E-05	8.41E-07	
204	23	Surface	Uranium	mg/kg	1.31E+04	1.28E-04	6.01E-04	8.25E-08	
204	23	Surface	Uranium-234	pCi/g	4.45E+02	7.79E+03		5.02E+00	1.14E+02
204	23	Surface	Uranium-235	pCi/g	5.70E+01	9.98E+02		6.44E-01	1.46E+01
204	23	Surface	Uranium-238	pCi/g	4.39E+03	7.68E+04		4.95E+01	1.12E+03
211	1	Surface	Chromium	mg/kg	4.48E+01	4.38E-07	2.06E-06	2.82E-10	
211	1	Surface	Neptunium-237	pCi/g	1.46E-01	2.56E+00		1.65E-03	3.73E-02
211	1	Surface	PCB, Total	mg/kg	3.60E-01	3.52E-09	4.64E-08	3.83E-09	
211	1	Surface	Total PAH	mg/kg	1.04E-01	1.02E-09	1.24E-08	4.85E-11	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
211	1	Surface	Uranium	mg/kg	2.19E+01	2.14E-07	1.01E-06	1.38E-10	
211	1	Surface	Uranium-235	pCi/g	2.12E-01	3.71E+00		2.39E-03	5.42E-02
211	1	Surface	Uranium-238	pCi/g	5.84E+00	1.02E+02		6.59E-02	1.49E+00
212	1	Surface	Arsenic	mg/kg	1.44E+01	1.41E-07	3.98E-07	9.10E-11	
212	1	Surface	Beryllium	mg/kg	8.10E-01	7.93E-09	5.22E-09	5.11E-12	
212	1	Surface	Cesium-137	pCi/g	6.01E-01	1.05E+01		6.79E-03	1.54E-01
212	1	Surface	Chromium	mg/kg	3.58E+01	3.50E-07	1.65E-06	2.26E-10	
212	1	Surface	Cobalt-60	pCi/g	8.76E-03	1.53E-01		9.89E-05	2.24E-03
212	1	Surface	Iron	mg/kg	4.14E+04	4.05E-04	1.90E-03	2.61E-07	
212	1	Surface	Neptunium-237	pCi/g	4.00E+00	7.00E+01		4.52E-02	1.02E+00
212	1	Surface	Nickel	mg/kg	8.69E+01	8.50E-07	3.20E-06	5.49E-10	
212	1	Surface	PCB, Total	mg/kg	1.80E-01	1.76E-09	2.32E-08	1.92E-09	
212	1	Surface	Plutonium-239/240	pCi/g	6.71E+00	1.17E+02		7.58E-02	1.72E+00
212	1	Surface	Thorium-230	pCi/g	2.60E+02	4.55E+03		2.94E+00	6.65E+01
212	1	Surface	Uranium	mg/kg	2.30E+01	2.25E-07	1.06E-06	1.45E-10	
212	1	Surface	Uranium-235	pCi/g	2.09E-01	3.66E+00		2.36E-03	5.34E-02
212	1	Surface	Uranium-238	pCi/g	3.17E+00	5.55E+01		3.58E-02	8.11E-01
213	1	Surface	Antimony	mg/kg	8.50E-01	8.32E-09	3.91E-08	5.37E-12	
213	1	Surface	Chromium	mg/kg	4.78E+01	4.68E-07	2.20E-06	3.02E-10	
213	1	Surface	Nickel	mg/kg	6.67E+01	6.53E-07	2.46E-06	4.21E-10	
213	1	Surface	PCB, Total	mg/kg	7.30E-02	7.14E-10	9.40E-09	7.77E-10	
213	1	Surface	Silver	mg/kg	1.32E+01	1.29E-07	4.85E-07	8.31E-11	
213	1	Surface	Total PAH	mg/kg	1.72E-01	1.68E-09	2.05E-08	8.02E-11	
213	1	Surface	Uranium-238	pCi/g	2.33E+00	4.08E+01		2.63E-02	5.96E-01
213	2	Surface	Chromium	mg/kg	4.48E+01	4.38E-07	2.06E-06	2.83E-10	
213	2	Surface	Nickel	mg/kg	9.10E+01	8.90E-07	3.35E-06	5.74E-10	
213	2	Surface	Silver	mg/kg	1.13E+01	1.10E-07	4.14E-07	7.11E-11	
214	1	Surface	Antimony	mg/kg	5.70E-01	5.58E-09	2.62E-08	3.60E-12	
215	1	Surface	Antimony	mg/kg	6.80E-01	6.65E-09	3.13E-08	4.29E-12	
215	1	Surface	Chromium	mg/kg	5.73E+01	5.61E-07	2.64E-06	3.62E-10	
215	1	Surface	Iron	mg/kg	3.87E+04	3.79E-04	1.78E-03	2.44E-07	
215	1	Surface	Nickel	mg/kg	7.32E+01	7.16E-07	2.69E-06	4.62E-10	
215	1	Surface	Total PAH	mg/kg	8.09E-02	7.91E-10	9.67E-09	3.78E-11	
216	1	Surface	Chromium	mg/kg	2.38E+01	2.33E-07	1.09E-06	1.50E-10	
216	1	Surface	Total PAH	mg/kg	1.49E-01	1.46E-09	1.79E-08	6.97E-11	
216	1	Surface	Uranium-238	pCi/g	1.33E+00	2.33E+01		1.50E-02	3.40E-01
217	1	Surface	Chromium	mg/kg	8.58E+01	8.39E-07	3.94E-06	5.41E-10	
217	1	Surface	Cobalt	mg/kg	1.96E+01	1.91E-07	9.00E-07	1.24E-10	
217	1	Surface	Manganese	mg/kg	7.70E+02	7.53E-06	2.83E-05	4.86E-09	
217	1	Surface	Nickel	mg/kg	8.54E+01	8.36E-07	3.14E-06	5.39E-10	
217	1	Surface	Silver	mg/kg	1.35E+01	1.32E-07	4.95E-07	8.49E-11	
217	1	Surface	Uranium-238	pCi/g	1.15E+00	2.02E+01		1.30E-02	2.95E-01
217	2	Surface	Antimony	mg/kg	1.70E+00	1.66E-08	7.82E-08	1.07E-11	
217	2	Surface	Arsenic	mg/kg	1.12E+01	1.09E-07	3.08E-07	7.05E-11	
217	2	Surface	Chromium	mg/kg	1.02E+02	9.94E-07	4.67E-06	6.41E-10	
217	2	Surface	Cobalt	mg/kg	1.74E+01	1.70E-07	8.00E-07	1.10E-10	
217	2	Surface	Iron	mg/kg	3.09E+04	3.03E-04	1.42E-03	1.95E-07	
217	2	Surface	Manganese	mg/kg	8.44E+02	8.25E-06	3.10E-05	5.32E-09	
217	2	Surface	Mercury	mg/kg	8.59E+00	8.41E-08	3.95E-07	1.62E-06	
217	2	Surface	Nickel	mg/kg	9.74E+01	9.53E-07	3.58E-06	6.15E-10	
217	2	Surface	Silver	mg/kg	1.61E+01	1.57E-07	5.92E-07	1.02E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
217	2	Surface	Total PAH	mg/kg	5.05E-01	4.94E-09	6.04E-08	2.36E-10	
219	1	Surface	Neptunium-237	pCi/g	3.31E-01	5.79E+00		3.74E-03	8.46E-02
219	1	Surface	Nickel	mg/kg	6.71E+01	6.57E-07	2.47E-06	4.24E-10	
219	1	Surface	Total PAH	mg/kg	7.50E-02	7.34E-10	8.97E-09	3.50E-11	
219	1	Surface	Uranium-235	pCi/g	1.92E-01	3.36E+00		2.17E-03	4.91E-02
219	1	Surface	Uranium-238	pCi/g	4.40E+00	7.70E+01		4.97E-02	1.13E+00
221	1	Surface	Barium	mg/kg	2.21E+02	2.16E-06	1.02E-05	1.40E-09	
221	1	Surface	Chromium	mg/kg	7.01E+01	6.86E-07	3.22E-06	4.43E-10	
221	1	Surface	Iron	mg/kg	1.90E+04	1.86E-04	8.73E-04	1.20E-07	
221	1	Surface	Nickel	mg/kg	7.93E+01	7.76E-07	2.92E-06	5.00E-10	
221	1	Surface	PCB, Total	mg/kg	5.00E-01	4.89E-09	6.44E-08	5.32E-09	
221	1	Surface	Total PAH	mg/kg	1.02E+00	1.00E-08	1.22E-07	4.77E-10	
221	1	Surface	Uranium	mg/kg	1.64E+01	1.60E-07	7.52E-07	1.03E-10	
221	1	Surface	Uranium-238	pCi/g	1.93E+00	3.38E+01		2.18E-02	4.94E-01
222	1	Surface	Chromium	mg/kg	4.73E+01	4.63E-07	2.18E-06	2.99E-10	
222	1	Surface	Nickel	mg/kg	9.19E+01	8.99E-07	3.38E-06	5.80E-10	
222	1	Surface	PCB, Total	mg/kg	1.40E+00	1.37E-08	1.80E-07	1.49E-08	
222	1	Surface	Total PAH	mg/kg	1.77E-01	1.73E-09	2.12E-08	8.27E-11	
222	1	Surface	Uranium	mg/kg	2.80E+01	2.74E-07	1.29E-06	1.77E-10	
222	1	Surface	Uranium-234	pCi/g	1.04E+01	1.82E+02		1.17E-01	2.66E+00
222	1	Surface	Uranium-235	pCi/g	7.10E-01	1.24E+01		8.02E-03	1.82E-01
222	1	Surface	Uranium-238	pCi/g	1.96E+01	3.43E+02		2.21E-01	5.01E+00
224	1	Surface	Chromium	mg/kg	4.49E+01	4.39E-07	2.06E-06	2.83E-10	
224	1	Surface	PCB, Total	mg/kg	4.75E+02	4.65E-06	6.12E-05	5.05E-06	
224	1	Surface	Total PAH	mg/kg	4.53E+01	4.43E-07	5.41E-06	2.11E-08	
224	1	Surface	Uranium	mg/kg	4.15E+01	4.06E-07	1.91E-06	2.62E-10	
224	1	Surface	Uranium-235	pCi/g	2.50E-01	4.38E+00		2.82E-03	6.39E-02
224	1	Surface	Uranium-238	pCi/g	2.64E+01	4.62E+02		2.98E-01	6.75E+00
225	1	Surface	Chromium	mg/kg	2.55E+01	2.50E-07	1.17E-06	1.61E-10	
225	1	Surface	Total PAH	mg/kg	7.79E-02	7.62E-10	9.31E-09	3.63E-11	
225	1	Surface	Uranium-238	pCi/g	2.04E+00	3.57E+01		2.30E-02	5.22E-01
226	1	Surface	Americium-241	pCi/g	1.62E+00	2.84E+01		1.83E-02	4.15E-01
226	1	Surface	Antimony	mg/kg	6.60E-01	6.46E-09	3.04E-08	4.17E-12	
226	1	Surface	Cesium-137	pCi/g	2.65E+00	4.64E+01		2.99E-02	6.78E-01
226	1	Surface	Chromium	mg/kg	4.25E+01	4.16E-07	1.96E-06	2.68E-10	
226	1	Surface	Cobalt-60	pCi/g	3.14E-03	5.50E-02		3.55E-05	8.03E-04
226	1	Surface	Manganese	mg/kg	6.30E+02	6.16E-06	2.32E-05	3.98E-09	
226	1	Surface	Mercury	mg/kg	9.74E+00	9.53E-08	4.48E-07	1.83E-06	
226	1	Surface	Neptunium-237	pCi/g	1.60E+02	2.80E+03		1.81E+00	4.09E+01
226	1	Surface	Nickel	mg/kg	2.10E+02	2.05E-06	7.71E-06	1.32E-09	
226	1	Surface	PCB, Total	mg/kg	1.49E+00	1.46E-08	1.92E-07	1.59E-08	
226	1	Surface	Plutonium-238	pCi/g	2.13E+00	3.73E+01		2.41E-02	5.45E-01
226	1	Surface	Plutonium-239/240	pCi/g	6.52E+00	1.14E+02		7.36E-02	1.67E+00
226	1	Surface	Technetium-99	pCi/g	4.96E+01	8.68E+02		5.60E-01	1.27E+01
226	1	Surface	Thorium-230	pCi/g	4.77E+01	8.35E+02		5.39E-01	1.22E+01
226	1	Surface	Total PAH	mg/kg	9.19E-02	8.99E-10	1.10E-08	4.29E-11	
226	1	Surface	Uranium	mg/kg	4.01E+02	3.92E-06	1.84E-05	2.53E-09	
226	1	Surface	Uranium-234	pCi/g	2.29E+01	4.01E+02		2.59E-01	5.86E+00
226	1	Surface	Uranium-235	pCi/g	1.10E+00	1.93E+01		1.24E-02	2.82E-01
226	1	Surface	Uranium-238	pCi/g	2.40E+01	4.20E+02		2.71E-01	6.14E+00
227	1	Surface	Beryllium	mg/kg	5.52E-01	5.40E-09	3.55E-09	3.48E-12	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
227	1	Surface	Cesium-137	pCi/g	1.90E-01	3.33E+00		2.15E-03	4.86E-02
227	1	Surface	Chromium	mg/kg	4.71E+01	4.61E-07	2.17E-06	2.98E-10	
227	1	Surface	Cobalt-60	pCi/g	1.53E-02	2.68E-01		1.73E-04	3.91E-03
227	1	Surface	Neptunium-237	pCi/g	9.05E-01	1.58E+01		1.02E-02	2.31E-01
227	1	Surface	Nickel	mg/kg	2.03E+02	1.99E-06	7.47E-06	1.28E-09	
227	1	Surface	PCB, Total	mg/kg	4.14E+00	4.05E-08	5.33E-07	4.41E-08	
227	1	Surface	Technetium-99	pCi/g	4.77E+01	8.35E+02		5.39E-01	1.22E+01
227	1	Surface	Total PAH	mg/kg	3.38E-01	3.31E-09	4.04E-08	1.58E-10	
227	1	Surface	Uranium	mg/kg	1.02E+02	9.94E-07	4.67E-06	6.41E-10	
227	1	Surface	Uranium-234	pCi/g	1.54E+01	2.70E+02		1.74E-01	3.95E+00
227	1	Surface	Uranium-235	pCi/g	1.49E+00	2.61E+01		1.68E-02	3.81E-01
227	1	Surface	Uranium-238	pCi/g	4.63E+01	8.10E+02		5.23E-01	1.18E+01
227	2	Surface	Beryllium	mg/kg	5.32E-01	5.21E-09	3.43E-09	3.36E-12	
227	2	Surface	Chromium	mg/kg	5.63E+01	5.51E-07	2.59E-06	3.55E-10	
227	2	Surface	Cobalt	mg/kg	8.99E+00	8.79E-08	4.13E-07	5.67E-11	
227	2	Surface	Cobalt-60	pCi/g	1.37E-02	2.40E-01		1.55E-04	3.50E-03
227	2	Surface	Mercury	mg/kg	8.41E+00	8.23E-08	3.87E-07	1.58E-06	
227	2	Surface	Nickel	mg/kg	1.25E+02	1.22E-06	4.60E-06	7.88E-10	
227	2	Surface	PCB, Total	mg/kg	5.82E+00	5.70E-08	7.50E-07	6.19E-08	
227	2	Surface	Total PAH	mg/kg	1.16E-01	1.13E-09	1.38E-08	5.40E-11	
227	2	Surface	Uranium	mg/kg	1.51E+01	1.47E-07	6.92E-07	9.50E-11	
227	2	Surface	Uranium-238	pCi/g	1.57E+00	2.75E+01		1.78E-02	4.02E-01
228	1	Surface	Antimony	mg/kg	6.30E-01	6.16E-09	2.90E-08	3.98E-12	
228	1	Surface	Cadmium	mg/kg	3.90E+00	3.82E-08	3.59E-09	2.46E-11	
228	1	Surface	Chromium	mg/kg	1.89E+02	1.85E-06	8.69E-06	1.19E-09	
228	1	Surface	Mercury	mg/kg	9.37E+00	9.17E-08	4.31E-07	1.76E-06	
228	1	Surface	Neptunium-237	pCi/g	8.00E-01	1.40E+01		9.03E-03	2.05E-01
228	1	Surface	Nickel	mg/kg	7.92E+01	7.75E-07	2.91E-06	5.00E-10	
228	1	Surface	Silver	mg/kg	1.16E+01	1.14E-07	4.28E-07	7.34E-11	
228	1	Surface	Total PAH	mg/kg	6.69E-02	6.54E-10	8.00E-09	3.12E-11	
228	1	Surface	Uranium	mg/kg	1.51E+01	1.48E-07	6.96E-07	9.55E-11	
228	1	Surface	Uranium-235	pCi/g	1.78E-01	3.12E+00		2.01E-03	4.55E-02
228	1	Surface	Uranium-238	pCi/g	3.77E+00	6.60E+01		4.26E-02	9.64E-01
229	1	Surface	Nickel	mg/kg	9.14E+01	8.94E-07	3.36E-06	5.77E-10	
229	1	Surface	Total PAH	mg/kg	1.57E-01	1.53E-09	1.87E-08	7.32E-11	
229	1	Surface	Uranium	mg/kg	1.56E+02	1.52E-06	7.17E-06	9.84E-10	
229	1	Surface	Uranium-238	pCi/g	2.86E+00	5.01E+01		3.23E-02	7.31E-01
229	2	Surface	Arsenic	mg/kg	2.12E+01	2.07E-07	5.85E-07	1.34E-10	
229	2	Surface	Beryllium	mg/kg	7.90E-01	7.73E-09	5.09E-09	4.99E-12	
229	2	Surface	Chromium	mg/kg	2.91E+01	2.85E-07	1.34E-06	1.84E-10	
229	2	Surface	Neptunium-237	pCi/g	2.87E-01	5.02E+00		3.24E-03	7.34E-02
229	2	Surface	Nickel	mg/kg	9.93E+01	9.71E-07	3.65E-06	6.27E-10	
229	2	Surface	Total PAH	mg/kg	1.69E+00	1.66E-08	2.03E-07	7.91E-10	
229	2	Surface	Uranium	mg/kg	7.45E+01	7.29E-07	3.43E-06	4.70E-10	
229	2	Surface	Uranium-234	pCi/g	1.22E+01	2.14E+02		1.38E-01	3.12E+00
229	2	Surface	Uranium-235	pCi/g	8.40E-01	1.47E+01		9.48E-03	2.15E-01
229	2	Surface	Uranium-238	pCi/g	2.49E+01	4.36E+02		2.81E-01	6.37E+00
483	1	Surface	Nickel	mg/kg	1.17E+02	1.14E-06	4.29E-06	7.36E-10	
483	1	Surface	Silver	mg/kg	1.12E+01	1.09E-07	4.12E-07	7.06E-11	
483	1	Surface	Total PAH	mg/kg	2.39E-02	2.34E-10	2.86E-09	1.12E-11	
486	1	Surface	Cesium-137	pCi/g					

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
487	1	Surface	Cesium-137	pCi/g					
488	1	Surface	Cesium-137	pCi/g	5.20E-01	9.10E+00		5.87E-03	1.33E-01
488	1	Surface	PCB, Total	mg/kg	1.03E+01	1.01E-07	1.33E-06	1.10E-07	
488	1	Surface	Total PAH	mg/kg	2.50E-01	2.44E-09	2.99E-08	1.17E-10	
488	1	Surface	Uranium	mg/kg	1.48E+01	1.45E-07	6.81E-07	9.34E-11	
488	1	Surface	Uranium-235	pCi/g	1.49E-01	2.61E+00		1.68E-03	3.81E-02
488	1	Surface	Uranium-238	pCi/g	4.54E+00	7.95E+01		5.13E-02	1.16E+00
489	1	Surface	Chromium	mg/kg	4.16E+01	4.07E-07	1.91E-06	2.63E-10	
489	1	Surface	Nickel	mg/kg	7.88E+01	7.71E-07	2.90E-06	4.98E-10	
489	1	Surface	Total PAH	mg/kg	8.22E-02	8.04E-10	9.83E-09	3.84E-11	
489	1	Surface	Uranium-238	pCi/g	1.47E+00	2.57E+01		1.66E-02	3.76E-01
492	1	Surface	Arsenic	mg/kg	1.47E+01	1.44E-07	4.06E-07	9.28E-11	
492	1	Surface	Beryllium	mg/kg	1.04E+01	1.02E-07	6.70E-08	6.57E-11	
492	1	Surface	Cadmium	mg/kg	3.14E+00	3.07E-08	2.89E-09	1.98E-11	
492	1	Surface	Chromium	mg/kg	1.04E+03	1.02E-05	4.78E-05	6.57E-09	
492	1	Surface	Cobalt-60	pCi/g	9.63E-03	1.69E-01		1.09E-04	2.46E-03
492	1	Surface	Neptunium-237	pCi/g	2.09E-01	3.66E+00		2.36E-03	5.34E-02
492	1	Surface	PCB, Total	mg/kg	4.41E+01	4.32E-07	5.68E-06	4.69E-07	
492	1	Surface	Uranium	mg/kg	1.77E+03	1.73E-05	8.14E-05	1.12E-08	
492	1	Surface	Uranium-234	pCi/g	5.39E+01	9.43E+02		6.09E-01	1.38E+01
492	1	Surface	Uranium-235	pCi/g	5.72E+00	1.00E+02		6.46E-02	1.46E+00
492	1	Surface	Uranium-238	pCi/g	3.83E+02	6.70E+03		4.32E+00	9.79E+01
492	1	Surface	Vanadium	mg/kg	4.32E+01	4.23E-07	1.03E-06	2.73E-10	
493	1	Surface	Aluminum	mg/kg	1.44E+04	1.41E-04	6.62E-04	9.09E-08	
493	1	Surface	Barium	mg/kg	4.04E+02	3.95E-06	1.86E-05	2.55E-09	
493	1	Surface	Beryllium	mg/kg	9.91E-01	9.70E-09	6.38E-09	6.26E-12	
493	1	Surface	Chromium	mg/kg	6.61E+01	6.47E-07	3.04E-06	4.17E-10	
493	1	Surface	Cobalt	mg/kg	3.79E+01	3.71E-07	1.74E-06	2.39E-10	
493	1	Surface	Cobalt-60	pCi/g	1.36E-02	2.38E-01		1.54E-04	3.48E-03
493	1	Surface	Manganese	mg/kg	3.55E+03	3.47E-05	1.31E-04	2.24E-08	
493	1	Surface	Mercury	mg/kg	2.60E-01	2.54E-09	1.20E-08	4.89E-08	
493	1	Surface	Neptunium-237	pCi/g	1.22E-01	2.14E+00		1.38E-03	3.12E-02
493	1	Surface	Nickel	mg/kg	2.13E+02	2.08E-06	7.84E-06	1.34E-09	
493	1	Surface	PCB, Total	mg/kg	2.60E-01	2.54E-09	3.35E-08	2.77E-09	
493	1	Surface	Total PAH	mg/kg	5.00E-01	4.89E-09	5.98E-08	2.33E-10	
493	1	Surface	Uranium-235	pCi/g	1.65E-01	2.89E+00		1.86E-03	4.22E-02
493	1	Surface	Uranium-238	pCi/g	5.50E+00	9.63E+01		6.21E-02	1.41E+00
493	1	Surface	Vanadium	mg/kg	4.05E+01	3.96E-07	9.69E-07	2.56E-10	
517	1	Surface	Beryllium	mg/kg	7.39E-01	7.23E-09	4.76E-09	4.67E-12	
517	1	Surface	Chromium	mg/kg	4.91E+01	4.80E-07	2.26E-06	3.10E-10	
517	1	Surface	Cobalt-60	pCi/g	6.39E-03	1.12E-01		7.21E-05	1.63E-03
517	1	Surface	Neptunium-237	pCi/g	1.07E+00	1.87E+01		1.21E-02	2.74E-01
517	1	Surface	Nickel	mg/kg	1.72E+02	1.68E-06	6.33E-06	1.09E-09	
517	1	Surface	PCB, Total	mg/kg	5.00E-01	4.89E-09	6.44E-08	5.32E-09	
517	1	Surface	Uranium-235	pCi/g	1.60E-01	2.80E+00		1.81E-03	4.09E-02
517	1	Surface	Uranium-238	pCi/g	3.89E+00	6.81E+01		4.39E-02	9.95E-01
518	1	Surface	Carbazole	mg/kg	1.17E+01	1.15E-07	1.08E-06	3.43E-08	
518	1	Surface	Cobalt	mg/kg	6.80E+00	6.66E-08	3.13E-07	4.30E-11	
518	1	Surface	Nickel	mg/kg	1.29E+01	1.26E-07	4.73E-07	8.12E-11	
518	1	Surface	PCB, Total	mg/kg	6.30E-01	6.16E-09	8.11E-08	6.70E-09	
518	1	Surface	Pyrene	mg/kg	3.94E+01	3.86E-07	4.71E-06	1.64E-07	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
518	1	Surface	Total PAH	mg/kg	4.64E+00	4.54E-08	5.54E-07	2.16E-09	
518	1	Surface	Uranium	mg/kg	2.17E+02	2.12E-06	9.98E-06	1.37E-09	
518	1	Surface	Uranium-235	pCi/g	6.74E-02	1.18E+00		7.61E-04	1.72E-02
518	1	Surface	Uranium-238	pCi/g	1.51E+00	2.65E+01		1.71E-02	3.87E-01
520	1	Surface	Cesium-137	pCi/g	9.62E-01	1.68E+01		1.09E-02	2.46E-01
520	1	Surface	Chromium	mg/kg	3.17E+01	3.10E-07	1.46E-06	2.00E-10	
520	1	Surface	Iron	mg/kg	1.56E+04	1.53E-04	7.17E-04	9.84E-08	
520	1	Surface	Mercury	mg/kg	1.07E+01	1.05E-07	4.91E-07	2.01E-06	
520	1	Surface	Neptunium-237	pCi/g	6.56E-01	1.15E+01		7.41E-03	1.68E-01
520	1	Surface	Nickel	mg/kg	2.60E+02	2.55E-06	9.58E-06	1.64E-09	
520	1	Surface	Silver	mg/kg	1.30E+01	1.27E-07	4.77E-07	8.19E-11	
520	1	Surface	Thorium-230	pCi/g	1.13E+01	1.98E+02		1.28E-01	2.90E+00
520	1	Surface	Total PAH	mg/kg	3.18E-02	3.12E-10	3.81E-09	1.49E-11	
520	1	Surface	Uranium	mg/kg	2.29E+01	2.24E-07	1.05E-06	1.45E-10	
520	1	Surface	Uranium-235	pCi/g	1.26E-01	2.21E+00		1.42E-03	3.22E-02
520	1	Surface	Uranium-238	pCi/g	3.93E+00	6.88E+01		4.44E-02	1.00E+00
520	2	Surface	Beryllium	mg/kg	5.79E-01	5.67E-09	3.73E-09	3.66E-12	
520	2	Surface	Chromium	mg/kg	6.67E+01	6.52E-07	3.07E-06	4.21E-10	
520	2	Surface	Manganese	mg/kg	5.89E+02	5.77E-06	2.17E-05	3.72E-09	
520	2	Surface	Mercury	mg/kg	1.19E+01	1.16E-07	5.46E-07	2.24E-06	
520	2	Surface	Neptunium-237	pCi/g	7.48E-02	1.31E+00		8.45E-04	1.91E-02
520	2	Surface	Nickel	mg/kg	3.11E+02	3.04E-06	1.14E-05	1.96E-09	
520	2	Surface	Total PAH	mg/kg	3.17E-01	3.10E-09	3.79E-08	1.48E-10	
520	2	Surface	Uranium	mg/kg	3.96E+01	3.87E-07	1.82E-06	2.50E-10	
520	2	Surface	Uranium-238	pCi/g	1.78E+00	3.11E+01		2.01E-02	4.55E-01
520	3	Surface	Chromium	mg/kg	3.97E+01	3.88E-07	1.82E-06	2.50E-10	
520	3	Surface	Copper	mg/kg	1.19E+02	1.16E-06	5.47E-06	7.51E-10	
520	3	Surface	Nickel	mg/kg	2.65E+02	2.59E-06	9.74E-06	1.67E-09	
520	3	Surface	Silver	mg/kg	1.27E+01	1.24E-07	4.66E-07	8.00E-11	
520	3	Surface	Total PAH	mg/kg	1.18E-01	1.16E-09	1.41E-08	5.51E-11	
520	3	Surface	Uranium	mg/kg	1.92E+01	1.88E-07	8.84E-07	1.21E-10	
520	3	Surface	Uranium-238	pCi/g	1.57E+00	2.75E+01		1.77E-02	4.01E-01
520	4	Surface	Chromium	mg/kg	3.82E+01	3.74E-07	1.76E-06	2.41E-10	
520	4	Surface	Copper	mg/kg	1.11E+02	1.08E-06	5.09E-06	6.98E-10	
520	4	Surface	Mercury	mg/kg	9.69E+00	9.48E-08	4.46E-07	1.82E-06	
520	4	Surface	Neptunium-237	pCi/g	7.40E-01	1.30E+01		8.35E-03	1.89E-01
520	4	Surface	Nickel	mg/kg	2.82E+02	2.76E-06	1.04E-05	1.78E-09	
520	4	Surface	Silver	mg/kg	1.04E+01	1.02E-07	3.84E-07	6.59E-11	
520	4	Surface	Total PAH	mg/kg	5.52E-01	5.41E-09	6.61E-08	2.58E-10	
520	4	Surface	Uranium	mg/kg	2.40E+01	2.35E-07	1.10E-06	1.52E-10	
520	4	Surface	Uranium-235	pCi/g	2.42E-01	4.24E+00		2.73E-03	6.19E-02
520	4	Surface	Uranium-238	pCi/g	6.26E+00	1.10E+02		7.07E-02	1.60E+00
520	5	Surface	Antimony	mg/kg	9.60E-01	9.39E-09	4.41E-08	6.06E-12	
520	5	Surface	Chromium	mg/kg	3.68E+01	3.60E-07	1.69E-06	2.32E-10	
520	5	Surface	Neptunium-237	pCi/g	1.55E-01	2.71E+00		1.75E-03	3.96E-02
520	5	Surface	Nickel	mg/kg	1.47E+02	1.44E-06	5.40E-06	9.27E-10	
520	5	Surface	Total PAH	mg/kg	3.87E-01	3.79E-09	4.63E-08	1.81E-10	
520	5	Surface	Uranium-238	pCi/g	1.45E+00	2.54E+01		1.64E-02	3.71E-01
531	1	Surface	Antimony	mg/kg	1.00E+00	9.78E-09	4.60E-08	6.31E-12	
531	1	Surface	Arsenic	mg/kg	4.68E+01	4.58E-07	1.29E-06	2.96E-10	
531	1	Surface	Cadmium	mg/kg	3.10E+00	3.03E-08	2.85E-09	1.96E-11	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
531	1	Surface	Chromium	mg/kg	5.05E+01	4.94E-07	2.32E-06	3.18E-10	
531	1	Surface	Iron	mg/kg	5.68E+04	5.56E-04	2.61E-03	3.59E-07	
531	1	Surface	Nickel	mg/kg	1.62E+02	1.59E-06	5.97E-06	1.02E-09	
531	1	Surface	Total PAH	mg/kg	5.34E-02	5.22E-10	6.38E-09	2.49E-11	
531	1	Surface	Uranium	mg/kg	2.41E+01	2.36E-07	1.11E-06	1.52E-10	
531	1	Surface	Uranium-235	pCi/g	1.38E-01	2.42E+00		1.56E-03	3.53E-02
531	1	Surface	Uranium-238	pCi/g	3.48E+00	6.09E+01		3.93E-02	8.90E-01
531	1	Surface	Zinc	mg/kg	2.45E+03	2.40E-05	1.13E-04	1.55E-08	
541	1	Surface	Aluminum	mg/kg	1.43E+04	1.40E-04	6.57E-04	9.02E-08	
541	1	Surface	Americium-241	pCi/g	7.53E+00	1.32E+02		8.50E-02	1.93E+00
541	1	Surface	Barium	mg/kg	1.28E+02	1.25E-06	5.89E-06	8.08E-10	
541	1	Surface	Beryllium	mg/kg	6.98E-01	6.83E-09	4.49E-09	4.41E-12	
541	1	Surface	Cadmium	mg/kg	1.68E+00	1.65E-08	1.55E-09	1.06E-11	
541	1	Surface	Cesium-137	pCi/g	9.58E-01	1.68E+01		1.08E-02	2.45E-01
541	1	Surface	Chromium	mg/kg	8.24E+02	8.06E-06	3.79E-05	5.20E-09	
541	1	Surface	Cobalt-60	pCi/g	1.01E-02	1.77E-01		1.14E-04	2.58E-03
541	1	Surface	Iron	mg/kg	1.60E+04	1.56E-04	7.34E-04	1.01E-07	
541	1	Surface	Mercury	mg/kg	9.81E-02	9.60E-10	4.51E-09	1.85E-08	
541	1	Surface	Naphthalene	mg/kg	6.55E-01	6.41E-09	1.51E-07	1.38E-07	
541	1	Surface	Neptunium-237	pCi/g	5.52E-02	9.66E-01		6.23E-04	1.41E-02
541	1	Surface	Nickel	mg/kg	1.52E+01	1.49E-07	5.61E-07	9.62E-11	
541	1	Surface	PCB, Total	mg/kg	6.06E+01	5.93E-07	7.80E-06	6.45E-07	
541	1	Surface	Total PAH	mg/kg	2.33E+00	2.28E-08	2.78E-07	1.09E-09	
541	1	Surface	Uranium	mg/kg	6.38E+03	6.25E-05	2.94E-04	4.03E-08	
541	1	Surface	Uranium-234	pCi/g	1.43E+02	2.50E+03		1.61E+00	3.65E+01
541	1	Surface	Uranium-235	pCi/g	1.76E+01	3.07E+02		1.98E-01	4.49E+00
541	1	Surface	Uranium-238	pCi/g	1.00E+03	1.75E+04		1.13E+01	2.56E+02
541	1	Surface	Vanadium	mg/kg	3.04E+01	2.98E-07	7.28E-07	1.92E-10	
561	1	Surface	Antimony	mg/kg	9.36E-01	9.16E-09	4.30E-08	5.91E-12	
561	1	Surface	Arsenic	mg/kg	1.66E+01	1.62E-07	4.57E-07	1.04E-10	
561	1	Surface	Barium	mg/kg	1.40E+02	1.37E-06	6.45E-06	8.85E-10	
561	1	Surface	Beryllium	mg/kg	6.85E-01	6.70E-09	4.41E-09	4.32E-12	
561	1	Surface	Chromium	mg/kg	8.58E+01	8.39E-07	3.94E-06	5.42E-10	
561	1	Surface	Cobalt	mg/kg	1.07E+01	1.05E-07	4.92E-07	6.75E-11	
561	1	Surface	Cobalt-60	pCi/g	7.06E-02	1.24E+00		7.97E-04	1.81E-02
561	1	Surface	Iron	mg/kg	2.05E+04	2.00E-04	9.41E-04	1.29E-07	
561	1	Surface	Manganese	mg/kg	1.61E+03	1.57E-05	5.92E-05	1.02E-08	
561	1	Surface	Neptunium-237	pCi/g	2.71E-02	4.74E-01		3.06E-04	6.93E-03
561	1	Surface	PCB, Total	mg/kg	1.04E+00	1.02E-08	1.34E-07	1.11E-08	
561	1	Surface	Thallium	mg/kg	3.33E-01	3.26E-09	1.53E-08	2.10E-12	
561	1	Surface	Total PAH	mg/kg	1.65E-01	1.62E-09	1.97E-08	7.70E-11	
561	1	Surface	Uranium	mg/kg	2.65E+02	2.59E-06	1.22E-05	1.67E-09	
561	1	Surface	Uranium-234	pCi/g	7.84E+00	1.37E+02		8.85E-02	2.00E+00
561	1	Surface	Uranium-235	pCi/g	1.37E+00	2.39E+01		1.54E-02	3.49E-01
561	1	Surface	Uranium-238	pCi/g	1.07E+02	1.86E+03		1.20E+00	2.72E+01
561	1	Surface	Vanadium	mg/kg	3.76E+01	3.68E-07	9.00E-07	2.38E-10	
561	2	Surface	Antimony	mg/kg	5.33E+00	5.22E-08	2.45E-07	3.37E-11	
561	2	Surface	Arsenic	mg/kg	1.30E+01	1.27E-07	3.59E-07	8.21E-11	
561	2	Surface	Beryllium	mg/kg	6.34E-01	6.20E-09	4.08E-09	4.00E-12	
561	2	Surface	Cadmium	mg/kg	4.13E-01	4.04E-09	3.80E-10	2.61E-12	
561	2	Surface	Cesium-137	pCi/g	4.09E-01	7.16E+00		4.62E-03	1.05E-01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
561	2	Surface	Chromium	mg/kg	2.88E+02	2.82E-06	1.33E-05	1.82E-09	
561	2	Surface	Cobalt	mg/kg	1.14E+01	1.12E-07	5.24E-07	7.20E-11	
561	2	Surface	Cobalt-60	pCi/g	2.76E-02	4.83E-01		3.12E-04	7.06E-03
561	2	Surface	Manganese	mg/kg	1.12E+03	1.09E-05	4.10E-05	7.04E-09	
561	2	Surface	Neptunium-237	pCi/g	4.71E-02	8.24E-01		5.32E-04	1.20E-02
561	2	Surface	PCB, Total	mg/kg	1.64E+01	1.60E-07	2.11E-06	1.74E-07	
561	2	Surface	Thallium	mg/kg	4.09E-01	4.00E-09	1.88E-08	2.58E-12	
561	2	Surface	Total PAH	mg/kg	4.43E-01	4.33E-09	5.30E-08	2.07E-10	
561	2	Surface	Uranium	mg/kg	1.38E+03	1.35E-05	6.36E-05	8.73E-09	
561	2	Surface	Uranium-234	pCi/g	4.06E+01	7.11E+02		4.59E-01	1.04E+01
561	2	Surface	Uranium-235	pCi/g	7.09E+00	1.24E+02		8.01E-02	1.81E+00
561	2	Surface	Uranium-238	pCi/g	4.00E+02	7.01E+03		4.52E+00	1.02E+02
561	2	Surface	Vanadium	mg/kg	3.46E+01	3.38E-07	8.26E-07	2.18E-10	
562	1	Surface	Uranium	mg/kg	8.73E+01	8.54E-07	4.02E-06	5.51E-10	
562	1	Surface	Uranium-238	pCi/g	2.73E+00	4.78E+01		3.08E-02	6.98E-01
562	2	Surface	PCB, Total	mg/kg	1.58E+00	1.55E-08	2.03E-07	1.68E-08	
562	2	Surface	Uranium-234	pCi/g	5.34E+01	9.35E+02		6.03E-01	1.37E+01
562	2	Surface	Uranium-235	pCi/g	8.96E+00	1.57E+02		1.01E-01	2.29E+00
562	2	Surface	Uranium-238	pCi/g	5.81E+02	1.02E+04		6.56E+00	1.49E+02
562	3	Surface	Chromium	mg/kg	3.82E+01	3.73E-07	1.75E-06	2.41E-10	
562	3	Surface	PCB, Total	mg/kg	2.40E-01	2.35E-09	3.09E-08	2.55E-09	
562	3	Surface	Total PAH	mg/kg	2.20E-01	2.15E-09	2.63E-08	1.03E-10	
562	3	Surface	Uranium	mg/kg	5.89E+01	5.76E-07	2.71E-06	3.72E-10	
562	3	Surface	Uranium-235	pCi/g	1.63E-01	2.85E+00		1.84E-03	4.17E-02
562	3	Surface	Uranium-238	pCi/g	1.09E+01	1.91E+02		1.23E-01	2.79E+00
562	4	Surface	Chromium	mg/kg	4.67E+01	4.57E-07	2.15E-06	2.95E-10	
562	4	Surface	Uranium	mg/kg	2.10E+01	2.05E-07	9.65E-07	1.33E-10	
562	4	Surface	Uranium-238	pCi/g	2.24E+00	3.92E+01		2.53E-02	5.73E-01
562	5	Surface	Chromium	mg/kg	1.53E+02	1.50E-06	7.04E-06	9.67E-10	
562	5	Surface	PCB, Total	mg/kg	9.50E-01	9.30E-09	1.22E-07	1.01E-08	
562	5	Surface	Total PAH	mg/kg	7.05E-02	6.90E-10	8.43E-09	3.29E-11	
562	5	Surface	Uranium	mg/kg	2.08E+02	2.04E-06	9.57E-06	1.31E-09	
562	5	Surface	Uranium-234	pCi/g	8.57E+00	1.50E+02		9.68E-02	2.19E+00
562	5	Surface	Uranium-235	pCi/g	9.50E-01	1.66E+01		1.07E-02	2.43E-01
562	5	Surface	Uranium-238	pCi/g	6.24E+01	1.09E+03		7.05E-01	1.60E+01
563	1	Surface	Cadmium	mg/kg	8.96E-01	8.77E-09	8.24E-10	5.66E-12	
563	1	Surface	Chromium	mg/kg	2.85E+02	2.79E-06	1.31E-05	1.80E-09	
563	1	Surface	PCB, Total	mg/kg	7.40E-01	7.24E-09	9.53E-08	7.88E-09	
563	1	Surface	Uranium	mg/kg	1.51E+01	1.48E-07	6.94E-07	9.53E-11	
563	1	Surface	Uranium-238	pCi/g	2.76E+00	4.83E+01		3.12E-02	7.06E-01
563	2	Surface	Cesium-137	pCi/g	6.47E-01	1.13E+01		7.30E-03	1.65E-01
563	2	Surface	Uranium-238	pCi/g	1.49E+00	2.61E+01		1.68E-02	3.81E-01
564	1	Surface	Arsenic	mg/kg	4.30E+01	4.21E-07	1.19E-06	2.71E-10	
564	1	Surface	Beryllium	mg/kg	2.12E+00	2.07E-08	1.36E-08	1.34E-11	
564	1	Surface	Cadmium	mg/kg	1.96E+00	1.92E-08	1.80E-09	1.24E-11	
564	1	Surface	Cesium-137	pCi/g	6.20E-01	1.09E+01		7.00E-03	1.59E-01
564	1	Surface	Chromium	mg/kg	7.49E+01	7.33E-07	3.45E-06	4.73E-10	
564	1	Surface	Iron	mg/kg	3.66E+04	3.58E-04	1.68E-03	2.31E-07	
564	1	Surface	Mercury	mg/kg	2.30E-01	2.25E-09	1.06E-08	4.33E-08	
564	1	Surface	Nickel	mg/kg	2.24E+01	2.19E-07	8.24E-07	1.41E-10	
564	1	Surface	PCB, Total	mg/kg	1.93E+00	1.89E-08	2.49E-07	2.05E-08	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.8. Cancerous CDIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
564	1	Surface	Thallium	mg/kg	2.36E+00	2.31E-08	1.09E-07	1.49E-11	
564	1	Surface	Thorium-230	pCi/g	5.01E+00	8.77E+01		5.66E-02	1.28E+00
564	1	Surface	Uranium	mg/kg	5.83E+01	5.70E-07	2.68E-06	3.68E-10	
564	1	Surface	Uranium-234	pCi/g	6.93E+00	1.21E+02		7.82E-02	1.77E+00
564	1	Surface	Uranium-235	pCi/g	3.87E-01	6.77E+00		4.37E-03	9.90E-02
564	1	Surface	Uranium-238	pCi/g	8.33E+00	1.46E+02		9.40E-02	2.13E+00
564	1	Surface	Vanadium	mg/kg	8.06E+01	7.89E-07	1.93E-06	5.09E-10	
567	3	Surface	Chromium	mg/kg	3.79E+01	3.71E-07	1.74E-06	2.39E-10	
567	4	Surface	Aluminum	mg/kg	1.25E+04	1.23E-04	5.76E-04	7.90E-08	
567	4	Surface	Chromium	mg/kg	1.63E+01	1.59E-07	7.50E-07	1.03E-10	
567	4	Surface	Uranium-238	pCi/g	1.05E+00	1.84E+01		1.18E-02	2.68E-01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
1	1	Surface	Beryllium	mg/kg	3.89E+00	1.91E-06	1.25E-06	1.23E-09
1	1	Surface	Cadmium	mg/kg	1.10E+00	5.38E-07	5.06E-08	3.47E-10
1	1	Surface	Cesium-137	pCi/g	5.91E-01	2.89E-07		1.87E-10
1	1	Surface	Chromium	mg/kg	1.28E+01	6.27E-06	2.95E-05	4.05E-09
1	1	Surface	Neptunium-237	pCi/g	4.02E-01	1.97E-07		1.27E-10
1	1	Surface	PCB, Total	mg/kg	1.76E-01	8.61E-08	1.13E-06	9.36E-08
1	1	Surface	Plutonium-239/240	pCi/g	6.14E+00	3.00E-06		1.94E-09
1	1	Surface	Thorium-230	pCi/g	4.40E+01	2.15E-05		1.39E-08
1	1	Surface	Uranium-235	pCi/g	1.06E-01	5.19E-08		3.35E-11
1	1	Surface	Uranium-238	pCi/g	1.97E+00	9.66E-07		6.23E-10
1	2	Surface	Beryllium	mg/kg	8.23E+00	4.03E-06	2.65E-06	2.60E-09
1	2	Surface	Cadmium	mg/kg	6.46E+00	3.16E-06	2.97E-07	2.04E-09
1	2	Surface	Chromium	mg/kg	2.01E+02	9.84E-05	4.63E-04	6.35E-08
1	2	Surface	Copper	mg/kg	1.81E+02	8.85E-05	4.16E-04	5.71E-08
1	2	Surface	Mercury	mg/kg	5.94E+00	2.91E-06	1.37E-05	5.59E-05
1	2	Surface	Nickel	mg/kg	5.75E+01	2.81E-05	1.06E-04	1.81E-08
1	2	Surface	PCB, Total	mg/kg	3.22E+01	1.58E-05	2.07E-04	1.71E-05
1	2	Surface	Silver	mg/kg	3.31E+01	1.62E-05	6.10E-05	1.05E-08
1	2	Surface	Thallium	mg/kg	3.70E-01	1.81E-07	8.51E-07	1.17E-10
1	2	Surface	Vanadium	mg/kg	3.49E+01	1.71E-05	4.17E-05	1.10E-08
1	3	Surface	Chromium	mg/kg	1.45E+01	7.08E-06	3.33E-05	4.57E-09
1	3	Surface	PCB, Total	mg/kg	2.17E-01	1.06E-07	1.40E-06	1.15E-07
1	3	Surface	Uranium-238	pCi/g	1.73E+00	8.46E-07		5.46E-10
1	4	Surface	Beryllium	mg/kg	7.25E-01	3.55E-07	2.33E-07	2.29E-10
1	4	Surface	Chromium	mg/kg	9.30E+01	4.55E-05	2.14E-04	2.94E-08
1	4	Surface	Cobalt-60	pCi/g	2.20E-02	1.08E-08		6.94E-12
1	4	Surface	Nickel	mg/kg	4.69E+01	2.29E-05	8.62E-05	1.48E-08
1	4	Surface	PCB, Total	mg/kg	1.30E-01	6.36E-08	8.37E-07	6.92E-08
1	4	Surface	Thorium-230	pCi/g	5.03E+00	2.46E-06		1.59E-09
1	5	Surface	Beryllium	mg/kg	8.30E+00	4.06E-06	2.67E-06	2.62E-09
1	5	Surface	Cadmium	mg/kg	1.20E+00	5.87E-07	5.52E-08	3.79E-10
1	5	Surface	Nickel	mg/kg	4.07E+01	1.99E-05	7.49E-05	1.28E-08
1	5	Surface	PCB, Total	mg/kg	2.70E-01	1.32E-07	1.74E-06	1.44E-07
1	5	Surface	Total PAH	mg/kg	9.83E-02	4.81E-08	5.88E-07	2.29E-09
12	1	Surface	Aluminum	mg/kg	8.19E+03	4.01E-03	1.88E-02	2.59E-06
12	1	Surface	Antimony	mg/kg	5.04E-01	2.47E-07	1.16E-06	1.59E-10
12	1	Surface	Arsenic	mg/kg	1.34E+01	6.55E-06	1.85E-05	4.23E-09
12	1	Surface	Barium	mg/kg	1.04E+02	5.07E-05	2.38E-04	3.27E-08
12	1	Surface	Beryllium	mg/kg	6.72E+00	3.29E-06	2.16E-06	2.12E-09
12	1	Surface	Cadmium	mg/kg	1.02E+00	4.99E-07	4.69E-08	3.22E-10
12	1	Surface	Chromium	mg/kg	6.33E+01	3.10E-05	1.46E-04	2.00E-08
12	1	Surface	Cobalt	mg/kg	9.16E+00	4.48E-06	2.11E-05	2.89E-09
12	1	Surface	Iron	mg/kg	3.01E+04	1.47E-02	6.91E-02	9.49E-06
12	1	Surface	Manganese	mg/kg	1.01E+03	4.96E-04	1.87E-03	3.20E-07
12	1	Surface	Mercury	mg/kg	8.80E+00	4.31E-06	2.02E-05	8.28E-05

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
12	1	Surface	Molybdenum	mg/kg	1.74E+01	8.52E-06	4.01E-05	5.50E-09
12	1	Surface	Nickel	mg/kg	7.74E+01	3.79E-05	1.42E-04	2.44E-08
12	1	Surface	PCB, Total	mg/kg	3.90E-01	1.91E-07	2.51E-06	2.08E-07
12	1	Surface	Silver	mg/kg	1.10E+01	5.39E-06	2.03E-05	3.48E-09
12	1	Surface	Thallium	mg/kg	1.03E+00	5.04E-07	2.37E-06	3.25E-10
12	1	Surface	Total PAH	mg/kg	1.70E-01	8.32E-08	1.02E-06	3.97E-09
12	1	Surface	Uranium	mg/kg	3.76E+02	1.84E-04	8.64E-04	1.19E-07
12	1	Surface	Uranium-234	pCi/g	1.50E+01	7.35E-06		4.74E-09
12	1	Surface	Uranium-235	pCi/g	1.53E+00	7.47E-07		4.82E-10
12	1	Surface	Uranium-238	pCi/g	6.68E+01	3.27E-05		2.11E-08
12	1	Surface	Vanadium	mg/kg	2.80E+01	1.37E-05	3.35E-05	8.85E-09
13	1	Surface	PCB, Total	mg/kg	7.00E-01	3.42E-07	4.51E-06	3.72E-07
13	4	Surface	Uranium-238	pCi/g	1.32E+00	6.46E-07		4.17E-10
13	5	Surface	Aluminum	mg/kg	1.13E+04	5.51E-03	2.59E-02	3.55E-06
13	5	Surface	Antimony	mg/kg	8.20E-01	4.01E-07	1.89E-06	2.59E-10
13	5	Surface	Cadmium	mg/kg	1.20E+00	5.87E-07	5.52E-08	3.79E-10
13	5	Surface	Chromium	mg/kg	1.51E+01	7.39E-06	3.47E-05	4.77E-09
13	5	Surface	Nickel	mg/kg	1.17E+02	5.70E-05	2.14E-04	3.68E-08
13	5	Surface	PCB, Total	mg/kg	1.05E+00	5.13E-07	6.75E-06	5.58E-07
13	5	Surface	Total PAH	mg/kg	6.65E-02	3.25E-08	3.97E-07	1.55E-09
13	5	Surface	Uranium	mg/kg	1.19E+02	5.83E-05	2.74E-04	3.76E-08
13	6	Surface	Uranium-238	pCi/g	1.32E+00	6.44E-07		4.15E-10
13	9	Surface	Neptunium-237	pCi/g	8.90E-01	4.35E-07		2.81E-10
13	9	Surface	Uranium	mg/kg	1.82E+01	8.90E-06	4.18E-05	5.74E-09
13	9	Surface	Uranium-235	pCi/g	3.11E-01	1.52E-07		9.82E-11
13	9	Surface	Uranium-238	pCi/g	6.08E+00	2.97E-06		1.92E-09
13	11	Surface	Cobalt-60	pCi/g	1.30E-02	6.36E-09		4.10E-12
14	1	Surface	Americium-241	pCi/g	1.27E+00	6.20E-07		4.00E-10
14	1	Surface	Arsenic	mg/kg	1.10E+01	5.37E-06	1.51E-05	3.47E-09
14	1	Surface	Chromium	mg/kg	6.36E+01	3.11E-05	1.46E-04	2.01E-08
14	1	Surface	Iron	mg/kg	1.89E+04	9.23E-03	4.34E-02	5.95E-06
14	1	Surface	Neptunium-237	pCi/g	2.14E-01	1.05E-07		6.75E-11
14	1	Surface	Nickel	mg/kg	1.40E+02	6.83E-05	2.57E-04	4.41E-08
14	1	Surface	PCB, Total	mg/kg	5.00E-01	2.45E-07	3.22E-06	2.66E-07
14	1	Surface	Silver	mg/kg	1.67E+01	8.17E-06	3.07E-05	5.27E-09
14	1	Surface	Technetium-99	pCi/g	4.06E+02	1.99E-04		1.28E-07
14	1	Surface	Uranium	mg/kg	7.21E+01	3.53E-05	1.66E-04	2.28E-08
14	1	Surface	Uranium-238	pCi/g	1.69E+00	8.27E-07		5.33E-10
14	2	Surface	Antimony	mg/kg	3.70E+00	1.81E-06	8.51E-06	1.17E-09
14	2	Surface	Arsenic	mg/kg	1.45E+01	7.11E-06	2.00E-05	4.59E-09
14	2	Surface	Beryllium	mg/kg	7.10E-01	3.47E-07	2.29E-07	2.24E-10
14	2	Surface	Chromium	mg/kg	6.65E+01	3.26E-05	1.53E-04	2.10E-08
14	2	Surface	Copper	mg/kg	1.76E+02	8.63E-05	4.06E-04	5.57E-08
14	2	Surface	Iron	mg/kg	3.72E+04	1.82E-02	8.55E-02	1.17E-05
14	2	Surface	Manganese	mg/kg	1.44E+03	7.05E-04	2.65E-03	4.55E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	2	Surface	Mercury	mg/kg	2.67E-01	1.31E-07	6.14E-07	2.51E-06
14	2	Surface	Neptunium-237	pCi/g	7.70E-01	3.77E-07		2.43E-10
14	2	Surface	Nickel	mg/kg	6.78E+02	3.32E-04	1.25E-03	2.14E-07
14	2	Surface	PCB, Total	mg/kg	3.90E-01	1.91E-07	2.51E-06	2.08E-07
14	2	Surface	Thorium-230	pCi/g	5.98E+00	2.93E-06		1.89E-09
14	2	Surface	Total PAH	mg/kg	3.38E-01	1.65E-07	2.02E-06	7.89E-09
14	2	Surface	Uranium	mg/kg	2.93E+02	1.43E-04	6.74E-04	9.26E-08
14	2	Surface	Uranium-234	pCi/g	3.24E+01	1.59E-05		1.02E-08
14	2	Surface	Uranium-235	pCi/g	2.00E+00	9.78E-07		6.31E-10
14	2	Surface	Uranium-238	pCi/g	5.61E+01	2.74E-05		1.77E-08
14	3	Surface	Arsenic	mg/kg	1.30E+01	6.35E-06	1.79E-05	4.09E-09
14	3	Surface	Chromium	mg/kg	7.01E+01	3.43E-05	1.61E-04	2.21E-08
14	3	Surface	Copper	mg/kg	1.29E+02	6.33E-05	2.97E-04	4.08E-08
14	3	Surface	Iron	mg/kg	3.48E+04	1.70E-02	8.01E-02	1.10E-05
14	3	Surface	Manganese	mg/kg	1.06E+03	5.17E-04	1.94E-03	3.34E-07
14	3	Surface	Mercury	mg/kg	7.48E+00	3.66E-06	1.72E-05	7.04E-05
14	3	Surface	Molybdenum	mg/kg	2.21E+01	1.08E-05	5.07E-05	6.97E-09
14	3	Surface	Nickel	mg/kg	5.76E+02	2.82E-04	1.06E-03	1.82E-07
14	3	Surface	PCB, Total	mg/kg	8.65E+00	4.23E-06	5.57E-05	4.60E-06
14	3	Surface	Uranium	mg/kg	2.18E+02	1.07E-04	5.01E-04	6.87E-08
14	3	Surface	Uranium-238	pCi/g	1.50E+00	7.34E-07		4.73E-10
14	4	Surface	Antimony	mg/kg	4.30E+00	2.10E-06	9.89E-06	1.36E-09
14	4	Surface	Arsenic	mg/kg	1.33E+01	6.50E-06	1.83E-05	4.19E-09
14	4	Surface	Chromium	mg/kg	7.20E+01	3.52E-05	1.66E-04	2.27E-08
14	4	Surface	Copper	mg/kg	3.54E+02	1.73E-04	8.13E-04	1.12E-07
14	4	Surface	Iron	mg/kg	3.88E+04	1.90E-02	8.93E-02	1.23E-05
14	4	Surface	Mercury	mg/kg	4.87E-01	2.38E-07	1.12E-06	4.58E-06
14	4	Surface	Neptunium-237	pCi/g	2.68E+00	1.31E-06		8.46E-10
14	4	Surface	Nickel	mg/kg	7.31E+02	3.57E-04	1.34E-03	2.31E-07
14	4	Surface	PCB, Total	mg/kg	6.61E+00	3.23E-06	4.25E-05	3.52E-06
14	4	Surface	Silver	mg/kg	1.17E+01	5.72E-06	2.15E-05	3.69E-09
14	4	Surface	Thorium-230	pCi/g	8.33E+00	4.08E-06		2.63E-09
14	4	Surface	Total PAH	mg/kg	2.51E-01	1.23E-07	1.50E-06	5.85E-09
14	4	Surface	Uranium	mg/kg	3.72E+02	1.82E-04	8.55E-04	1.17E-07
14	4	Surface	Uranium-234	pCi/g	1.13E+02	5.53E-05		3.57E-08
14	4	Surface	Uranium-235	pCi/g	8.00E+00	3.91E-06		2.53E-09
14	4	Surface	Uranium-238	pCi/g	1.69E+02	8.27E-05		5.33E-08
14	5	Surface	Antimony	mg/kg	2.30E+00	1.13E-06	5.29E-06	7.26E-10
14	5	Surface	Arsenic	mg/kg	1.31E+01	6.40E-06	1.80E-05	4.13E-09
14	5	Surface	Cadmium	mg/kg	3.90E+00	1.91E-06	1.79E-07	1.23E-09
14	5	Surface	Chromium	mg/kg	4.70E+01	2.30E-05	1.08E-04	1.48E-08
14	5	Surface	Cobalt	mg/kg	1.40E+01	6.85E-06	3.22E-05	4.42E-09
14	5	Surface	Copper	mg/kg	1.34E+02	6.53E-05	3.07E-04	4.21E-08
14	5	Surface	Iron	mg/kg	3.92E+04	1.92E-02	9.01E-02	1.24E-05
14	5	Surface	Manganese	mg/kg	8.28E+02	4.05E-04	1.52E-03	2.61E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	5	Surface	Mercury	mg/kg	1.09E+01	5.35E-06	2.52E-05	1.03E-04
14	5	Surface	Neptunium-237	pCi/g	1.74E+00	8.51E-07		5.49E-10
14	5	Surface	Nickel	mg/kg	4.61E+02	2.26E-04	8.49E-04	1.46E-07
14	5	Surface	PCB, Total	mg/kg	1.00E+00	4.89E-07	6.44E-06	5.32E-07
14	5	Surface	Silver	mg/kg	1.29E+01	6.30E-06	2.37E-05	4.06E-09
14	5	Surface	Technetium-99	pCi/g	1.01E+02	4.94E-05		3.19E-08
14	5	Surface	Thallium	mg/kg	4.10E-01	2.01E-07	9.43E-07	1.29E-10
14	5	Surface	Thorium-230	pCi/g	1.39E+01	6.80E-06		4.39E-09
14	5	Surface	Total PAH	mg/kg	1.21E-01	5.92E-08	7.23E-07	2.82E-09
14	5	Surface	Uranium	mg/kg	2.62E+02	1.28E-04	6.03E-04	8.28E-08
14	5	Surface	Uranium-234	pCi/g	5.22E+01	2.55E-05		1.65E-08
14	5	Surface	Uranium-235	pCi/g	3.33E+00	1.63E-06		1.05E-09
14	5	Surface	Uranium-238	pCi/g	9.42E+01	4.61E-05		2.97E-08
14	6	Surface	Antimony	mg/kg	2.70E+00	1.32E-06	6.21E-06	8.52E-10
14	6	Surface	Cadmium	mg/kg	8.40E-01	4.11E-07	3.86E-08	2.65E-10
14	6	Surface	Chromium	mg/kg	4.46E+02	2.18E-04	1.03E-03	1.41E-07
14	6	Surface	Copper	mg/kg	1.22E+02	5.98E-05	2.81E-04	3.86E-08
14	6	Surface	Mercury	mg/kg	3.47E-01	1.70E-07	7.98E-07	3.26E-06
14	6	Surface	Neptunium-237	pCi/g	2.65E+00	1.30E-06		8.36E-10
14	6	Surface	Nickel	mg/kg	9.63E+02	4.71E-04	1.77E-03	3.04E-07
14	6	Surface	PCB, Total	mg/kg	5.00E+00	2.45E-06	3.22E-05	2.66E-06
14	6	Surface	Silver	mg/kg	1.19E+01	5.81E-06	2.19E-05	3.75E-09
14	6	Surface	Uranium	mg/kg	5.79E+02	2.83E-04	1.33E-03	1.83E-07
14	6	Surface	Uranium-234	pCi/g	3.41E+01	1.67E-05		1.08E-08
14	6	Surface	Uranium-235	pCi/g	2.27E+00	1.11E-06		7.16E-10
14	6	Surface	Uranium-238	pCi/g	5.08E+01	2.49E-05		1.60E-08
14	7	Surface	Antimony	mg/kg	7.50E-01	3.67E-07	1.72E-06	2.37E-10
14	7	Surface	Arsenic	mg/kg	1.13E+01	5.53E-06	1.56E-05	3.57E-09
14	7	Surface	Cadmium	mg/kg	2.70E+00	1.32E-06	1.24E-07	8.52E-10
14	7	Surface	Chromium	mg/kg	6.46E+01	3.16E-05	1.48E-04	2.04E-08
14	7	Surface	Mercury	mg/kg	7.82E+00	3.83E-06	1.80E-05	7.36E-05
14	7	Surface	Neptunium-237	pCi/g	1.49E+00	7.29E-07		4.70E-10
14	7	Surface	Nickel	mg/kg	1.22E+03	5.98E-04	2.25E-03	3.86E-07
14	7	Surface	PCB, Total	mg/kg	7.60E+00	3.72E-06	4.90E-05	4.05E-06
14	7	Surface	Total PAH	mg/kg	6.31E-02	3.09E-08	3.77E-07	1.47E-09
14	7	Surface	Uranium	mg/kg	3.33E+02	1.63E-04	7.65E-04	1.05E-07
14	7	Surface	Uranium-234	pCi/g	1.28E+01	6.26E-06		4.04E-09
14	7	Surface	Uranium-235	pCi/g	9.60E-01	4.70E-07		3.03E-10
14	7	Surface	Uranium-238	pCi/g	2.13E+01	1.04E-05		6.72E-09
14	8	Surface	Antimony	mg/kg	6.10E-01	2.98E-07	1.40E-06	1.93E-10
14	8	Surface	Arsenic	mg/kg	1.14E+01	5.57E-06	1.57E-05	3.59E-09
14	8	Surface	Chromium	mg/kg	4.60E+01	2.25E-05	1.06E-04	1.45E-08
14	8	Surface	Mercury	mg/kg	7.90E+00	3.86E-06	1.82E-05	7.43E-05
14	8	Surface	Neptunium-237	pCi/g	8.80E-01	4.31E-07		2.78E-10
14	8	Surface	Nickel	mg/kg	6.73E+02	3.29E-04	1.24E-03	2.12E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	8	Surface	PCB, Total	mg/kg	5.00E+00	2.45E-06	3.22E-05	2.66E-06
14	8	Surface	Silver	mg/kg	9.63E+00	4.71E-06	1.77E-05	3.04E-09
14	8	Surface	Total PAH	mg/kg	6.28E-02	3.07E-08	3.75E-07	1.46E-09
14	8	Surface	Uranium	mg/kg	3.35E+02	1.64E-04	7.71E-04	1.06E-07
14	8	Surface	Uranium-235	pCi/g	2.38E-01	1.16E-07		7.51E-11
14	8	Surface	Uranium-238	pCi/g	5.92E+00	2.90E-06		1.87E-09
14	9	Surface	Antimony	mg/kg	2.00E+00	9.78E-07	4.60E-06	6.31E-10
14	9	Surface	Arsenic	mg/kg	1.40E+01	6.87E-06	1.94E-05	4.43E-09
14	9	Surface	Cadmium	mg/kg	9.40E-01	4.60E-07	4.32E-08	2.97E-10
14	9	Surface	Cesium-137	pCi/g	4.53E-01	2.22E-07		1.43E-10
14	9	Surface	Chromium	mg/kg	4.64E+01	2.27E-05	1.07E-04	1.47E-08
14	9	Surface	Mercury	mg/kg	1.13E+00	5.53E-07	2.60E-06	1.06E-05
14	9	Surface	Neptunium-237	pCi/g	1.09E+01	5.35E-06		3.45E-09
14	9	Surface	Nickel	mg/kg	9.43E+02	4.62E-04	1.74E-03	2.98E-07
14	9	Surface	PCB, Total	mg/kg	6.84E+00	3.35E-06	4.41E-05	3.64E-06
14	9	Surface	Technetium-99	pCi/g	1.96E+02	9.58E-05		6.18E-08
14	9	Surface	Total PAH	mg/kg	4.87E-01	2.38E-07	2.91E-06	1.14E-08
14	9	Surface	Uranium	mg/kg	1.46E+03	7.16E-04	3.37E-03	4.62E-07
14	9	Surface	Uranium-234	pCi/g	8.32E+02	4.07E-04		2.63E-07
14	9	Surface	Uranium-235	pCi/g	5.46E+01	2.67E-05		1.72E-08
14	9	Surface	Uranium-238	pCi/g	1.20E+03	5.87E-04		3.79E-07
14	10	Surface	Antimony	mg/kg	9.40E-01	4.60E-07	2.16E-06	2.97E-10
14	10	Surface	Arsenic	mg/kg	1.12E+01	5.50E-06	1.55E-05	3.55E-09
14	10	Surface	Chromium	mg/kg	4.19E+01	2.05E-05	9.62E-05	1.32E-08
14	10	Surface	Copper	mg/kg	1.41E+02	6.91E-05	3.25E-04	4.46E-08
14	10	Surface	Iron	mg/kg	2.75E+04	1.34E-02	6.31E-02	8.66E-06
14	10	Surface	Mercury	mg/kg	2.51E+01	1.23E-05	5.77E-05	2.36E-04
14	10	Surface	Neptunium-237	pCi/g	2.64E+00	1.29E-06		8.33E-10
14	10	Surface	Nickel	mg/kg	6.00E+02	2.94E-04	1.10E-03	1.90E-07
14	10	Surface	PCB, Total	mg/kg	9.38E+00	4.59E-06	6.04E-05	4.99E-06
14	10	Surface	Total PAH	mg/kg	2.72E-01	1.33E-07	1.62E-06	6.34E-09
14	10	Surface	Uranium	mg/kg	2.88E+02	1.41E-04	6.63E-04	9.10E-08
14	10	Surface	Uranium-234	pCi/g	2.42E+01	1.18E-05		7.64E-09
14	10	Surface	Uranium-235	pCi/g	1.76E+00	8.61E-07		5.56E-10
14	10	Surface	Uranium-238	pCi/g	4.09E+01	2.00E-05		1.29E-08
15	1	Surface	Antimony	mg/kg	6.40E-01	3.13E-07	1.47E-06	2.02E-10
15	1	Surface	Arsenic	mg/kg	1.24E+01	6.05E-06	1.71E-05	3.90E-09
15	1	Surface	Chromium	mg/kg	5.61E+01	2.74E-05	1.29E-04	1.77E-08
15	1	Surface	Copper	mg/kg	1.95E+02	9.53E-05	4.48E-04	6.15E-08
15	1	Surface	Iron	mg/kg	2.95E+04	1.44E-02	6.79E-02	9.32E-06
15	1	Surface	Nickel	mg/kg	1.33E+02	6.49E-05	2.44E-04	4.19E-08
15	1	Surface	PCB, Total	mg/kg	7.80E-02	3.82E-08	5.02E-07	4.15E-08
15	1	Surface	Silver	mg/kg	1.23E+01	6.01E-06	2.26E-05	3.88E-09
15	1	Surface	Total PAH	mg/kg	1.71E+00	8.39E-07	1.02E-05	4.00E-08
15	1	Surface	Uranium	mg/kg	3.09E+01	1.51E-05	7.11E-05	9.76E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	1	Surface	Uranium-238	pCi/g	1.85E+00	9.05E-07		5.84E-10
15	2	Surface	Antimony	mg/kg	6.60E-01	3.23E-07	1.52E-06	2.08E-10
15	2	Surface	Arsenic	mg/kg	1.63E+01	7.95E-06	2.24E-05	5.13E-09
15	2	Surface	Chromium	mg/kg	5.90E+01	2.89E-05	1.36E-04	1.86E-08
15	2	Surface	Iron	mg/kg	3.89E+04	1.90E-02	8.94E-02	1.23E-05
15	2	Surface	Mercury	mg/kg	9.33E+00	4.56E-06	2.15E-05	8.78E-05
15	2	Surface	Neptunium-237	pCi/g	1.35E-01	6.60E-08		4.26E-11
15	2	Surface	Nickel	mg/kg	1.97E+02	9.65E-05	3.63E-04	6.23E-08
15	2	Surface	PCB, Total	mg/kg	3.30E-01	1.61E-07	2.12E-06	1.76E-07
15	2	Surface	Total PAH	mg/kg	2.11E+00	1.03E-06	1.26E-05	4.92E-08
15	2	Surface	Uranium	mg/kg	1.32E+02	6.44E-05	3.03E-04	4.16E-08
15	2	Surface	Uranium-234	pCi/g	6.51E+00	3.18E-06		2.05E-09
15	2	Surface	Uranium-235	pCi/g	3.80E-01	1.86E-07		1.20E-10
15	2	Surface	Uranium-238	pCi/g	1.21E+01	5.92E-06		3.82E-09
15	3	Surface	Antimony	mg/kg	2.45E+01	1.20E-05	5.63E-05	7.73E-09
15	3	Surface	Arsenic	mg/kg	2.60E+01	1.27E-05	3.59E-05	8.20E-09
15	3	Surface	Beryllium	mg/kg	7.60E-01	3.72E-07	2.45E-07	2.40E-10
15	3	Surface	Cadmium	mg/kg	1.19E+01	5.82E-06	5.47E-07	3.76E-09
15	3	Surface	Chromium	mg/kg	7.53E+01	3.69E-05	1.73E-04	2.38E-08
15	3	Surface	Cobalt	mg/kg	3.41E+01	1.67E-05	7.84E-05	1.08E-08
15	3	Surface	Copper	mg/kg	1.40E+03	6.83E-04	3.21E-03	4.41E-07
15	3	Surface	Iron	mg/kg	9.20E+04	4.50E-02	2.12E-01	2.90E-05
15	3	Surface	Manganese	mg/kg	1.60E+03	7.85E-04	2.95E-03	5.06E-07
15	3	Surface	Mercury	mg/kg	2.74E+00	1.34E-06	6.30E-06	2.58E-05
15	3	Surface	Molybdenum	mg/kg	1.70E+01	8.32E-06	3.91E-05	5.37E-09
15	3	Surface	Neptunium-237	pCi/g	4.10E+00	2.01E-06		1.29E-09
15	3	Surface	Nickel	mg/kg	7.57E+02	3.70E-04	1.39E-03	2.39E-07
15	3	Surface	PCB, Total	mg/kg	6.82E+00	3.34E-06	4.39E-05	3.63E-06
15	3	Surface	Selenium	mg/kg	2.65E+01	1.29E-05	6.08E-05	8.35E-09
15	3	Surface	Silver	mg/kg	3.20E+00	1.57E-06	5.89E-06	1.01E-09
15	3	Surface	Technetium-99	pCi/g	3.67E+02	1.80E-04		1.16E-07
15	3	Surface	Thorium-230	pCi/g	7.23E+00	3.54E-06		2.28E-09
15	3	Surface	Total PAH	mg/kg	1.45E+00	7.11E-07	8.69E-06	3.39E-08
15	3	Surface	Uranium	mg/kg	2.16E+02	1.06E-04	4.97E-04	6.82E-08
15	3	Surface	Uranium-234	pCi/g	6.96E+01	3.41E-05		2.20E-08
15	3	Surface	Uranium-235	pCi/g	4.21E+00	2.06E-06		1.33E-09
15	3	Surface	Uranium-238	pCi/g	9.67E+01	4.73E-05		3.05E-08
15	3	Surface	Zinc	mg/kg	8.79E+02	4.30E-04	2.02E-03	2.77E-07
15	4	Surface	Antimony	mg/kg	7.40E+00	3.62E-06	1.70E-05	2.34E-09
15	4	Surface	Arsenic	mg/kg	3.47E+01	1.70E-05	4.78E-05	1.09E-08
15	4	Surface	Cadmium	mg/kg	1.40E+00	6.85E-07	6.44E-08	4.42E-10
15	4	Surface	Chromium	mg/kg	1.02E+02	5.00E-05	2.35E-04	3.23E-08
15	4	Surface	Copper	mg/kg	7.05E+02	3.45E-04	1.62E-03	2.23E-07
15	4	Surface	Iron	mg/kg	7.81E+04	3.82E-02	1.80E-01	2.47E-05
15	4	Surface	Manganese	mg/kg	1.54E+03	7.51E-04	2.83E-03	4.85E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	4	Surface	Mercury	mg/kg	1.41E+01	6.89E-06	3.24E-05	1.33E-04
15	4	Surface	Neptunium-237	pCi/g	8.00E-01	3.91E-07		2.53E-10
15	4	Surface	Nickel	mg/kg	1.37E+03	6.72E-04	2.53E-03	4.34E-07
15	4	Surface	PCB, Total	mg/kg	2.67E+01	1.31E-05	1.72E-04	1.42E-05
15	4	Surface	Silver	mg/kg	1.46E+01	7.14E-06	2.69E-05	4.61E-09
15	4	Surface	Total PAH	mg/kg	2.44E+00	1.20E-06	1.46E-05	5.71E-08
15	4	Surface	Uranium	mg/kg	1.57E+02	7.66E-05	3.60E-04	4.94E-08
15	4	Surface	Uranium-234	pCi/g	1.07E+01	5.23E-06		3.38E-09
15	4	Surface	Uranium-235	pCi/g	4.30E-01	2.10E-07		1.36E-10
15	4	Surface	Uranium-238	pCi/g	1.87E+01	9.15E-06		5.90E-09
15	4	Surface	Zinc	mg/kg	1.19E+03	5.82E-04	2.73E-03	3.75E-07
15	5	Surface	Antimony	mg/kg	3.10E+00	1.52E-06	7.13E-06	9.78E-10
15	5	Surface	Arsenic	mg/kg	1.28E+01	6.26E-06	1.76E-05	4.04E-09
15	5	Surface	Cadmium	mg/kg	1.50E+00	7.34E-07	6.90E-08	4.73E-10
15	5	Surface	Chromium	mg/kg	4.28E+01	2.09E-05	9.84E-05	1.35E-08
15	5	Surface	Copper	mg/kg	5.63E+03	2.76E-03	1.30E-02	1.78E-06
15	5	Surface	Mercury	mg/kg	3.38E-01	1.65E-07	7.77E-07	3.18E-06
15	5	Surface	Neptunium-237	pCi/g	6.90E-01	3.38E-07		2.18E-10
15	5	Surface	Nickel	mg/kg	5.10E+02	2.50E-04	9.39E-04	1.61E-07
15	5	Surface	PCB, Total	mg/kg	2.51E+01	1.23E-05	1.62E-04	1.34E-05
15	5	Surface	Silver	mg/kg	1.46E+01	7.14E-06	2.69E-05	4.61E-09
15	5	Surface	Technetium-99	pCi/g	1.07E+02	5.23E-05		3.38E-08
15	5	Surface	Total PAH	mg/kg	5.11E-01	2.50E-07	3.05E-06	1.19E-08
15	5	Surface	Uranium	mg/kg	2.13E+02	1.04E-04	4.91E-04	6.74E-08
15	5	Surface	Uranium-234	pCi/g	5.83E+00	2.85E-06		1.84E-09
15	5	Surface	Uranium-235	pCi/g	4.60E-01	2.25E-07		1.45E-10
15	5	Surface	Uranium-238	pCi/g	1.03E+01	5.04E-06		3.25E-09
15	5	Surface	Zinc	mg/kg	1.52E+03	7.46E-04	3.50E-03	4.81E-07
15	6	Surface	Antimony	mg/kg	5.10E+00	2.50E-06	1.17E-05	1.61E-09
15	6	Surface	Arsenic	mg/kg	1.24E+01	6.08E-06	1.71E-05	3.92E-09
15	6	Surface	Cadmium	mg/kg	1.50E+00	7.34E-07	6.90E-08	4.73E-10
15	6	Surface	Chromium	mg/kg	5.80E+01	2.84E-05	1.33E-04	1.83E-08
15	6	Surface	Cobalt	mg/kg	1.62E+01	7.93E-06	3.73E-05	5.11E-09
15	6	Surface	Copper	mg/kg	4.23E+02	2.07E-04	9.72E-04	1.33E-07
15	6	Surface	Iron	mg/kg	3.15E+04	1.54E-02	7.24E-02	9.94E-06
15	6	Surface	Mercury	mg/kg	4.10E-01	2.01E-07	9.43E-07	3.86E-06
15	6	Surface	Neptunium-237	pCi/g	6.40E-01	3.13E-07		2.02E-10
15	6	Surface	Nickel	mg/kg	3.24E+02	1.59E-04	5.96E-04	1.02E-07
15	6	Surface	PCB, Total	mg/kg	6.17E+00	3.02E-06	3.97E-05	3.28E-06
15	6	Surface	Silver	mg/kg	1.09E+01	5.34E-06	2.01E-05	3.44E-09
15	6	Surface	Total PAH	mg/kg	1.62E+00	7.94E-07	9.71E-06	3.79E-08
15	6	Surface	Uranium	mg/kg	6.70E+01	3.28E-05	1.54E-04	2.12E-08
15	6	Surface	Uranium-234	pCi/g	8.74E+00	4.28E-06		2.76E-09
15	6	Surface	Uranium-235	pCi/g	5.70E-01	2.79E-07		1.80E-10
15	6	Surface	Uranium-238	pCi/g	1.54E+01	7.53E-06		4.86E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	7	Surface	Antimony	mg/kg	7.50E-01	3.67E-07	1.72E-06	2.37E-10
15	7	Surface	Arsenic	mg/kg	1.61E+01	7.87E-06	2.22E-05	5.08E-09
15	7	Surface	Cadmium	mg/kg	1.00E+00	4.89E-07	4.60E-08	3.16E-10
15	7	Surface	Chromium	mg/kg	7.87E+01	3.85E-05	1.81E-04	2.48E-08
15	7	Surface	Copper	mg/kg	7.33E+02	3.59E-04	1.69E-03	2.31E-07
15	7	Surface	Iron	mg/kg	3.42E+04	1.67E-02	7.87E-02	1.08E-05
15	7	Surface	Manganese	mg/kg	1.11E+03	5.41E-04	2.03E-03	3.49E-07
15	7	Surface	Neptunium-237	pCi/g	2.23E-01	1.09E-07		7.04E-11
15	7	Surface	Nickel	mg/kg	5.59E+02	2.73E-04	1.03E-03	1.76E-07
15	7	Surface	PCB, Total	mg/kg	2.57E+01	1.26E-05	1.65E-04	1.37E-05
15	7	Surface	Silver	mg/kg	1.29E+01	6.29E-06	2.37E-05	4.06E-09
15	7	Surface	Total PAH	mg/kg	1.59E-01	7.77E-08	9.50E-07	3.71E-09
15	7	Surface	Uranium	mg/kg	5.39E+01	2.64E-05	1.24E-04	1.70E-08
15	7	Surface	Uranium-234	pCi/g	6.49E+00	3.18E-06		2.05E-09
15	7	Surface	Uranium-235	pCi/g	4.50E-01	2.20E-07		1.42E-10
15	7	Surface	Uranium-238	pCi/g	8.05E+00	3.94E-06		2.54E-09
15	7	Surface	Zinc	mg/kg	5.87E+02	2.87E-04	1.35E-03	1.85E-07
15	8	Surface	Antimony	mg/kg	5.40E+00	2.64E-06	1.24E-05	1.70E-09
15	8	Surface	Arsenic	mg/kg	1.17E+01	5.70E-06	1.61E-05	3.68E-09
15	8	Surface	Chromium	mg/kg	7.74E+01	3.79E-05	1.78E-04	2.44E-08
15	8	Surface	Copper	mg/kg	1.62E+02	7.92E-05	3.72E-04	5.11E-08
15	8	Surface	Iron	mg/kg	2.83E+04	1.38E-02	6.50E-02	8.92E-06
15	8	Surface	Mercury	mg/kg	1.00E+01	4.91E-06	2.31E-05	9.45E-05
15	8	Surface	Neptunium-237	pCi/g	3.65E-01	1.79E-07		1.15E-10
15	8	Surface	Nickel	mg/kg	1.82E+02	8.89E-05	3.34E-04	5.74E-08
15	8	Surface	PCB, Total	mg/kg	4.90E+00	2.40E-06	3.15E-05	2.61E-06
15	8	Surface	Silver	mg/kg	1.36E+01	6.63E-06	2.49E-05	4.28E-09
15	8	Surface	Total PAH	mg/kg	3.59E-01	1.76E-07	2.15E-06	8.37E-09
15	8	Surface	Uranium	mg/kg	4.46E+01	2.18E-05	1.02E-04	1.41E-08
15	8	Surface	Uranium-235	pCi/g	3.04E-01	1.49E-07		9.60E-11
15	8	Surface	Uranium-238	pCi/g	6.64E+00	3.25E-06		2.10E-09
15	9	Surface	Arsenic	mg/kg	1.10E+01	5.40E-06	1.52E-05	3.48E-09
15	9	Surface	Chromium	mg/kg	9.56E+01	4.68E-05	2.20E-04	3.02E-08
15	9	Surface	Copper	mg/kg	1.36E+02	6.64E-05	3.12E-04	4.29E-08
15	9	Surface	Iron	mg/kg	2.76E+04	1.35E-02	6.34E-02	8.71E-06
15	9	Surface	Neptunium-237	pCi/g	1.28E-01	6.26E-08		4.04E-11
15	9	Surface	Nickel	mg/kg	1.49E+02	7.28E-05	2.74E-04	4.70E-08
15	9	Surface	PCB, Total	mg/kg	3.30E-01	1.61E-07	2.12E-06	1.76E-07
15	9	Surface	Silver	mg/kg	1.54E+01	7.54E-06	2.84E-05	4.87E-09
15	9	Surface	Total PAH	mg/kg	2.38E-01	1.17E-07	1.42E-06	5.56E-09
15	9	Surface	Uranium	mg/kg	3.07E+01	1.50E-05	7.05E-05	9.68E-09
15	9	Surface	Uranium-235	pCi/g	2.42E-01	1.18E-07		7.64E-11
15	9	Surface	Uranium-238	pCi/g	7.12E+00	3.48E-06		2.25E-09
15	10	Surface	Chromium	mg/kg	3.55E+01	1.74E-05	8.16E-05	1.12E-08
15	10	Surface	Mercury	mg/kg	7.84E+00	3.84E-06	1.80E-05	7.38E-05

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	10	Surface	Nickel	mg/kg	1.46E+02	7.13E-05	2.68E-04	4.60E-08
15	10	Surface	Silver	mg/kg	1.08E+01	5.29E-06	1.99E-05	3.41E-09
15	10	Surface	Total PAH	mg/kg	1.28E-01	6.28E-08	7.68E-07	3.00E-09
15	10	Surface	Uranium	mg/kg	6.47E+01	3.17E-05	1.49E-04	2.04E-08
16	1	Surface	Cesium-137	pCi/g	1.10E+00	5.38E-07		3.47E-10
16	1	Surface	PCB, Total	mg/kg	9.60E-02	4.70E-08	6.18E-07	5.11E-08
16	1	Surface	Total PAH	mg/kg	2.72E-02	1.33E-08	1.63E-07	6.35E-10
16	2	Surface	Beryllium	mg/kg	8.40E-01	4.11E-07	2.70E-07	2.65E-10
16	2	Surface	Chromium	mg/kg	2.04E+01	9.98E-06	4.69E-05	6.44E-09
16	2	Surface	Nickel	mg/kg	2.16E+01	1.06E-05	3.97E-05	6.82E-09
16	3	Surface	PCB, Total	mg/kg	9.49E-01	4.64E-07	6.11E-06	5.05E-07
16	4	Surface	Cesium-137	pCi/g	3.66E+01	1.79E-05		1.15E-08
16	4	Surface	Cobalt-60	pCi/g	8.53E-03	4.17E-09		2.69E-12
16	4	Surface	Neptunium-237	pCi/g	7.12E+00	3.48E-06		2.25E-09
16	4	Surface	PCB, Total	mg/kg	3.20E-01	1.57E-07	2.06E-06	1.70E-07
16	4	Surface	Technetium-99	pCi/g	2.96E+02	1.45E-04		9.33E-08
16	4	Surface	Thorium-230	pCi/g	5.29E+00	2.59E-06		1.67E-09
16	4	Surface	Total PAH	mg/kg	2.93E+00	1.43E-06	1.75E-05	6.83E-08
16	4	Surface	Uranium-234	pCi/g	1.19E+02	5.82E-05		3.76E-08
16	4	Surface	Uranium-235	pCi/g	8.23E+00	4.03E-06		2.60E-09
16	4	Surface	Uranium-238	pCi/g	2.70E+02	1.32E-04		8.52E-08
19	1	Surface	Beryllium	mg/kg	1.10E+00	5.38E-07	3.54E-07	3.47E-10
19	1	Surface	Cadmium	mg/kg	1.20E+00	5.87E-07	5.52E-08	3.79E-10
19	1	Surface	Thallium	mg/kg	9.80E-01	4.79E-07	2.25E-06	3.09E-10
19	1	Surface	Total PAH	mg/kg	5.23E+00	2.56E-06	3.12E-05	1.22E-07
26	1	Surface	Arsenic	mg/kg	1.29E+01	6.30E-06	1.78E-05	4.07E-09
26	1	Surface	Beryllium	mg/kg	6.69E-01	3.27E-07	2.15E-07	2.11E-10
26	1	Surface	Cadmium	mg/kg	1.99E+00	9.75E-07	9.17E-08	6.29E-10
26	1	Surface	Cesium-137	pCi/g	3.16E+00	1.55E-06		9.99E-10
26	1	Surface	Chromium	mg/kg	1.90E+01	9.30E-06	4.37E-05	6.00E-09
26	1	Surface	Cobalt-60	pCi/g	1.93E-03	9.44E-10		6.09E-13
26	1	Surface	Mercury	mg/kg	1.66E-01	8.12E-08	3.82E-07	1.56E-06
26	1	Surface	Neptunium-237	pCi/g	2.61E-01	1.28E-07		8.24E-11
26	1	Surface	Nickel	mg/kg	1.76E+01	8.61E-06	3.24E-05	5.55E-09
26	1	Surface	PCB, Total	mg/kg	9.33E-01	4.56E-07	6.01E-06	4.96E-07
26	1	Surface	Plutonium-239/240	pCi/g	4.04E+00	1.97E-06		1.27E-09
26	1	Surface	Thorium-230	pCi/g	3.82E+00	1.87E-06		1.20E-09
26	1	Surface	Total PAH	mg/kg	5.00E-02	2.45E-08	2.99E-07	1.17E-09
26	1	Surface	Uranium	mg/kg	1.29E+02	6.30E-05	2.96E-04	4.06E-08
26	1	Surface	Uranium-234	pCi/g	4.67E+00	2.28E-06		1.47E-09
26	1	Surface	Uranium-235	pCi/g	6.41E-01	3.14E-07		2.02E-10
26	1	Surface	Uranium-238	pCi/g	3.47E+01	1.70E-05		1.09E-08
26	2	Surface	Aluminum	mg/kg	2.17E+04	1.06E-02	4.98E-02	6.84E-06
26	2	Surface	Arsenic	mg/kg	4.72E+01	2.31E-05	6.51E-05	1.49E-08
26	2	Surface	Barium	mg/kg	1.49E+02	7.27E-05	3.42E-04	4.69E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
26	2	Surface	Beryllium	mg/kg	9.69E+00	4.74E-06	3.12E-06	3.06E-09
26	2	Surface	Cadmium	mg/kg	2.38E+00	1.16E-06	1.09E-07	7.52E-10
26	2	Surface	Cesium-137	pCi/g	5.92E+00	2.90E-06		1.87E-09
26	2	Surface	Chromium	mg/kg	3.90E+01	1.91E-05	8.97E-05	1.23E-08
26	2	Surface	Cobalt	mg/kg	5.20E+01	2.54E-05	1.20E-04	1.64E-08
26	2	Surface	Copper	mg/kg	1.31E+02	6.41E-05	3.01E-04	4.13E-08
26	2	Surface	Iron	mg/kg	5.32E+04	2.60E-02	1.22E-01	1.68E-05
26	2	Surface	Neptunium-237	pCi/g	7.89E-01	3.86E-07		2.49E-10
26	2	Surface	Nickel	mg/kg	1.13E+02	5.53E-05	2.08E-04	3.57E-08
26	2	Surface	PCB, Total	mg/kg	2.23E+00	1.09E-06	1.44E-05	1.19E-06
26	2	Surface	Thallium	mg/kg	1.39E+01	6.80E-06	3.20E-05	4.39E-09
26	2	Surface	Thorium-230	pCi/g	1.51E+01	7.40E-06		4.78E-09
26	2	Surface	Uranium	mg/kg	6.46E+02	3.16E-04	1.49E-03	2.04E-07
26	2	Surface	Uranium-234	pCi/g	1.91E+01	9.33E-06		6.02E-09
26	2	Surface	Uranium-235	pCi/g	1.71E+00	8.35E-07		5.39E-10
26	2	Surface	Uranium-238	pCi/g	5.14E+01	2.52E-05		1.62E-08
26	2	Surface	Vanadium	mg/kg	3.13E+01	1.53E-05	3.74E-05	9.86E-09
26	3	Surface	Aluminum	mg/kg	9.55E+03	4.67E-03	2.20E-02	3.01E-06
26	3	Surface	Antimony	mg/kg	1.40E+00	6.85E-07	3.22E-06	4.42E-10
26	3	Surface	Arsenic	mg/kg	5.09E+01	2.49E-05	7.02E-05	1.61E-08
26	3	Surface	Barium	mg/kg	4.48E+02	2.19E-04	1.03E-03	1.41E-07
26	3	Surface	Beryllium	mg/kg	2.54E+00	1.24E-06	8.16E-07	8.00E-10
26	3	Surface	Cadmium	mg/kg	2.34E+00	1.14E-06	1.08E-07	7.39E-10
26	3	Surface	Cesium-137	pCi/g	7.48E-01	3.66E-07		2.36E-10
26	3	Surface	Chromium	mg/kg	3.25E+01	1.59E-05	7.48E-05	1.03E-08
26	3	Surface	Cobalt	mg/kg	1.21E+01	5.92E-06	2.78E-05	3.82E-09
26	3	Surface	Mercury	mg/kg	3.87E-01	1.89E-07	8.90E-07	3.64E-06
26	3	Surface	Naphthalene	mg/kg	1.32E+00	6.46E-07	1.52E-05	1.39E-05
26	3	Surface	Neptunium-237	pCi/g	7.53E-01	3.68E-07		2.38E-10
26	3	Surface	Nickel	mg/kg	2.97E+01	1.45E-05	5.46E-05	9.37E-09
26	3	Surface	PCB, Total	mg/kg	2.52E+00	1.23E-06	1.62E-05	1.34E-06
26	3	Surface	Silver	mg/kg	2.59E+01	1.27E-05	4.76E-05	8.17E-09
26	3	Surface	Technetium-99	pCi/g	6.48E+01	3.17E-05		2.04E-08
26	3	Surface	Thallium	mg/kg	6.00E-01	2.94E-07	1.38E-06	1.89E-10
26	3	Surface	Thorium-230	pCi/g	7.10E+00	3.47E-06		2.24E-09
26	3	Surface	Total PAH	mg/kg	1.19E+00	5.81E-07	7.10E-06	2.77E-08
26	3	Surface	Uranium	mg/kg	9.88E+01	4.83E-05	2.27E-04	3.12E-08
26	3	Surface	Uranium-234	pCi/g	4.63E+01	2.27E-05		1.46E-08
26	3	Surface	Uranium-235	pCi/g	1.69E+00	8.27E-07		5.34E-10
26	3	Surface	Uranium-238	pCi/g	5.19E+01	2.54E-05		1.64E-08
26	3	Surface	Vanadium	mg/kg	3.77E+01	1.84E-05	4.50E-05	1.19E-08
26	4	Surface	Aluminum	mg/kg	1.07E+04	5.22E-03	2.45E-02	3.37E-06
26	4	Surface	Americium-241	pCi/g	1.27E+00	6.23E-07		4.02E-10
26	4	Surface	Antimony	mg/kg	6.00E-01	2.94E-07	1.38E-06	1.89E-10
26	4	Surface	Beryllium	mg/kg	6.91E-01	3.38E-07	2.22E-07	2.18E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
26	4	Surface	Cadmium	mg/kg	1.99E+00	9.74E-07	9.16E-08	6.28E-10
26	4	Surface	Cesium-137	pCi/g	6.38E-01	3.12E-07		2.01E-10
26	4	Surface	Chromium	mg/kg	8.57E+01	4.19E-05	1.97E-04	2.71E-08
26	4	Surface	Cobalt-60	pCi/g	1.21E-03	5.92E-10		3.82E-13
26	4	Surface	Copper	mg/kg	1.16E+02	5.67E-05	2.66E-04	3.66E-08
26	4	Surface	Mercury	mg/kg	3.07E+00	1.50E-06	7.06E-06	2.89E-05
26	4	Surface	Neptunium-237	pCi/g	1.36E+01	6.64E-06		4.28E-09
26	4	Surface	Nickel	mg/kg	7.54E+01	3.69E-05	1.39E-04	2.38E-08
26	4	Surface	PCB, Total	mg/kg	5.54E-01	2.71E-07	3.57E-06	2.95E-07
26	4	Surface	Plutonium-239/240	pCi/g	5.00E+00	2.45E-06		1.58E-09
26	4	Surface	Technetium-99	pCi/g	5.97E+02	2.92E-04		1.89E-07
26	4	Surface	Thorium-230	pCi/g	3.26E+01	1.60E-05		1.03E-08
26	4	Surface	Total PAH	mg/kg	2.83E-02	1.39E-08	1.69E-07	6.61E-10
26	4	Surface	Uranium	mg/kg	9.75E+02	4.77E-04	2.24E-03	3.08E-07
26	4	Surface	Uranium-234	pCi/g	1.54E+02	7.55E-05		4.87E-08
26	4	Surface	Uranium-235	pCi/g	8.80E+00	4.31E-06		2.78E-09
26	4	Surface	Uranium-235	pCi/g	3.19E+01	1.56E-05		1.01E-08
26	4	Surface	Uranium-238	pCi/g				
47	1	Surface	Aluminum	mg/kg	1.50E+04	7.34E-03	3.45E-02	4.73E-06
47	1	Surface	Antimony	mg/kg	9.00E-01	4.40E-07	2.07E-06	2.84E-10
47	1	Surface	Arsenic	mg/kg	4.52E+01	2.21E-05	6.24E-05	1.43E-08
47	1	Surface	Beryllium	mg/kg	7.00E-01	3.42E-07	2.25E-07	2.21E-10
47	1	Surface	Cadmium	mg/kg	4.25E+00	2.08E-06	1.95E-07	1.34E-09
47	1	Surface	Chromium	mg/kg	5.39E+01	2.64E-05	1.24E-04	1.70E-08
47	1	Surface	Cobalt	mg/kg	1.43E+01	7.00E-06	3.29E-05	4.51E-09
47	1	Surface	Iron	mg/kg	2.95E+04	1.44E-02	6.78E-02	9.31E-06
47	1	Surface	Naphthalene	mg/kg	1.90E+00	9.30E-07	2.18E-05	2.00E-05
47	1	Surface	Neptunium-237	pCi/g	1.15E-01	5.63E-08		3.63E-11
47	1	Surface	Nickel	mg/kg	8.25E+01	4.04E-05	1.52E-04	2.60E-08
47	1	Surface	PCB, Total	mg/kg	9.60E-01	4.70E-07	6.18E-06	5.11E-07
47	1	Surface	Plutonium-239/240	pCi/g	4.11E+00	2.01E-06		1.30E-09
47	1	Surface	Pyrene	mg/kg	1.11E+02	5.41E-05	6.61E-04	2.29E-05
47	1	Surface	Thorium-230	pCi/g	4.11E+01	2.01E-05		1.30E-08
47	1	Surface	Total PAH	mg/kg	5.41E+01	2.65E-05	3.23E-04	1.26E-06
47	1	Surface	Uranium	mg/kg	3.23E+01	1.58E-05	7.43E-05	1.02E-08
47	1	Surface	Uranium-234	pCi/g	6.85E+00	3.35E-06		2.16E-09
47	1	Surface	Uranium-235	pCi/g	5.00E-01	2.45E-07		1.58E-10
47	1	Surface	Uranium-238	pCi/g	7.93E+00	3.88E-06		2.50E-09
74	1	Surface	PCB, Total	mg/kg	2.97E+00	1.46E-06	1.92E-05	1.58E-06
74	1	Surface	Total PAH	mg/kg	3.16E+00	1.55E-06	1.89E-05	7.38E-08
74	1	Surface	Uranium-234	pCi/g	7.55E+00	3.69E-06		2.38E-09
74	1	Surface	Uranium-238	pCi/g	3.85E+01	1.88E-05		1.22E-08
75	1	Surface	Cadmium	mg/kg	1.10E+00	5.38E-07	5.06E-08	3.47E-10
75	1	Surface	Chromium	mg/kg	7.17E+01	3.51E-05	1.65E-04	2.26E-08
75	1	Surface	Copper	mg/kg	3.15E+02	1.54E-04	7.24E-04	9.94E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
75	1	Surface	Nickel	mg/kg	8.87E+01	4.34E-05	1.63E-04	2.80E-08
75	1	Surface	PCB, Total	mg/kg	2.30E-01	1.13E-07	1.48E-06	1.22E-07
75	1	Surface	Total PAH	mg/kg	2.21E-01	1.08E-07	1.32E-06	5.17E-09
76	1	Surface	Barium	mg/kg	2.69E+02	1.32E-04	6.19E-04	8.49E-08
76	1	Surface	PCB, Total	mg/kg	2.60E-01	1.27E-07	1.67E-06	1.38E-07
76	1	Surface	Total PAH	mg/kg	1.76E+00	8.60E-07	1.05E-05	4.10E-08
76	1	Surface	Uranium-238	pCi/g	1.45E+00	7.09E-07		4.58E-10
78	1	Surface	Cadmium	mg/kg	2.36E+00	1.15E-06	1.09E-07	7.45E-10
78	1	Surface	Chromium	mg/kg	3.75E+01	1.83E-05	8.62E-05	1.18E-08
78	1	Surface	Cobalt-60	pCi/g	5.91E-03	2.89E-09		1.87E-12
78	1	Surface	Naphthalene	mg/kg	1.60E+01	7.83E-06	1.84E-04	1.68E-04
78	1	Surface	Nickel	mg/kg	2.15E+01	1.05E-05	3.95E-05	6.79E-09
78	1	Surface	PCB, Total	mg/kg	1.20E+01	5.87E-06	7.73E-05	6.39E-06
78	1	Surface	Total PAH	mg/kg	3.91E+01	1.91E-05	2.34E-04	9.13E-07
78	1	Surface	Uranium-235	pCi/g	2.64E-01	1.29E-07		8.33E-11
78	1	Surface	Uranium-238	pCi/g	5.29E+00	2.59E-06		1.67E-09
80	1	Surface	Americium-241	pCi/g	6.40E+00	3.13E-06		2.02E-09
80	1	Surface	Antimony	mg/kg	9.10E-01	4.45E-07	2.09E-06	2.87E-10
80	1	Surface	Beryllium	mg/kg	7.80E-01	3.82E-07	2.51E-07	2.46E-10
80	1	Surface	Chromium	mg/kg	1.65E+02	8.07E-05	3.79E-04	5.21E-08
80	1	Surface	Mercury	mg/kg	4.50E-01	2.20E-07	1.03E-06	4.23E-06
80	1	Surface	Neptunium-237	pCi/g	5.05E-01	2.47E-07		1.59E-10
80	1	Surface	PCB, Total	mg/kg	1.46E+01	7.15E-06	9.41E-05	7.78E-06
80	1	Surface	Thorium-230	pCi/g	4.40E+00	2.15E-06		1.39E-09
80	1	Surface	Total PAH	mg/kg	1.42E-01	6.93E-08	8.47E-07	3.31E-09
80	1	Surface	Uranium	mg/kg	5.72E+03	2.80E-03	1.32E-02	1.81E-06
80	1	Surface	Uranium-234	pCi/g	2.29E+02	1.12E-04		7.23E-08
80	1	Surface	Uranium-235	pCi/g	3.00E+01	1.47E-05		9.47E-09
80	1	Surface	Uranium-238	pCi/g	1.92E+03	9.40E-04		6.06E-07
81	1	Surface	Aluminum	mg/kg	9.57E+03	4.68E-03	2.20E-02	3.02E-06
81	1	Surface	Arsenic	mg/kg	1.03E+01	5.01E-06	1.41E-05	3.24E-09
81	1	Surface	Beryllium	mg/kg	7.57E-01	3.70E-07	2.44E-07	2.39E-10
81	1	Surface	Chromium	mg/kg	8.62E+01	4.22E-05	1.98E-04	2.72E-08
81	1	Surface	Mercury	mg/kg	8.33E+00	4.08E-06	1.92E-05	7.84E-05
81	1	Surface	Nickel	mg/kg	7.29E+01	3.57E-05	1.34E-04	2.30E-08
81	1	Surface	PCB, Total	mg/kg	1.60E+02	7.82E-05	1.03E-03	8.50E-05
81	1	Surface	Silver	mg/kg	2.70E+00	1.32E-06	4.97E-06	8.52E-10
81	1	Surface	Total PAH	mg/kg	5.53E-01	2.71E-07	3.31E-06	1.29E-08
81	1	Surface	Uranium	mg/kg	6.50E+03	3.18E-03	1.49E-02	2.05E-06
81	1	Surface	Uranium-238	pCi/g	2.29E+00	1.12E-06		7.21E-10
99	1	Surface	Chromium	mg/kg	5.51E+01	2.70E-05	1.27E-04	1.74E-08
99	1	Surface	Cobalt-60	pCi/g	1.19E-02	5.82E-09		3.76E-12
99	1	Surface	Mercury	mg/kg	9.53E+00	4.66E-06	2.19E-05	8.97E-05
99	1	Surface	Nickel	mg/kg	7.02E+01	3.43E-05	1.29E-04	2.22E-08
99	1	Surface	Silver	mg/kg	1.03E+01	5.04E-06	1.89E-05	3.25E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
99	1	Surface	Uranium-238	pCi/g	9.45E-01	4.62E-07		2.98E-10
138	1	Surface	Antimony	mg/kg	5.39E+00	2.64E-06	1.24E-05	1.70E-09
138	1	Surface	Arsenic	mg/kg	1.06E+01	5.20E-06	1.47E-05	3.35E-09
138	1	Surface	Cadmium	mg/kg	5.42E+00	2.65E-06	2.49E-07	1.71E-09
138	1	Surface	Chromium	mg/kg	5.39E+01	2.63E-05	1.24E-04	1.70E-08
138	1	Surface	Mercury	mg/kg	1.30E+01	6.36E-06	2.99E-05	1.22E-04
138	1	Surface	Nickel	mg/kg	7.04E+01	3.44E-05	1.29E-04	2.22E-08
138	1	Surface	PCB, Total	mg/kg	5.00E-01	2.45E-07	3.22E-06	2.66E-07
138	1	Surface	Silver	mg/kg	1.01E+01	4.94E-06	1.86E-05	3.18E-09
138	1	Surface	Total PAH	mg/kg	9.74E-02	4.77E-08	5.82E-07	2.27E-09
138	2	Surface	Nickel	mg/kg	7.99E+01	3.91E-05	1.47E-04	2.52E-08
138	2	Surface	PCB, Total	mg/kg	9.20E-02	4.50E-08	5.92E-07	4.90E-08
138	2	Surface	Silver	mg/kg	1.04E+01	5.11E-06	1.92E-05	3.30E-09
138	2	Surface	Total PAH	mg/kg	3.84E-02	1.88E-08	2.30E-07	8.96E-10
153	1	Surface	PCB, Total	mg/kg	5.09E-01	2.49E-07	3.28E-06	2.71E-07
153	1	Surface	Total PAH	mg/kg	8.69E-02	4.25E-08	5.20E-07	2.03E-09
154	1	Surface	Arsenic	mg/kg	1.52E+01	7.42E-06	2.09E-05	4.79E-09
154	1	Surface	Chromium	mg/kg	4.28E+01	2.09E-05	9.83E-05	1.35E-08
154	1	Surface	Nickel	mg/kg	9.89E+01	4.84E-05	1.82E-04	3.12E-08
154	1	Surface	PCB, Total	mg/kg	3.20E+00	1.57E-06	2.06E-05	1.70E-06
154	1	Surface	Total PAH	mg/kg	1.04E+00	5.09E-07	6.22E-06	2.43E-08
154	1	Surface	Uranium	mg/kg	3.82E+01	1.87E-05	8.78E-05	1.21E-08
154	1	Surface	Uranium-238	pCi/g	3.06E+00	1.50E-06		9.66E-10
154	2	Surface	PCB, Total	mg/kg	4.00E-01	1.96E-07	2.58E-06	2.13E-07
155	1	Surface	Antimony	mg/kg	3.65E+00	1.79E-06	8.40E-06	1.15E-09
155	1	Surface	Chromium	mg/kg	3.47E+01	1.70E-05	7.98E-05	1.10E-08
155	1	Surface	Neptunium-237	pCi/g	1.03E-01	5.04E-08		3.25E-11
155	1	Surface	Nickel	mg/kg	7.65E+01	3.74E-05	1.41E-04	2.42E-08
155	1	Surface	PCB, Total	mg/kg	9.20E+00	4.50E-06	5.92E-05	4.89E-06
155	1	Surface	Silver	mg/kg	1.11E+01	5.42E-06	2.04E-05	3.50E-09
156	1	Surface	Chromium	mg/kg	4.90E+01	2.40E-05	1.13E-04	1.55E-08
156	1	Surface	Manganese	mg/kg	2.83E+03	1.39E-03	5.21E-03	8.94E-07
156	1	Surface	Mercury	mg/kg	9.87E+00	4.83E-06	2.27E-05	9.29E-05
156	1	Surface	Nickel	mg/kg	6.16E+01	3.01E-05	1.13E-04	1.94E-08
156	1	Surface	PCB, Total	mg/kg	3.00E-01	1.47E-07	1.93E-06	1.60E-07
156	1	Surface	Total PAH	mg/kg	8.26E-02	4.04E-08	4.94E-07	1.93E-09
156	1	Surface	Uranium	mg/kg	2.32E+01	1.13E-05	5.33E-05	7.32E-09
156	1	Surface	Uranium-238	pCi/g	2.19E+00	1.07E-06		6.91E-10
158	1	Surface	Antimony	mg/kg	5.23E-01	2.56E-07	1.20E-06	1.65E-10
158	1	Surface	Arsenic	mg/kg	1.01E+01	4.95E-06	1.40E-05	3.19E-09
158	1	Surface	Barium	mg/kg	2.19E+02	1.07E-04	5.03E-04	6.90E-08
158	1	Surface	Chromium	mg/kg	6.07E+01	2.97E-05	1.40E-04	1.92E-08
158	1	Surface	Cobalt	mg/kg	1.62E+01	7.94E-06	3.73E-05	5.12E-09
158	1	Surface	Manganese	mg/kg	9.91E+02	4.85E-04	1.82E-03	3.13E-07
158	1	Surface	Mercury	mg/kg	1.05E+01	5.12E-06	2.41E-05	9.84E-05

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
158	1	Surface	Nickel	mg/kg	7.28E+01	3.56E-05	1.34E-04	2.30E-08
158	1	Surface	Thallium	mg/kg	3.12E-01	1.53E-07	7.17E-07	9.85E-11
158	1	Surface	Total PAH	mg/kg	3.69E-01	1.81E-07	2.21E-06	8.61E-09
158	1	Surface	Uranium	mg/kg	2.03E+01	9.93E-06	4.67E-05	6.41E-09
158	1	Surface	Uranium-235	pCi/g	1.63E-01	7.97E-08		5.14E-11
158	1	Surface	Uranium-238	pCi/g	3.79E+00	1.85E-06		1.20E-09
160	1	Surface	Antimony	mg/kg	6.80E-01	3.33E-07	1.56E-06	2.15E-10
160	1	Surface	Total PAH	mg/kg	5.29E-02	2.59E-08	3.16E-07	1.23E-09
163	1	Surface	Chromium	mg/kg	4.94E+01	2.42E-05	1.14E-04	1.56E-08
163	1	Surface	Total PAH	mg/kg	1.63E-01	7.97E-08	9.74E-07	3.80E-09
165	1	Surface	Antimony	mg/kg	2.20E+00	1.08E-06	5.06E-06	6.94E-10
165	1	Surface	Arsenic	mg/kg	6.35E+01	3.11E-05	8.76E-05	2.00E-08
165	1	Surface	Barium	mg/kg	5.84E+02	2.86E-04	1.34E-03	1.84E-07
165	1	Surface	Beryllium	mg/kg	6.82E-01	3.34E-07	2.20E-07	2.15E-10
165	1	Surface	Cesium-137	pCi/g	3.47E+00	1.70E-06		1.10E-09
165	1	Surface	Chromium	mg/kg	3.74E+01	1.83E-05	8.60E-05	1.18E-08
165	1	Surface	Mercury	mg/kg	3.78E-01	1.85E-07	8.69E-07	3.56E-06
165	1	Surface	Naphthalene	mg/kg	1.61E+00	7.88E-07	1.85E-05	1.70E-05
165	1	Surface	Neptunium-237	pCi/g	4.26E-01	2.08E-07		1.34E-10
165	1	Surface	Nickel	mg/kg	3.47E+01	1.70E-05	6.38E-05	1.09E-08
165	1	Surface	PCB, Total	mg/kg	8.27E+00	4.05E-06	5.32E-05	4.40E-06
165	1	Surface	Plutonium-239/240	pCi/g	2.81E+00	1.37E-06		8.85E-10
165	1	Surface	Silver	mg/kg	3.09E+01	1.51E-05	5.69E-05	9.76E-09
165	1	Surface	Thorium-230	pCi/g	6.02E+00	2.94E-06		1.90E-09
165	1	Surface	Total PAH	mg/kg	1.87E+00	9.14E-07	1.12E-05	4.36E-08
165	1	Surface	Uranium	mg/kg	1.08E+02	5.26E-05	2.47E-04	3.39E-08
165	1	Surface	Uranium-234	pCi/g	5.76E+01	2.82E-05		1.82E-08
165	1	Surface	Uranium-235	pCi/g	2.05E+00	1.00E-06		6.45E-10
165	1	Surface	Uranium-238	pCi/g	6.41E+01	3.14E-05		2.02E-08
169	1	Surface	Aluminum	mg/kg	1.42E+04	6.95E-03	3.27E-02	4.48E-06
169	1	Surface	Antimony	mg/kg	1.30E+00	6.36E-07	2.99E-06	4.10E-10
169	1	Surface	Arsenic	mg/kg	2.03E+01	9.93E-06	2.80E-05	6.41E-09
169	1	Surface	Beryllium	mg/kg	8.00E-01	3.91E-07	2.58E-07	2.53E-10
169	1	Surface	Chromium	mg/kg	2.15E+02	1.05E-04	4.94E-04	6.78E-08
169	1	Surface	Copper	mg/kg	3.74E+02	1.83E-04	8.61E-04	1.18E-07
169	1	Surface	Iron	mg/kg	4.16E+04	2.03E-02	9.56E-02	1.31E-05
169	1	Surface	Mercury	mg/kg	7.87E+00	3.85E-06	1.81E-05	7.40E-05
169	1	Surface	Nickel	mg/kg	5.49E+02	2.68E-04	1.01E-03	1.73E-07
169	1	Surface	PCB, Total	mg/kg	1.00E+01	4.89E-06	6.44E-05	5.32E-06
169	1	Surface	Thallium	mg/kg	4.60E-01	2.25E-07	1.06E-06	1.45E-10
169	1	Surface	Total PAH	mg/kg	4.59E+00	2.24E-06	2.74E-05	1.07E-07
169	1	Surface	Uranium	mg/kg	5.03E+01	2.46E-05	1.16E-04	1.59E-08
169	1	Surface	Uranium-234	pCi/g	6.55E+00	3.20E-06		2.07E-09
169	1	Surface	Uranium-235	pCi/g	4.60E-01	2.25E-07		1.45E-10
169	1	Surface	Uranium-238	pCi/g	8.12E+00	3.97E-06		2.56E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
170	1	Surface	Neptunium-237	pCi/g	1.15E-01	5.63E-08		3.63E-11
170	1	Surface	Uranium-238	pCi/g	1.53E+00	7.49E-07		4.83E-10
176	1	Surface	Arsenic	mg/kg	4.86E+01	2.38E-05	6.70E-05	1.53E-08
176	1	Surface	Chromium	mg/kg	4.27E+01	2.09E-05	9.83E-05	1.35E-08
176	1	Surface	Nickel	mg/kg	1.07E+02	5.24E-05	1.97E-04	3.38E-08
176	1	Surface	Uranium	mg/kg	2.21E+01	1.08E-05	5.08E-05	6.97E-09
180	1	Surface	Antimony	mg/kg	5.80E-01	2.84E-07	1.33E-06	1.83E-10
180	1	Surface	Arsenic	mg/kg	7.48E+01	3.66E-05	1.03E-04	2.36E-08
180	1	Surface	Chromium	mg/kg	5.54E+01	2.71E-05	1.27E-04	1.75E-08
180	1	Surface	Mercury	mg/kg	8.28E+00	4.05E-06	1.90E-05	7.79E-05
180	1	Surface	Nickel	mg/kg	8.77E+01	4.29E-05	1.61E-04	2.77E-08
180	2	Surface	Antimony	mg/kg	4.58E-01	2.24E-07	1.05E-06	1.45E-10
180	2	Surface	Arsenic	mg/kg	1.27E+01	6.19E-06	1.75E-05	3.99E-09
180	2	Surface	Chromium	mg/kg	4.46E+01	2.18E-05	1.03E-04	1.41E-08
180	2	Surface	Nickel	mg/kg	8.42E+01	4.12E-05	1.55E-04	2.66E-08
180	2	Surface	Total PAH	mg/kg	9.19E-02	4.49E-08	5.49E-07	2.14E-09
180	3	Surface	Arsenic	mg/kg	1.34E+01	6.53E-06	1.84E-05	4.21E-09
180	3	Surface	Chromium	mg/kg	4.69E+01	2.30E-05	1.08E-04	1.48E-08
180	3	Surface	Nickel	mg/kg	6.77E+01	3.31E-05	1.25E-04	2.14E-08
180	3	Surface	Silver	mg/kg	1.14E+01	5.58E-06	2.10E-05	3.60E-09
180	4	Surface	Arsenic	mg/kg	1.15E+01	5.64E-06	1.59E-05	3.64E-09
180	4	Surface	Barium	mg/kg	2.13E+02	1.04E-04	4.90E-04	6.72E-08
180	4	Surface	Beryllium	mg/kg	1.60E+00	7.83E-07	5.15E-07	5.05E-10
180	4	Surface	Chromium	mg/kg	6.00E+01	2.94E-05	1.38E-04	1.89E-08
180	4	Surface	Iron	mg/kg	1.54E+04	7.52E-03	3.53E-02	4.85E-06
180	4	Surface	Manganese	mg/kg	7.09E+02	3.47E-04	1.30E-03	2.24E-07
180	4	Surface	Nickel	mg/kg	6.46E+01	3.16E-05	1.19E-04	2.04E-08
180	4	Surface	Silver	mg/kg	9.68E+00	4.74E-06	1.78E-05	3.06E-09
180	4	Surface	Total PAH	mg/kg	2.15E-02	1.05E-08	1.29E-07	5.02E-10
180	4	Surface	Vanadium	mg/kg	4.85E+01	2.37E-05	5.80E-05	1.53E-08
181	1	Surface	Chromium	mg/kg	2.29E+01	1.12E-05	5.25E-05	7.21E-09
181	1	Surface	Thallium	mg/kg	3.50E+00	1.71E-06	8.05E-06	1.10E-09
181	1	Surface	Total PAH	mg/kg	3.43E-02	1.68E-08	2.05E-07	8.01E-10
194	1	Surface	Antimony	mg/kg	1.50E+00	7.34E-07	3.45E-06	4.73E-10
194	1	Surface	Chromium	mg/kg	3.87E+01	1.89E-05	8.90E-05	1.22E-08
194	1	Surface	Mercury	mg/kg	6.71E+00	3.28E-06	1.54E-05	6.31E-05
194	1	Surface	Nickel	mg/kg	5.84E+01	2.86E-05	1.07E-04	1.84E-08
194	1	Surface	Silver	mg/kg	1.09E+01	5.35E-06	2.01E-05	3.45E-09
194	2	Surface	Chromium	mg/kg	5.96E+01	2.92E-05	1.37E-04	1.88E-08
194	2	Surface	Silver	mg/kg	1.31E+01	6.42E-06	2.42E-05	4.14E-09
194	2	Surface	Uranium	mg/kg	2.28E+01	1.11E-05	5.24E-05	7.19E-09
194	2	Surface	Uranium-238	pCi/g	1.42E+00	6.95E-07		4.48E-10
194	3	Surface	Antimony	mg/kg	6.90E-01	3.38E-07	1.59E-06	2.18E-10
194	3	Surface	Arsenic	mg/kg	1.46E+01	7.16E-06	2.02E-05	4.62E-09
194	3	Surface	Chromium	mg/kg	3.90E+01	1.91E-05	8.96E-05	1.23E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	3	Surface	Nickel	mg/kg	6.40E+01	3.13E-05	1.18E-04	2.02E-08
194	3	Surface	Total PAH	mg/kg	3.93E-02	1.92E-08	2.35E-07	9.17E-10
194	3	Surface	Uranium-238	pCi/g	1.28E+00	6.28E-07		4.05E-10
194	4	Surface	Chromium	mg/kg	4.84E+01	2.37E-05	1.11E-04	1.53E-08
194	4	Surface	Mercury	mg/kg	8.92E+00	4.36E-06	2.05E-05	8.39E-05
194	4	Surface	Nickel	mg/kg	6.91E+01	3.38E-05	1.27E-04	2.18E-08
194	4	Surface	Silver	mg/kg	1.18E+01	5.76E-06	2.17E-05	3.72E-09
194	4	Surface	Total PAH	mg/kg	7.30E-02	3.57E-08	4.36E-07	1.70E-09
194	4	Surface	Uranium-238	pCi/g	1.73E+00	8.46E-07		5.46E-10
194	5	Surface	Chromium	mg/kg	4.58E+01	2.24E-05	1.05E-04	1.45E-08
194	5	Surface	Mercury	mg/kg	8.69E+00	4.25E-06	2.00E-05	8.18E-05
194	5	Surface	Nickel	mg/kg	7.54E+01	3.69E-05	1.39E-04	2.38E-08
194	5	Surface	Silver	mg/kg	1.25E+01	6.09E-06	2.29E-05	3.93E-09
194	5	Surface	Total PAH	mg/kg	2.37E-02	1.16E-08	1.42E-07	5.53E-10
194	5	Surface	Uranium-238	pCi/g	1.38E+00	6.75E-07		4.36E-10
194	6	Surface	Chromium	mg/kg	3.70E+01	1.81E-05	8.51E-05	1.17E-08
194	6	Surface	Manganese	mg/kg	1.08E+03	5.28E-04	1.99E-03	3.41E-07
194	6	Surface	Nickel	mg/kg	8.06E+01	3.94E-05	1.48E-04	2.54E-08
194	6	Surface	Silver	mg/kg	9.89E+00	4.84E-06	1.82E-05	3.12E-09
194	6	Surface	Uranium-238	pCi/g	1.32E+00	6.46E-07		4.17E-10
194	7	Surface	Chromium	mg/kg	5.32E+01	2.60E-05	1.22E-04	1.68E-08
194	7	Surface	Nickel	mg/kg	7.71E+01	3.77E-05	1.42E-04	2.43E-08
194	7	Surface	Silver	mg/kg	1.25E+01	6.12E-06	2.30E-05	3.95E-09
194	8	Surface	Chromium	mg/kg	5.36E+01	2.62E-05	1.23E-04	1.69E-08
194	8	Surface	Manganese	mg/kg	8.00E+02	3.91E-04	1.47E-03	2.52E-07
194	8	Surface	Total PAH	mg/kg	4.85E-01	2.37E-07	2.90E-06	1.13E-08
194	8	Surface	Uranium-238	pCi/g	1.39E+00	6.80E-07		4.39E-10
194	9	Surface	Arsenic	mg/kg	1.14E+01	5.59E-06	1.58E-05	3.60E-09
194	9	Surface	Chromium	mg/kg	5.17E+01	2.53E-05	1.19E-04	1.63E-08
194	10	Surface	Arsenic	mg/kg	1.22E+01	5.95E-06	1.68E-05	3.84E-09
194	10	Surface	Cesium-137	pCi/g	5.81E-01	2.84E-07		1.83E-10
194	10	Surface	Chromium	mg/kg	3.63E+01	1.78E-05	8.34E-05	1.15E-08
194	10	Surface	Nickel	mg/kg	7.60E+01	3.72E-05	1.40E-04	2.40E-08
194	10	Surface	Total PAH	mg/kg	2.57E-01	1.26E-07	1.54E-06	6.00E-09
194	10	Surface	Uranium-238	pCi/g	1.49E+00	7.29E-07		4.70E-10
194	11	Surface	Chromium	mg/kg	3.27E+01	1.60E-05	7.51E-05	1.03E-08
194	11	Surface	Mercury	mg/kg	8.09E+00	3.96E-06	1.86E-05	7.61E-05
194	11	Surface	Nickel	mg/kg	1.01E+02	4.93E-05	1.85E-04	3.18E-08
194	11	Surface	PCB, Total	mg/kg	8.40E-02	4.11E-08	5.41E-07	4.47E-08
194	11	Surface	Silver	mg/kg	1.33E+01	6.50E-06	2.44E-05	4.19E-09
194	11	Surface	Total PAH	mg/kg	7.95E-02	3.89E-08	4.75E-07	1.86E-09
194	12	Surface	Chromium	mg/kg	6.34E+01	3.10E-05	1.46E-04	2.00E-08
194	12	Surface	Nickel	mg/kg	7.86E+01	3.85E-05	1.45E-04	2.48E-08
194	12	Surface	Silver	mg/kg	1.20E+01	5.86E-06	2.20E-05	3.78E-09
194	12	Surface	Total PAH	mg/kg	8.91E-01	4.36E-07	5.33E-06	2.08E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	13	Surface	Chromium	mg/kg	4.77E+01	2.33E-05	1.10E-04	1.50E-08
194	13	Surface	Nickel	mg/kg	6.03E+01	2.95E-05	1.11E-04	1.90E-08
194	13	Surface	Total PAH	mg/kg	9.13E-02	4.47E-08	5.46E-07	2.13E-09
194	14	Surface	Chromium	mg/kg	5.21E+01	2.55E-05	1.20E-04	1.65E-08
194	14	Surface	Mercury	mg/kg	8.14E+00	3.98E-06	1.87E-05	7.66E-05
194	15	Surface	Chromium	mg/kg	5.33E+01	2.61E-05	1.23E-04	1.68E-08
194	15	Surface	Silver	mg/kg	1.03E+01	5.04E-06	1.90E-05	3.25E-09
194	16	Surface	Antimony	mg/kg	7.40E-01	3.62E-07	1.70E-06	2.34E-10
194	16	Surface	Arsenic	mg/kg	1.15E+01	5.64E-06	1.59E-05	3.64E-09
194	16	Surface	Beryllium	mg/kg	8.70E-01	4.26E-07	2.80E-07	2.75E-10
194	16	Surface	Chromium	mg/kg	5.32E+01	2.60E-05	1.22E-04	1.68E-08
194	16	Surface	Nickel	mg/kg	7.20E+01	3.52E-05	1.33E-04	2.27E-08
194	16	Surface	Thallium	mg/kg	6.30E-01	3.08E-07	1.45E-06	1.99E-10
194	16	Surface	Vanadium	mg/kg	4.11E+01	2.01E-05	4.91E-05	1.30E-08
194	17	Surface	Arsenic	mg/kg	1.16E+01	5.65E-06	1.59E-05	3.65E-09
194	17	Surface	Cadmium	mg/kg	1.10E+00	5.38E-07	5.06E-08	3.47E-10
194	17	Surface	Chromium	mg/kg	4.65E+01	2.27E-05	1.07E-04	1.47E-08
194	17	Surface	Total PAH	mg/kg	1.59E-01	7.76E-08	9.49E-07	3.70E-09
194	18	Surface	Arsenic	mg/kg	1.06E+01	5.17E-06	1.46E-05	3.34E-09
194	18	Surface	Beryllium	mg/kg	7.40E-01	3.62E-07	2.38E-07	2.34E-10
194	18	Surface	Chromium	mg/kg	6.85E+01	3.35E-05	1.57E-04	2.16E-08
194	18	Surface	Nickel	mg/kg	5.78E+01	2.83E-05	1.06E-04	1.82E-08
194	19	Surface	Arsenic	mg/kg	1.07E+01	5.23E-06	1.47E-05	3.37E-09
194	19	Surface	Chromium	mg/kg	4.84E+01	2.37E-05	1.11E-04	1.53E-08
194	19	Surface	Nickel	mg/kg	5.84E+01	2.86E-05	1.07E-04	1.84E-08
194	20	Surface	Arsenic	mg/kg	1.18E+01	5.79E-06	1.63E-05	3.74E-09
194	20	Surface	Barium	mg/kg	3.26E+02	1.59E-04	7.50E-04	1.03E-07
194	20	Surface	Beryllium	mg/kg	1.10E+00	5.38E-07	3.54E-07	3.47E-10
194	20	Surface	Chromium	mg/kg	5.24E+01	2.56E-05	1.20E-04	1.65E-08
194	20	Surface	Cobalt	mg/kg	2.11E+01	1.03E-05	4.85E-05	6.66E-09
194	20	Surface	Manganese	mg/kg	2.29E+03	1.12E-03	4.22E-03	7.24E-07
194	20	Surface	Mercury	mg/kg	7.28E+00	3.56E-06	1.67E-05	6.85E-05
194	20	Surface	Nickel	mg/kg	6.57E+01	3.21E-05	1.21E-04	2.07E-08
194	20	Surface	Silver	mg/kg	1.22E+01	5.98E-06	2.25E-05	3.86E-09
194	20	Surface	Total PAH	mg/kg	3.10E-02	1.52E-08	1.85E-07	7.23E-10
194	20	Surface	Vanadium	mg/kg	3.81E+01	1.86E-05	4.56E-05	1.20E-08
194	21	Surface	Antimony	mg/kg	9.30E-01	4.55E-07	2.14E-06	2.94E-10
194	21	Surface	Chromium	mg/kg	5.51E+01	2.70E-05	1.27E-04	1.74E-08
194	21	Surface	Mercury	mg/kg	6.62E+00	3.24E-06	1.52E-05	6.23E-05
194	21	Surface	Nickel	mg/kg	7.01E+01	3.43E-05	1.29E-04	2.21E-08
194	21	Surface	Thallium	mg/kg	6.40E-01	3.13E-07	1.47E-06	2.02E-10
194	22	Surface	Chromium	mg/kg	4.90E+01	2.40E-05	1.13E-04	1.55E-08
194	22	Surface	Manganese	mg/kg	8.19E+02	4.01E-04	1.51E-03	2.59E-07
194	22	Surface	PCB, Total	mg/kg	1.09E+01	5.34E-06	7.03E-05	5.81E-06
194	23	Surface	Arsenic	mg/kg	1.16E+01	5.65E-06	1.59E-05	3.65E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	23	Surface	Chromium	mg/kg	6.60E+01	3.23E-05	1.52E-04	2.08E-08
194	23	Surface	Iron	mg/kg	1.83E+04	8.94E-03	4.20E-02	5.77E-06
194	23	Surface	Nickel	mg/kg	8.77E+01	4.29E-05	1.61E-04	2.77E-08
194	23	Surface	Silver	mg/kg	1.15E+01	5.62E-06	2.11E-05	3.62E-09
194	24	Surface	Chromium	mg/kg	5.02E+01	2.46E-05	1.15E-04	1.58E-08
194	24	Surface	Nickel	mg/kg	7.08E+01	3.46E-05	1.30E-04	2.23E-08
194	24	Surface	Total PAH	mg/kg	2.28E-02	1.12E-08	1.36E-07	5.32E-10
194	25	Surface	Barium	mg/kg	3.00E+02	1.47E-04	6.90E-04	9.47E-08
194	25	Surface	Chromium	mg/kg	6.13E+01	3.00E-05	1.41E-04	1.93E-08
194	25	Surface	Manganese	mg/kg	9.96E+02	4.87E-04	1.83E-03	3.14E-07
194	25	Surface	Nickel	mg/kg	6.33E+01	3.10E-05	1.16E-04	2.00E-08
194	25	Surface	Total PAH	mg/kg	2.06E-02	1.01E-08	1.23E-07	4.81E-10
194	26	Surface	Beryllium	mg/kg	7.00E-01	3.42E-07	2.25E-07	2.21E-10
194	26	Surface	Chromium	mg/kg	4.18E+01	2.05E-05	9.62E-05	1.32E-08
194	26	Surface	Silver	mg/kg	1.03E+01	5.02E-06	1.89E-05	3.24E-09
194	26	Surface	Thallium	mg/kg	3.90E-01	1.91E-07	8.97E-07	1.23E-10
194	27	Surface	Chromium	mg/kg	5.22E+01	2.55E-05	1.20E-04	1.65E-08
194	27	Surface	Nickel	mg/kg	6.55E+01	3.20E-05	1.20E-04	2.07E-08
194	27	Surface	Silver	mg/kg	1.01E+01	4.95E-06	1.86E-05	3.19E-09
194	28	Surface	Arsenic	mg/kg	1.20E+01	5.89E-06	1.66E-05	3.80E-09
194	28	Surface	Beryllium	mg/kg	7.10E-01	3.47E-07	2.29E-07	2.24E-10
194	28	Surface	Chromium	mg/kg	6.07E+01	2.97E-05	1.40E-04	1.92E-08
194	28	Surface	Manganese	mg/kg	1.14E+03	5.57E-04	2.09E-03	3.59E-07
194	28	Surface	Nickel	mg/kg	6.95E+01	3.40E-05	1.28E-04	2.19E-08
194	28	Surface	Silver	mg/kg	1.08E+01	5.28E-06	1.98E-05	3.41E-09
194	28	Surface	Vanadium	mg/kg	4.06E+01	1.99E-05	4.85E-05	1.28E-08
194	29	Surface	Antimony	mg/kg	7.10E-01	3.47E-07	1.63E-06	2.24E-10
194	29	Surface	Chromium	mg/kg	5.06E+01	2.47E-05	1.16E-04	1.60E-08
194	29	Surface	Nickel	mg/kg	6.51E+01	3.18E-05	1.20E-04	2.05E-08
194	29	Surface	Silver	mg/kg	9.77E+00	4.78E-06	1.80E-05	3.08E-09
194	30	Surface	Chromium	mg/kg	5.66E+01	2.77E-05	1.30E-04	1.79E-08
194	30	Surface	Mercury	mg/kg	8.80E+00	4.31E-06	2.02E-05	8.28E-05
194	30	Surface	Nickel	mg/kg	6.99E+01	3.42E-05	1.29E-04	2.21E-08
194	30	Surface	Silver	mg/kg	9.76E+00	4.77E-06	1.80E-05	3.08E-09
194	31	Surface	Cesium-137	pCi/g	5.70E-01	2.79E-07		1.80E-10
194	31	Surface	Uranium-238	pCi/g	1.72E+00	8.41E-07		5.43E-10
195	1	Surface	Chromium	mg/kg	6.33E+01	3.10E-05	1.45E-04	2.00E-08
195	1	Surface	Nickel	mg/kg	7.02E+01	3.43E-05	1.29E-04	2.22E-08
195	1	Surface	Silver	mg/kg	9.37E+00	4.58E-06	1.72E-05	2.96E-09
195	2	Surface	Chromium	mg/kg	4.52E+01	2.21E-05	1.04E-04	1.43E-08
195	2	Surface	Silver	mg/kg	9.48E+00	4.64E-06	1.74E-05	2.99E-09
195	2	Surface	Total PAH	mg/kg	2.68E-02	1.31E-08	1.60E-07	6.25E-10
195	3	Surface	Chromium	mg/kg	5.03E+01	2.46E-05	1.16E-04	1.59E-08
195	3	Surface	Nickel	mg/kg	5.22E+01	2.55E-05	9.59E-05	1.65E-08
195	3	Surface	Total PAH	mg/kg	4.06E-02	1.99E-08	2.43E-07	9.48E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
195	4	Surface	Chromium	mg/kg	5.29E+01	2.59E-05	1.22E-04	1.67E-08
195	4	Surface	Nickel	mg/kg	6.23E+01	3.05E-05	1.15E-04	1.97E-08
195	5	Surface	Chromium	mg/kg	5.74E+01	2.81E-05	1.32E-04	1.81E-08
195	5	Surface	Nickel	mg/kg	8.11E+01	3.97E-05	1.49E-04	2.56E-08
195	5	Surface	Total PAH	mg/kg	2.40E-02	1.17E-08	1.43E-07	5.60E-10
195	6	Surface	Chromium	mg/kg	4.45E+01	2.18E-05	1.02E-04	1.41E-08
195	6	Surface	Nickel	mg/kg	8.71E+01	4.26E-05	1.60E-04	2.75E-08
195	6	Surface	Total PAH	mg/kg	2.48E-01	1.21E-07	1.48E-06	5.78E-09
195	7	Surface	Chromium	mg/kg	4.93E+01	2.41E-05	1.13E-04	1.55E-08
195	7	Surface	Silver	mg/kg	8.06E+00	3.94E-06	1.48E-05	2.54E-09
195	8	Surface	Arsenic	mg/kg	1.16E+01	5.66E-06	1.59E-05	3.65E-09
195	8	Surface	Beryllium	mg/kg	7.40E-01	3.62E-07	2.38E-07	2.34E-10
195	8	Surface	Chromium	mg/kg	6.79E+01	3.32E-05	1.56E-04	2.14E-08
195	8	Surface	Cobalt	mg/kg	1.82E+01	8.90E-06	4.18E-05	5.74E-09
195	8	Surface	Nickel	mg/kg	7.01E+01	3.43E-05	1.29E-04	2.21E-08
195	8	Surface	Total PAH	mg/kg	2.16E-01	1.05E-07	1.29E-06	5.03E-09
195	8	Surface	Vanadium	mg/kg	4.04E+01	1.98E-05	4.83E-05	1.28E-08
195	9	Surface	Chromium	mg/kg	6.08E+01	2.97E-05	1.40E-04	1.92E-08
195	9	Surface	Nickel	mg/kg	7.93E+01	3.88E-05	1.46E-04	2.50E-08
195	10	Surface	Chromium	mg/kg	4.51E+01	2.20E-05	1.04E-04	1.42E-08
195	10	Surface	Nickel	mg/kg	7.40E+01	3.62E-05	1.36E-04	2.34E-08
195	10	Surface	Silver	mg/kg	1.31E+01	6.41E-06	2.41E-05	4.14E-09
195	11	Surface	Aluminum	mg/kg	2.81E+04	1.37E-02	6.46E-02	8.87E-06
195	11	Surface	Arsenic	mg/kg	1.35E+01	6.59E-06	1.86E-05	4.25E-09
195	11	Surface	Barium	mg/kg	4.53E+02	2.22E-04	1.04E-03	1.43E-07
195	11	Surface	Chromium	mg/kg	5.05E+01	2.47E-05	1.16E-04	1.59E-08
195	11	Surface	Cobalt	mg/kg	2.77E+01	1.36E-05	6.37E-05	8.74E-09
195	11	Surface	Iron	mg/kg	1.97E+04	9.64E-03	4.53E-02	6.22E-06
195	11	Surface	Nickel	mg/kg	6.77E+01	3.31E-05	1.25E-04	2.14E-08
195	11	Surface	Thallium	mg/kg	6.60E-01	3.23E-07	1.52E-06	2.08E-10
195	11	Surface	Vanadium	mg/kg	7.97E+01	3.90E-05	9.53E-05	2.52E-08
195	12	Surface	Beryllium	mg/kg	7.50E-01	3.67E-07	2.41E-07	2.37E-10
195	12	Surface	Chromium	mg/kg	7.04E+01	3.44E-05	1.62E-04	2.22E-08
195	12	Surface	Nickel	mg/kg	6.78E+01	3.31E-05	1.25E-04	2.14E-08
195	13	Surface	Chromium	mg/kg	6.55E+01	3.20E-05	1.51E-04	2.07E-08
195	13	Surface	Nickel	mg/kg	6.91E+01	3.38E-05	1.27E-04	2.18E-08
195	14	Surface	Chromium	mg/kg	5.94E+01	2.91E-05	1.37E-04	1.88E-08
195	14	Surface	Nickel	mg/kg	7.04E+01	3.44E-05	1.29E-04	2.22E-08
195	15	Surface	Chromium	mg/kg	4.82E+01	2.36E-05	1.11E-04	1.52E-08
195	16	Surface	Chromium	mg/kg	4.45E+01	2.18E-05	1.02E-04	1.40E-08
195	16	Surface	Nickel	mg/kg	8.16E+01	3.99E-05	1.50E-04	2.57E-08
195	17	Surface	Chromium	mg/kg	8.22E+01	4.02E-05	1.89E-04	2.59E-08
195	17	Surface	Mercury	mg/kg	4.17E-01	2.04E-07	9.59E-07	3.92E-06
195	17	Surface	Nickel	mg/kg	5.93E+01	2.90E-05	1.09E-04	1.87E-08
195	17	Surface	PCB, Total	mg/kg	7.40E-01	3.62E-07	4.76E-06	3.94E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
195	17	Surface	Silver	mg/kg	1.01E+01	4.96E-06	1.87E-05	3.20E-09
195	17	Surface	Thallium	mg/kg	5.40E-01	2.64E-07	1.24E-06	1.70E-10
195	17	Surface	Total PAH	mg/kg	3.16E-01	1.55E-07	1.89E-06	7.37E-09
195	17	Surface	Uranium-235	pCi/g	1.32E-01	6.46E-08		4.17E-11
195	17	Surface	Uranium-238	pCi/g	2.48E+00	1.21E-06		7.83E-10
196	1	Surface	Antimony	mg/kg	5.90E-01	2.89E-07	1.36E-06	1.86E-10
196	1	Surface	Chromium	mg/kg	1.96E+01	9.59E-06	4.51E-05	6.19E-09
196	1	Surface	Neptunium-237	pCi/g	3.11E-01	1.52E-07		9.82E-11
196	1	Surface	Nickel	mg/kg	5.56E+02	2.72E-04	1.02E-03	1.75E-07
196	1	Surface	Uranium	mg/kg	2.33E+01	1.14E-05	5.36E-05	7.35E-09
196	1	Surface	Uranium-238	pCi/g	1.54E+00	7.53E-07		4.86E-10
196	2	Surface	Barium	mg/kg	2.02E+02	9.88E-05	4.64E-04	6.38E-08
196	2	Surface	Cadmium	mg/kg	2.53E+00	1.24E-06	1.16E-07	7.99E-10
196	2	Surface	Chromium	mg/kg	2.07E+01	1.01E-05	4.76E-05	6.53E-09
196	2	Surface	Nickel	mg/kg	7.36E+01	3.60E-05	1.35E-04	2.32E-08
196	2	Surface	PCB, Total	mg/kg	1.51E+00	7.39E-07	9.72E-06	8.03E-07
196	2	Surface	Total PAH	mg/kg	6.80E-01	3.33E-07	4.07E-06	1.59E-08
196	2	Surface	Uranium-238	pCi/g	2.21E+00	1.08E-06		6.98E-10
200	1	Surface	Antimony	mg/kg	5.60E-01	2.74E-07	1.29E-06	1.77E-10
200	1	Surface	Cesium-137	pCi/g	5.74E-01	2.81E-07		1.81E-10
200	1	Surface	Chromium	mg/kg	5.75E+01	2.81E-05	1.32E-04	1.82E-08
200	1	Surface	Mercury	mg/kg	6.71E+00	3.28E-06	1.54E-05	6.31E-05
200	1	Surface	Nickel	mg/kg	1.28E+02	6.26E-05	2.35E-04	4.04E-08
200	1	Surface	PCB, Total	mg/kg	2.60E+00	1.27E-06	1.67E-05	1.38E-06
200	1	Surface	Total PAH	mg/kg	2.84E-02	1.39E-08	1.70E-07	6.63E-10
200	1	Surface	Uranium	mg/kg	2.73E+01	1.34E-05	6.28E-05	8.62E-09
200	1	Surface	Uranium-235	pCi/g	1.43E-01	7.00E-08		4.51E-11
200	1	Surface	Uranium-238	pCi/g	3.58E+00	1.75E-06		1.13E-09
204	1	Surface	Aluminum	mg/kg	1.48E+04	7.24E-03	3.40E-02	4.67E-06
204	1	Surface	Beryllium	mg/kg	1.36E+00	6.65E-07	4.38E-07	4.29E-10
204	1	Surface	Cadmium	mg/kg	2.73E+00	1.34E-06	1.26E-07	8.62E-10
204	1	Surface	Chromium	mg/kg	7.40E+01	3.62E-05	1.70E-04	2.34E-08
204	1	Surface	Iron	mg/kg	4.19E+04	2.05E-02	9.63E-02	1.32E-05
204	1	Surface	PCB, Total	mg/kg	2.53E+00	1.24E-06	1.63E-05	1.35E-06
204	1	Surface	Uranium-235	pCi/g	1.80E-01	8.81E-08		5.68E-11
204	1	Surface	Uranium-238	pCi/g	5.20E+00	2.54E-06		1.64E-09
204	1	Surface	Vanadium	mg/kg	7.55E+01	3.69E-05	9.03E-05	2.38E-08
204	2	Surface	Aluminum	mg/kg	1.37E+04	6.70E-03	3.15E-02	4.32E-06
204	2	Surface	Chromium	mg/kg	1.80E+01	8.81E-06	4.14E-05	5.68E-09
204	2	Surface	PCB, Total	mg/kg	1.70E-01	8.32E-08	1.09E-06	9.05E-08
204	3	Surface	Chromium	mg/kg	2.06E+01	1.01E-05	4.74E-05	6.50E-09
204	3	Surface	Uranium-238	pCi/g	2.50E+00	1.22E-06		7.89E-10
204	4	Surface	Antimony	mg/kg	1.10E+00	5.38E-07	2.53E-06	3.47E-10
204	4	Surface	Chromium	mg/kg	2.89E+01	1.41E-05	6.65E-05	9.12E-09
204	4	Surface	Uranium-235	pCi/g	1.88E-01	9.19E-08		5.93E-11

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
204	4	Surface	Uranium-238	pCi/g	9.72E+00	4.76E-06		3.07E-09
204	18	Surface	Cesium-137	pCi/g	6.30E-01	3.08E-07		1.99E-10
204	18	Surface	Uranium	mg/kg	1.60E+01	7.83E-06	3.68E-05	5.05E-09
204	18	Surface	Uranium-235	pCi/g	1.25E-01	6.12E-08		3.95E-11
204	18	Surface	Uranium-238	pCi/g	5.37E+00	2.63E-06		1.69E-09
204	23	Surface	Americium-241	pCi/g	3.71E+00	1.81E-06		1.17E-09
204	23	Surface	Beryllium	mg/kg	1.33E+00	6.51E-07	4.28E-07	4.20E-10
204	23	Surface	Cesium-137	pCi/g	1.17E+00	5.73E-07		3.70E-10
204	23	Surface	Chromium	mg/kg	1.75E+02	8.56E-05	4.02E-04	5.52E-08
204	23	Surface	Cobalt-60	pCi/g	1.23E-02	5.99E-09		3.87E-12
204	23	Surface	PCB, Total	mg/kg	7.90E+01	3.86E-05	5.09E-04	4.20E-05
204	23	Surface	Uranium	mg/kg	1.31E+04	6.39E-03	3.01E-02	4.13E-06
204	23	Surface	Uranium-234	pCi/g	4.45E+02	2.18E-04		1.40E-07
204	23	Surface	Uranium-235	pCi/g	5.70E+01	2.79E-05		1.80E-08
204	23	Surface	Uranium-238	pCi/g	4.39E+03	2.15E-03		1.38E-06
211	1	Surface	Chromium	mg/kg	4.48E+01	2.19E-05	1.03E-04	1.41E-08
211	1	Surface	Neptunium-237	pCi/g	1.46E-01	7.14E-08		4.61E-11
211	1	Surface	PCB, Total	mg/kg	3.60E-01	1.76E-07	2.32E-06	1.92E-07
211	1	Surface	Total PAH	mg/kg	1.04E-01	5.08E-08	6.21E-07	2.42E-09
211	1	Surface	Uranium	mg/kg	2.19E+01	1.07E-05	5.03E-05	6.90E-09
211	1	Surface	Uranium-235	pCi/g	2.12E-01	1.04E-07		6.69E-11
211	1	Surface	Uranium-238	pCi/g	5.84E+00	2.86E-06		1.84E-09
212	1	Surface	Arsenic	mg/kg	1.44E+01	7.05E-06	1.99E-05	4.55E-09
212	1	Surface	Beryllium	mg/kg	8.10E-01	3.96E-07	2.61E-07	2.56E-10
212	1	Surface	Cesium-137	pCi/g	6.01E-01	2.94E-07		1.90E-10
212	1	Surface	Chromium	mg/kg	3.58E+01	1.75E-05	8.23E-05	1.13E-08
212	1	Surface	Cobalt-60	pCi/g	8.76E-03	4.29E-09		2.76E-12
212	1	Surface	Iron	mg/kg	4.14E+04	2.03E-02	9.52E-02	1.31E-05
212	1	Surface	Neptunium-237	pCi/g	4.00E+00	1.96E-06		1.26E-09
212	1	Surface	Nickel	mg/kg	8.69E+01	4.25E-05	1.60E-04	2.74E-08
212	1	Surface	PCB, Total	mg/kg	1.80E-01	8.81E-08	1.16E-06	9.58E-08
212	1	Surface	Plutonium-239/240	pCi/g	6.71E+00	3.28E-06		2.12E-09
212	1	Surface	Thorium-230	pCi/g	2.60E+02	1.27E-04		8.21E-08
212	1	Surface	Uranium	mg/kg	2.30E+01	1.13E-05	5.29E-05	7.26E-09
212	1	Surface	Uranium-235	pCi/g	2.09E-01	1.02E-07		6.60E-11
212	1	Surface	Uranium-238	pCi/g	3.17E+00	1.55E-06		1.00E-09
213	1	Surface	Antimony	mg/kg	8.50E-01	4.16E-07	1.95E-06	2.68E-10
213	1	Surface	Chromium	mg/kg	4.78E+01	2.34E-05	1.10E-04	1.51E-08
213	1	Surface	Nickel	mg/kg	6.67E+01	3.26E-05	1.23E-04	2.11E-08
213	1	Surface	PCB, Total	mg/kg	7.30E-02	3.57E-08	4.70E-07	3.88E-08
213	1	Surface	Silver	mg/kg	1.32E+01	6.44E-06	2.42E-05	4.16E-09
213	1	Surface	Total PAH	mg/kg	1.72E-01	8.41E-08	1.03E-06	4.01E-09
213	1	Surface	Uranium-238	pCi/g	2.33E+00	1.14E-06		7.35E-10
213	2	Surface	Chromium	mg/kg	4.48E+01	2.19E-05	1.03E-04	1.41E-08
213	2	Surface	Nickel	mg/kg	9.10E+01	4.45E-05	1.67E-04	2.87E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
213	2	Surface	Silver	mg/kg	1.13E+01	5.51E-06	2.07E-05	3.55E-09
214	1	Surface	Antimony	mg/kg	5.70E-01	2.79E-07	1.31E-06	1.80E-10
215	1	Surface	Antimony	mg/kg	6.80E-01	3.33E-07	1.56E-06	2.15E-10
215	1	Surface	Chromium	mg/kg	5.73E+01	2.80E-05	1.32E-04	1.81E-08
215	1	Surface	Iron	mg/kg	3.87E+04	1.89E-02	8.90E-02	1.22E-05
215	1	Surface	Nickel	mg/kg	7.32E+01	3.58E-05	1.35E-04	2.31E-08
215	1	Surface	Total PAH	mg/kg	8.09E-02	3.96E-08	4.84E-07	1.89E-09
216	1	Surface	Chromium	mg/kg	2.38E+01	1.16E-05	5.47E-05	7.51E-09
216	1	Surface	Total PAH	mg/kg	1.49E-01	7.31E-08	8.93E-07	3.48E-09
216	1	Surface	Uranium-238	pCi/g	1.33E+00	6.51E-07		4.20E-10
217	1	Surface	Chromium	mg/kg	8.58E+01	4.20E-05	1.97E-04	2.71E-08
217	1	Surface	Cobalt	mg/kg	1.96E+01	9.57E-06	4.50E-05	6.18E-09
217	1	Surface	Manganese	mg/kg	7.70E+02	3.77E-04	1.42E-03	2.43E-07
217	1	Surface	Nickel	mg/kg	8.54E+01	4.18E-05	1.57E-04	2.70E-08
217	1	Surface	Silver	mg/kg	1.35E+01	6.58E-06	2.47E-05	4.25E-09
217	1	Surface	Uranium-238	pCi/g	1.15E+00	5.65E-07		3.64E-10
217	2	Surface	Antimony	mg/kg	1.70E+00	8.32E-07	3.91E-06	5.37E-10
217	2	Surface	Arsenic	mg/kg	1.12E+01	5.46E-06	1.54E-05	3.52E-09
217	2	Surface	Chromium	mg/kg	1.02E+02	4.97E-05	2.34E-04	3.21E-08
217	2	Surface	Cobalt	mg/kg	1.74E+01	8.51E-06	4.00E-05	5.49E-09
217	2	Surface	Iron	mg/kg	3.09E+04	1.51E-02	7.11E-02	9.76E-06
217	2	Surface	Manganese	mg/kg	8.44E+02	4.13E-04	1.55E-03	2.66E-07
217	2	Surface	Mercury	mg/kg	8.59E+00	4.20E-06	1.98E-05	8.08E-05
217	2	Surface	Nickel	mg/kg	9.74E+01	4.76E-05	1.79E-04	3.07E-08
217	2	Surface	Silver	mg/kg	1.61E+01	7.87E-06	2.96E-05	5.08E-09
217	2	Surface	Total PAH	mg/kg	5.05E-01	2.47E-07	3.02E-06	1.18E-08
219	1	Surface	Neptunium-237	pCi/g	3.31E-01	1.62E-07		1.04E-10
219	1	Surface	Nickel	mg/kg	6.71E+01	3.28E-05	1.23E-04	2.12E-08
219	1	Surface	Total PAH	mg/kg	7.50E-02	3.67E-08	4.49E-07	1.75E-09
219	1	Surface	Uranium-235	pCi/g	1.92E-01	9.39E-08		6.06E-11
219	1	Surface	Uranium-238	pCi/g	4.40E+00	2.15E-06		1.39E-09
221	1	Surface	Barium	mg/kg	2.21E+02	1.08E-04	5.08E-04	6.98E-08
221	1	Surface	Chromium	mg/kg	7.01E+01	3.43E-05	1.61E-04	2.21E-08
221	1	Surface	Iron	mg/kg	1.90E+04	9.28E-03	4.36E-02	5.99E-06
221	1	Surface	Nickel	mg/kg	7.93E+01	3.88E-05	1.46E-04	2.50E-08
221	1	Surface	PCB, Total	mg/kg	5.00E-01	2.45E-07	3.22E-06	2.66E-07
221	1	Surface	Total PAH	mg/kg	1.02E+00	5.00E-07	6.11E-06	2.39E-08
221	1	Surface	Uranium	mg/kg	1.64E+01	8.00E-06	3.76E-05	5.16E-09
221	1	Surface	Uranium-238	pCi/g	1.93E+00	9.44E-07		6.09E-10
222	1	Surface	Chromium	mg/kg	4.73E+01	2.31E-05	1.09E-04	1.49E-08
222	1	Surface	Nickel	mg/kg	9.19E+01	4.50E-05	1.69E-04	2.90E-08
222	1	Surface	PCB, Total	mg/kg	1.40E+00	6.85E-07	9.01E-06	7.45E-07
222	1	Surface	Total PAH	mg/kg	1.77E-01	8.67E-08	1.06E-06	4.13E-09
222	1	Surface	Uranium	mg/kg	2.80E+01	1.37E-05	6.43E-05	8.83E-09
222	1	Surface	Uranium-234	pCi/g	1.04E+01	5.09E-06		3.28E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
222	1	Surface	Uranium-235	pCi/g	7.10E-01	3.47E-07		2.24E-10
222	1	Surface	Uranium-238	pCi/g	1.96E+01	9.59E-06		6.19E-09
224	1	Surface	Chromium	mg/kg	4.49E+01	2.20E-05	1.03E-04	1.42E-08
224	1	Surface	PCB, Total	mg/kg	4.75E+02	2.32E-04	3.06E-03	2.53E-04
224	1	Surface	Total PAH	mg/kg	4.53E+01	2.21E-05	2.71E-04	1.06E-06
224	1	Surface	Uranium	mg/kg	4.15E+01	2.03E-05	9.54E-05	1.31E-08
224	1	Surface	Uranium-235	pCi/g	2.50E-01	1.22E-07		7.89E-11
224	1	Surface	Uranium-238	pCi/g	2.64E+01	1.29E-05		8.33E-09
225	1	Surface	Chromium	mg/kg	2.55E+01	1.25E-05	5.86E-05	8.05E-09
225	1	Surface	Total PAH	mg/kg	7.79E-02	3.81E-08	4.65E-07	1.82E-09
225	1	Surface	Uranium-238	pCi/g	2.04E+00	9.98E-07		6.44E-10
226	1	Surface	Americium-241	pCi/g	1.62E+00	7.94E-07		5.12E-10
226	1	Surface	Antimony	mg/kg	6.60E-01	3.23E-07	1.52E-06	2.08E-10
226	1	Surface	Cesium-137	pCi/g	2.65E+00	1.30E-06		8.36E-10
226	1	Surface	Chromium	mg/kg	4.25E+01	2.08E-05	9.78E-05	1.34E-08
226	1	Surface	Cobalt-60	pCi/g	3.14E-03	1.54E-09		9.91E-13
226	1	Surface	Manganese	mg/kg	6.30E+02	3.08E-04	1.16E-03	1.99E-07
226	1	Surface	Mercury	mg/kg	9.74E+00	4.77E-06	2.24E-05	9.16E-05
226	1	Surface	Neptunium-237	pCi/g	1.60E+02	7.83E-05		5.05E-08
226	1	Surface	Nickel	mg/kg	2.10E+02	1.03E-04	3.86E-04	6.62E-08
226	1	Surface	PCB, Total	mg/kg	1.49E+00	7.29E-07	9.59E-06	7.93E-07
226	1	Surface	Plutonium-238	pCi/g	2.13E+00	1.04E-06		6.73E-10
226	1	Surface	Plutonium-239/240	pCi/g	6.52E+00	3.19E-06		2.06E-09
226	1	Surface	Technetium-99	pCi/g	4.96E+01	2.43E-05		1.57E-08
226	1	Surface	Thorium-230	pCi/g	4.77E+01	2.33E-05		1.51E-08
226	1	Surface	Total PAH	mg/kg	9.19E-02	4.50E-08	5.49E-07	2.14E-09
226	1	Surface	Uranium	mg/kg	4.01E+02	1.96E-04	9.22E-04	1.27E-07
226	1	Surface	Uranium-234	pCi/g	2.29E+01	1.12E-05		7.24E-09
226	1	Surface	Uranium-235	pCi/g	1.10E+00	5.39E-07		3.48E-10
226	1	Surface	Uranium-238	pCi/g	2.40E+01	1.17E-05		7.58E-09
227	1	Surface	Beryllium	mg/kg	5.52E-01	2.70E-07	1.78E-07	1.74E-10
227	1	Surface	Cesium-137	pCi/g	1.90E-01	9.30E-08		6.00E-11
227	1	Surface	Chromium	mg/kg	4.71E+01	2.31E-05	1.08E-04	1.49E-08
227	1	Surface	Cobalt-60	pCi/g	1.53E-02	7.49E-09		4.83E-12
227	1	Surface	Neptunium-237	pCi/g	9.05E-01	4.43E-07		2.86E-10
227	1	Surface	Nickel	mg/kg	2.03E+02	9.93E-05	3.73E-04	6.41E-08
227	1	Surface	PCB, Total	mg/kg	4.14E+00	2.03E-06	2.67E-05	2.20E-06
227	1	Surface	Technetium-99	pCi/g	4.77E+01	2.33E-05		1.51E-08
227	1	Surface	Total PAH	mg/kg	3.38E-01	1.65E-07	2.02E-06	7.88E-09
227	1	Surface	Uranium	mg/kg	1.02E+02	4.97E-05	2.34E-04	3.21E-08
227	1	Surface	Uranium-234	pCi/g	1.54E+01	7.55E-06		4.87E-09
227	1	Surface	Uranium-235	pCi/g	1.49E+00	7.29E-07		4.70E-10
227	1	Surface	Uranium-238	pCi/g	4.63E+01	2.26E-05		1.46E-08
227	2	Surface	Beryllium	mg/kg	5.32E-01	2.60E-07	1.71E-07	1.68E-10
227	2	Surface	Chromium	mg/kg	5.63E+01	2.75E-05	1.29E-04	1.78E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
227	2	Surface	Cobalt	mg/kg	8.99E+00	4.40E-06	2.07E-05	2.84E-09
227	2	Surface	Cobalt-60	pCi/g	1.37E-02	6.70E-09		4.32E-12
227	2	Surface	Mercury	mg/kg	8.41E+00	4.11E-06	1.93E-05	7.91E-05
227	2	Surface	Nickel	mg/kg	1.25E+02	6.11E-05	2.30E-04	3.94E-08
227	2	Surface	PCB, Total	mg/kg	5.82E+00	2.85E-06	3.75E-05	3.10E-06
227	2	Surface	Total PAH	mg/kg	1.16E-01	5.66E-08	6.92E-07	2.70E-09
227	2	Surface	Uranium	mg/kg	1.51E+01	7.36E-06	3.46E-05	4.75E-09
227	2	Surface	Uranium-238	pCi/g	1.57E+00	7.70E-07		4.96E-10
228	1	Surface	Antimony	mg/kg	6.30E-01	3.08E-07	1.45E-06	1.99E-10
228	1	Surface	Cadmium	mg/kg	3.90E+00	1.91E-06	1.79E-07	1.23E-09
228	1	Surface	Chromium	mg/kg	1.89E+02	9.24E-05	4.34E-04	5.96E-08
228	1	Surface	Mercury	mg/kg	9.37E+00	4.58E-06	2.15E-05	8.82E-05
228	1	Surface	Neptunium-237	pCi/g	8.00E-01	3.91E-07		2.53E-10
228	1	Surface	Nickel	mg/kg	7.92E+01	3.87E-05	1.46E-04	2.50E-08
228	1	Surface	Silver	mg/kg	1.16E+01	5.69E-06	2.14E-05	3.67E-09
228	1	Surface	Total PAH	mg/kg	6.69E-02	3.27E-08	4.00E-07	1.56E-09
228	1	Surface	Uranium	mg/kg	1.51E+01	7.40E-06	3.48E-05	4.78E-09
228	1	Surface	Uranium-235	pCi/g	1.78E-01	8.71E-08		5.62E-11
228	1	Surface	Uranium-238	pCi/g	3.77E+00	1.84E-06		1.19E-09
229	1	Surface	Nickel	mg/kg	9.14E+01	4.47E-05	1.68E-04	2.88E-08
229	1	Surface	Total PAH	mg/kg	1.57E-01	7.67E-08	9.37E-07	3.66E-09
229	1	Surface	Uranium	mg/kg	1.56E+02	7.62E-05	3.58E-04	4.92E-08
229	1	Surface	Uranium-238	pCi/g	2.86E+00	1.40E-06		9.03E-10
229	2	Surface	Arsenic	mg/kg	2.12E+01	1.04E-05	2.92E-05	6.69E-09
229	2	Surface	Beryllium	mg/kg	7.90E-01	3.86E-07	2.54E-07	2.49E-10
229	2	Surface	Chromium	mg/kg	2.91E+01	1.43E-05	6.70E-05	9.20E-09
229	2	Surface	Neptunium-237	pCi/g	2.87E-01	1.40E-07		9.06E-11
229	2	Surface	Nickel	mg/kg	9.93E+01	4.86E-05	1.83E-04	3.13E-08
229	2	Surface	Total PAH	mg/kg	1.69E+00	8.29E-07	1.01E-05	3.96E-08
229	2	Surface	Uranium	mg/kg	7.45E+01	3.64E-05	1.71E-04	2.35E-08
229	2	Surface	Uranium-234	pCi/g	1.22E+01	5.97E-06		3.85E-09
229	2	Surface	Uranium-235	pCi/g	8.40E-01	4.11E-07		2.65E-10
229	2	Surface	Uranium-238	pCi/g	2.49E+01	1.22E-05		7.86E-09
483	1	Surface	Nickel	mg/kg	1.17E+02	5.70E-05	2.14E-04	3.68E-08
483	1	Surface	Silver	mg/kg	1.12E+01	5.47E-06	2.06E-05	3.53E-09
483	1	Surface	Total PAH	mg/kg	2.39E-02	1.17E-08	1.43E-07	5.58E-10
486	1	Surface	Cesium-137	pCi/g				
487	1	Surface	Cesium-137	pCi/g				
488	1	Surface	Cesium-137	pCi/g	5.20E-01	2.54E-07		1.64E-10
488	1	Surface	PCB, Total	mg/kg	1.03E+01	5.04E-06	6.63E-05	5.48E-06
488	1	Surface	Total PAH	mg/kg	2.50E-01	1.22E-07	1.49E-06	5.83E-09
488	1	Surface	Uranium	mg/kg	1.48E+01	7.24E-06	3.40E-05	4.67E-09
488	1	Surface	Uranium-235	pCi/g	1.49E-01	7.29E-08		4.70E-11
488	1	Surface	Uranium-238	pCi/g	4.54E+00	2.22E-06		1.43E-09
489	1	Surface	Chromium	mg/kg	4.16E+01	2.04E-05	9.57E-05	1.31E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
489	1	Surface	Nickel	mg/kg	7.88E+01	3.86E-05	1.45E-04	2.49E-08
489	1	Surface	Total PAH	mg/kg	8.22E-02	4.02E-08	4.91E-07	1.92E-09
489	1	Surface	Uranium-238	pCi/g	1.47E+00	7.19E-07		4.64E-10
492	1	Surface	Arsenic	mg/kg	1.47E+01	7.19E-06	2.03E-05	4.64E-09
492	1	Surface	Beryllium	mg/kg	1.04E+01	5.09E-06	3.35E-06	3.28E-09
492	1	Surface	Cadmium	mg/kg	3.14E+00	1.54E-06	1.44E-07	9.91E-10
492	1	Surface	Chromium	mg/kg	1.04E+03	5.09E-04	2.39E-03	3.28E-07
492	1	Surface	Cobalt-60	pCi/g	9.63E-03	4.71E-09		3.04E-12
492	1	Surface	Neptunium-237	pCi/g	2.09E-01	1.02E-07		6.60E-11
492	1	Surface	PCB, Total	mg/kg	4.41E+01	2.16E-05	2.84E-04	2.35E-05
492	1	Surface	Uranium	mg/kg	1.77E+03	8.66E-04	4.07E-03	5.59E-07
492	1	Surface	Uranium-234	pCi/g	5.39E+01	2.64E-05		1.70E-08
492	1	Surface	Uranium-235	pCi/g	5.72E+00	2.80E-06		1.81E-09
492	1	Surface	Uranium-238	pCi/g	3.83E+02	1.87E-04		1.21E-07
492	1	Surface	Vanadium	mg/kg	4.32E+01	2.11E-05	5.17E-05	1.36E-08
493	1	Surface	Aluminum	mg/kg	1.44E+04	7.05E-03	3.31E-02	4.55E-06
493	1	Surface	Barium	mg/kg	4.04E+02	1.98E-04	9.29E-04	1.28E-07
493	1	Surface	Beryllium	mg/kg	9.91E-01	4.85E-07	3.19E-07	3.13E-10
493	1	Surface	Chromium	mg/kg	6.61E+01	3.23E-05	1.52E-04	2.09E-08
493	1	Surface	Cobalt	mg/kg	3.79E+01	1.85E-05	8.71E-05	1.20E-08
493	1	Surface	Cobalt-60	pCi/g	1.36E-02	6.65E-09		4.29E-12
493	1	Surface	Manganese	mg/kg	3.55E+03	1.74E-03	6.53E-03	1.12E-06
493	1	Surface	Mercury	mg/kg	2.60E-01	1.27E-07	5.98E-07	2.45E-06
493	1	Surface	Neptunium-237	pCi/g	1.22E-01	5.97E-08		3.85E-11
493	1	Surface	Nickel	mg/kg	2.13E+02	1.04E-04	3.92E-04	6.72E-08
493	1	Surface	PCB, Total	mg/kg	2.60E-01	1.27E-07	1.67E-06	1.38E-07
493	1	Surface	Total PAH	mg/kg	5.00E-01	2.45E-07	2.99E-06	1.17E-08
493	1	Surface	Uranium-235	pCi/g	1.65E-01	8.07E-08		5.21E-11
493	1	Surface	Uranium-238	pCi/g	5.50E+00	2.69E-06		1.74E-09
493	1	Surface	Vanadium	mg/kg	4.05E+01	1.98E-05	4.84E-05	1.28E-08
517	1	Surface	Beryllium	mg/kg	7.39E-01	3.62E-07	2.38E-07	2.33E-10
517	1	Surface	Chromium	mg/kg	4.91E+01	2.40E-05	1.13E-04	1.55E-08
517	1	Surface	Cobalt-60	pCi/g	6.39E-03	3.13E-09		2.02E-12
517	1	Surface	Neptunium-237	pCi/g	1.07E+00	5.23E-07		3.38E-10
517	1	Surface	Nickel	mg/kg	1.72E+02	8.41E-05	3.16E-04	5.43E-08
517	1	Surface	PCB, Total	mg/kg	5.00E-01	2.45E-07	3.22E-06	2.66E-07
517	1	Surface	Uranium-235	pCi/g	1.60E-01	7.83E-08		5.05E-11
517	1	Surface	Uranium-238	pCi/g	3.89E+00	1.90E-06		1.23E-09
518	1	Surface	Carbazole	mg/kg	1.17E+01	5.73E-06	5.39E-05	1.72E-06
518	1	Surface	Cobalt	mg/kg	6.80E+00	3.33E-06	1.56E-05	2.15E-09
518	1	Surface	Nickel	mg/kg	1.29E+01	6.29E-06	2.37E-05	4.06E-09
518	1	Surface	PCB, Total	mg/kg	6.30E-01	3.08E-07	4.06E-06	3.35E-07
518	1	Surface	Pyrene	mg/kg	3.94E+01	1.93E-05	2.36E-04	8.18E-06
518	1	Surface	Total PAH	mg/kg	4.64E+00	2.27E-06	2.77E-05	1.08E-07
518	1	Surface	Uranium	mg/kg	2.17E+02	1.06E-04	4.99E-04	6.85E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
518	1	Surface	Uranium-235	pCi/g	6.74E-02	3.30E-08		2.13E-11
518	1	Surface	Uranium-238	pCi/g	1.51E+00	7.41E-07		4.78E-10
520	1	Surface	Cesium-137	pCi/g	9.62E-01	4.71E-07		3.04E-10
520	1	Surface	Chromium	mg/kg	3.17E+01	1.55E-05	7.30E-05	1.00E-08
520	1	Surface	Iron	mg/kg	1.56E+04	7.63E-03	3.58E-02	4.92E-06
520	1	Surface	Mercury	mg/kg	1.07E+01	5.23E-06	2.46E-05	1.00E-04
520	1	Surface	Neptunium-237	pCi/g	6.56E-01	3.21E-07		2.07E-10
520	1	Surface	Nickel	mg/kg	2.60E+02	1.27E-04	4.79E-04	8.22E-08
520	1	Surface	Silver	mg/kg	1.30E+01	6.35E-06	2.39E-05	4.09E-09
520	1	Surface	Thorium-230	pCi/g	1.13E+01	5.55E-06		3.58E-09
520	1	Surface	Total PAH	mg/kg	3.18E-02	1.56E-08	1.90E-07	7.43E-10
520	1	Surface	Uranium	mg/kg	2.29E+01	1.12E-05	5.27E-05	7.24E-09
520	1	Surface	Uranium-235	pCi/g	1.26E-01	6.16E-08		3.98E-11
520	1	Surface	Uranium-238	pCi/g	3.93E+00	1.92E-06		1.24E-09
520	2	Surface	Beryllium	mg/kg	5.79E-01	2.83E-07	1.86E-07	1.83E-10
520	2	Surface	Chromium	mg/kg	6.67E+01	3.26E-05	1.53E-04	2.10E-08
520	2	Surface	Manganese	mg/kg	5.89E+02	2.88E-04	1.08E-03	1.86E-07
520	2	Surface	Mercury	mg/kg	1.19E+01	5.81E-06	2.73E-05	1.12E-04
520	2	Surface	Neptunium-237	pCi/g	7.48E-02	3.66E-08		2.36E-11
520	2	Surface	Nickel	mg/kg	3.11E+02	1.52E-04	5.71E-04	9.80E-08
520	2	Surface	Total PAH	mg/kg	3.17E-01	1.55E-07	1.90E-06	7.40E-09
520	2	Surface	Uranium	mg/kg	3.96E+01	1.94E-05	9.10E-05	1.25E-08
520	2	Surface	Uranium-238	pCi/g	1.78E+00	8.70E-07		5.61E-10
520	3	Surface	Chromium	mg/kg	3.97E+01	1.94E-05	9.12E-05	1.25E-08
520	3	Surface	Copper	mg/kg	1.19E+02	5.82E-05	2.74E-04	3.76E-08
520	3	Surface	Nickel	mg/kg	2.65E+02	1.30E-04	4.87E-04	8.36E-08
520	3	Surface	Silver	mg/kg	1.27E+01	6.20E-06	2.33E-05	4.00E-09
520	3	Surface	Total PAH	mg/kg	1.18E-01	5.78E-08	7.06E-07	2.76E-09
520	3	Surface	Uranium	mg/kg	1.92E+01	9.41E-06	4.42E-05	6.07E-09
520	3	Surface	Uranium-238	pCi/g	1.57E+00	7.68E-07		4.96E-10
520	4	Surface	Chromium	mg/kg	3.82E+01	1.87E-05	8.79E-05	1.21E-08
520	4	Surface	Copper	mg/kg	1.11E+02	5.41E-05	2.54E-04	3.49E-08
520	4	Surface	Mercury	mg/kg	9.69E+00	4.74E-06	2.23E-05	9.12E-05
520	4	Surface	Neptunium-237	pCi/g	7.40E-01	3.62E-07		2.34E-10
520	4	Surface	Nickel	mg/kg	2.82E+02	1.38E-04	5.19E-04	8.90E-08
520	4	Surface	Silver	mg/kg	1.04E+01	5.11E-06	1.92E-05	3.30E-09
520	4	Surface	Total PAH	mg/kg	5.52E-01	2.70E-07	3.30E-06	1.29E-08
520	4	Surface	Uranium	mg/kg	2.40E+01	1.18E-05	5.52E-05	7.58E-09
520	4	Surface	Uranium-235	pCi/g	2.42E-01	1.18E-07		7.64E-11
520	4	Surface	Uranium-238	pCi/g	6.26E+00	3.06E-06		1.98E-09
520	5	Surface	Antimony	mg/kg	9.60E-01	4.70E-07	2.21E-06	3.03E-10
520	5	Surface	Chromium	mg/kg	3.68E+01	1.80E-05	8.47E-05	1.16E-08
520	5	Surface	Neptunium-237	pCi/g	1.55E-01	7.58E-08		4.89E-11
520	5	Surface	Nickel	mg/kg	1.47E+02	7.19E-05	2.70E-04	4.64E-08
520	5	Surface	Total PAH	mg/kg	3.87E-01	1.89E-07	2.32E-06	9.04E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
520	5	Surface	Uranium-238	pCi/g	1.45E+00	7.09E-07		4.58E-10
531	1	Surface	Antimony	mg/kg	1.00E+00	4.89E-07	2.30E-06	3.16E-10
531	1	Surface	Arsenic	mg/kg	4.68E+01	2.29E-05	6.46E-05	1.48E-08
531	1	Surface	Cadmium	mg/kg	3.10E+00	1.52E-06	1.43E-07	9.78E-10
531	1	Surface	Chromium	mg/kg	5.05E+01	2.47E-05	1.16E-04	1.59E-08
531	1	Surface	Iron	mg/kg	5.68E+04	2.78E-02	1.31E-01	1.79E-05
531	1	Surface	Nickel	mg/kg	1.62E+02	7.94E-05	2.98E-04	5.12E-08
531	1	Surface	Total PAH	mg/kg	5.34E-02	2.61E-08	3.19E-07	1.25E-09
531	1	Surface	Uranium	mg/kg	2.41E+01	1.18E-05	5.53E-05	7.60E-09
531	1	Surface	Uranium-235	pCi/g	1.38E-01	6.75E-08		4.36E-11
531	1	Surface	Uranium-238	pCi/g	3.48E+00	1.70E-06		1.10E-09
531	1	Surface	Zinc	mg/kg	2.45E+03	1.20E-03	5.64E-03	7.74E-07
541	1	Surface	Aluminum	mg/kg	1.43E+04	6.99E-03	3.29E-02	4.51E-06
541	1	Surface	Americium-241	pCi/g	7.53E+00	3.68E-06		2.38E-09
541	1	Surface	Barium	mg/kg	1.28E+02	6.26E-05	2.94E-04	4.04E-08
541	1	Surface	Beryllium	mg/kg	6.98E-01	3.41E-07	2.25E-07	2.20E-10
541	1	Surface	Cadmium	mg/kg	1.68E+00	8.23E-07	7.74E-08	5.31E-10
541	1	Surface	Cesium-137	pCi/g	9.58E-01	4.69E-07		3.02E-10
541	1	Surface	Chromium	mg/kg	8.24E+02	4.03E-04	1.89E-03	2.60E-07
541	1	Surface	Cobalt-60	pCi/g	1.01E-02	4.94E-09		3.19E-12
541	1	Surface	Iron	mg/kg	1.60E+04	7.81E-03	3.67E-02	5.04E-06
541	1	Surface	Mercury	mg/kg	9.81E-02	4.80E-08	2.26E-07	9.23E-07
541	1	Surface	Naphthalene	mg/kg	6.55E-01	3.20E-07	7.53E-06	6.89E-06
541	1	Surface	Neptunium-237	pCi/g	5.52E-02	2.70E-08		1.74E-11
541	1	Surface	Nickel	mg/kg	1.52E+01	7.46E-06	2.80E-05	4.81E-09
541	1	Surface	PCB, Total	mg/kg	6.06E+01	2.97E-05	3.90E-04	3.23E-05
541	1	Surface	Total PAH	mg/kg	2.33E+00	1.14E-06	1.39E-05	5.44E-08
541	1	Surface	Uranium	mg/kg	6.38E+03	3.12E-03	1.47E-02	2.01E-06
541	1	Surface	Uranium-234	pCi/g	1.43E+02	6.99E-05		4.51E-08
541	1	Surface	Uranium-235	pCi/g	1.76E+01	8.59E-06		5.54E-09
541	1	Surface	Uranium-238	pCi/g	1.00E+03	4.90E-04		3.16E-07
541	1	Surface	Vanadium	mg/kg	3.04E+01	1.49E-05	3.64E-05	9.61E-09
561	1	Surface	Antimony	mg/kg	9.36E-01	4.58E-07	2.15E-06	2.95E-10
561	1	Surface	Arsenic	mg/kg	1.66E+01	8.10E-06	2.28E-05	5.22E-09
561	1	Surface	Barium	mg/kg	1.40E+02	6.86E-05	3.22E-04	4.43E-08
561	1	Surface	Beryllium	mg/kg	6.85E-01	3.35E-07	2.21E-07	2.16E-10
561	1	Surface	Chromium	mg/kg	8.58E+01	4.20E-05	1.97E-04	2.71E-08
561	1	Surface	Cobalt	mg/kg	1.07E+01	5.23E-06	2.46E-05	3.37E-09
561	1	Surface	Cobalt-60	pCi/g	7.06E-02	3.45E-08		2.23E-11
561	1	Surface	Iron	mg/kg	2.05E+04	1.00E-02	4.71E-02	6.46E-06
561	1	Surface	Manganese	mg/kg	1.61E+03	7.87E-04	2.96E-03	5.08E-07
561	1	Surface	Neptunium-237	pCi/g	2.71E-02	1.33E-08		8.55E-12
561	1	Surface	PCB, Total	mg/kg	1.04E+00	5.10E-07	6.71E-06	5.54E-07
561	1	Surface	Thallium	mg/kg	3.33E-01	1.63E-07	7.66E-07	1.05E-10
561	1	Surface	Total PAH	mg/kg	1.65E-01	8.08E-08	9.87E-07	3.85E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
561	1	Surface	Uranium	mg/kg	2.65E+02	1.30E-04	6.09E-04	8.36E-08
561	1	Surface	Uranium-234	pCi/g	7.84E+00	3.84E-06		2.47E-09
561	1	Surface	Uranium-235	pCi/g	1.37E+00	6.68E-07		4.31E-10
561	1	Surface	Uranium-238	pCi/g	1.07E+02	5.21E-05		3.36E-08
561	1	Surface	Vanadium	mg/kg	3.76E+01	1.84E-05	4.50E-05	1.19E-08
561	2	Surface	Antimony	mg/kg	5.33E+00	2.61E-06	1.23E-05	1.68E-09
561	2	Surface	Arsenic	mg/kg	1.30E+01	6.36E-06	1.79E-05	4.11E-09
561	2	Surface	Beryllium	mg/kg	6.34E-01	3.10E-07	2.04E-07	2.00E-10
561	2	Surface	Cadmium	mg/kg	4.13E-01	2.02E-07	1.90E-08	1.30E-10
561	2	Surface	Cesium-137	pCi/g	4.09E-01	2.00E-07		1.29E-10
561	2	Surface	Chromium	mg/kg	2.88E+02	1.41E-04	6.63E-04	9.10E-08
561	2	Surface	Cobalt	mg/kg	1.14E+01	5.58E-06	2.62E-05	3.60E-09
561	2	Surface	Cobalt-60	pCi/g	2.76E-02	1.35E-08		8.71E-12
561	2	Surface	Manganese	mg/kg	1.12E+03	5.45E-04	2.05E-03	3.52E-07
561	2	Surface	Neptunium-237	pCi/g	4.71E-02	2.30E-08		1.49E-11
561	2	Surface	PCB, Total	mg/kg	1.64E+01	8.00E-06	1.05E-04	8.71E-06
561	2	Surface	Thallium	mg/kg	4.09E-01	2.00E-07	9.40E-07	1.29E-10
561	2	Surface	Total PAH	mg/kg	4.43E-01	2.17E-07	2.65E-06	1.03E-08
561	2	Surface	Uranium	mg/kg	1.38E+03	6.77E-04	3.18E-03	4.37E-07
561	2	Surface	Uranium-234	pCi/g	4.06E+01	1.99E-05		1.28E-08
561	2	Surface	Uranium-235	pCi/g	7.09E+00	3.47E-06		2.24E-09
561	2	Surface	Uranium-238	pCi/g	4.00E+02	1.96E-04		1.26E-07
561	2	Surface	Vanadium	mg/kg	3.46E+01	1.69E-05	4.13E-05	1.09E-08
562	1	Surface	Uranium	mg/kg	8.73E+01	4.27E-05	2.01E-04	2.76E-08
562	1	Surface	Uranium-238	pCi/g	2.73E+00	1.34E-06		8.62E-10
562	2	Surface	PCB, Total	mg/kg	1.58E+00	7.73E-07	1.02E-05	8.41E-07
562	2	Surface	Uranium-234	pCi/g	5.34E+01	2.61E-05		1.69E-08
562	2	Surface	Uranium-235	pCi/g	8.96E+00	4.38E-06		2.83E-09
562	2	Surface	Uranium-238	pCi/g	5.81E+02	2.84E-04		1.83E-07
562	3	Surface	Chromium	mg/kg	3.82E+01	1.87E-05	8.77E-05	1.20E-08
562	3	Surface	PCB, Total	mg/kg	2.40E-01	1.17E-07	1.55E-06	1.28E-07
562	3	Surface	Total PAH	mg/kg	2.20E-01	1.08E-07	1.32E-06	5.13E-09
562	3	Surface	Uranium	mg/kg	5.89E+01	2.88E-05	1.35E-04	1.86E-08
562	3	Surface	Uranium-235	pCi/g	1.63E-01	7.97E-08		5.14E-11
562	3	Surface	Uranium-238	pCi/g	1.09E+01	5.33E-06		3.44E-09
562	4	Surface	Chromium	mg/kg	4.67E+01	2.28E-05	1.07E-04	1.47E-08
562	4	Surface	Uranium	mg/kg	2.10E+01	1.03E-05	4.83E-05	6.63E-09
562	4	Surface	Uranium-238	pCi/g	2.24E+00	1.10E-06		7.07E-10
562	5	Surface	Chromium	mg/kg	1.53E+02	7.49E-05	3.52E-04	4.83E-08
562	5	Surface	PCB, Total	mg/kg	9.50E-01	4.65E-07	6.12E-06	5.05E-07
562	5	Surface	Total PAH	mg/kg	7.05E-02	3.45E-08	4.21E-07	1.65E-09
562	5	Surface	Uranium	mg/kg	2.08E+02	1.02E-04	4.78E-04	6.57E-08
562	5	Surface	Uranium-234	pCi/g	8.57E+00	4.19E-06		2.71E-09
562	5	Surface	Uranium-235	pCi/g	5.68E-01	2.78E-07		1.79E-10
562	5	Surface	Uranium-235	pCi/g	9.50E-01	4.65E-07		3.00E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.9. Noncancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
562	5	Surface	Uranium-238	pCi/g	6.24E+01	3.05E-05		1.97E-08
563	1	Surface	Cadmium	mg/kg	8.96E-01	4.38E-07	4.12E-08	2.83E-10
563	1	Surface	Chromium	mg/kg	2.85E+02	1.39E-04	6.55E-04	9.00E-08
563	1	Surface	PCB, Total	mg/kg	7.40E-01	3.62E-07	4.76E-06	3.94E-07
563	1	Surface	Uranium	mg/kg	1.51E+01	7.38E-06	3.47E-05	4.76E-09
563	1	Surface	Uranium-238	pCi/g	2.76E+00	1.35E-06		8.71E-10
563	2	Surface	Cesium-137	pCi/g	6.47E-01	3.17E-07		2.04E-10
563	2	Surface	Uranium-238	pCi/g	1.49E+00	7.29E-07		4.70E-10
564	1	Surface	Arsenic	mg/kg	4.30E+01	2.10E-05	5.93E-05	1.36E-08
564	1	Surface	Beryllium	mg/kg	2.12E+00	1.04E-06	6.82E-07	6.69E-10
564	1	Surface	Cadmium	mg/kg	1.96E+00	9.59E-07	9.01E-08	6.19E-10
564	1	Surface	Cesium-137	pCi/g	6.20E-01	3.03E-07		1.96E-10
564	1	Surface	Chromium	mg/kg	7.49E+01	3.67E-05	1.72E-04	2.36E-08
564	1	Surface	Iron	mg/kg	3.66E+04	1.79E-02	8.42E-02	1.16E-05
564	1	Surface	Mercury	mg/kg	2.30E-01	1.13E-07	5.29E-07	2.16E-06
564	1	Surface	Nickel	mg/kg	2.24E+01	1.10E-05	4.12E-05	7.07E-09
564	1	Surface	PCB, Total	mg/kg	1.93E+00	9.44E-07	1.24E-05	1.03E-06
564	1	Surface	Thallium	mg/kg	2.36E+00	1.15E-06	5.43E-06	7.45E-10
564	1	Surface	Thorium-230	pCi/g	5.01E+00	2.45E-06		1.58E-09
564	1	Surface	Uranium	mg/kg	5.83E+01	2.85E-05	1.34E-04	1.84E-08
564	1	Surface	Uranium-234	pCi/g	6.93E+00	3.39E-06		2.19E-09
564	1	Surface	Uranium-235	pCi/g	3.37E-01	1.65E-07		1.06E-10
564	1	Surface	Uranium-235	pCi/g	3.87E-01	1.89E-07		1.22E-10
564	1	Surface	Uranium-238	pCi/g	8.33E+00	4.08E-06		2.63E-09
564	1	Surface	Vanadium	mg/kg	8.06E+01	3.94E-05	9.64E-05	2.54E-08
567	3	Surface	Chromium	mg/kg	3.79E+01	1.85E-05	8.71E-05	1.20E-08
567	4	Surface	Aluminum	mg/kg	1.25E+04	6.13E-03	2.88E-02	3.95E-06
567	4	Surface	Chromium	mg/kg	1.63E+01	7.97E-06	3.75E-05	5.14E-09
567	4	Surface	Uranium-238	pCi/g	1.05E+00	5.13E-07		3.31E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
1	1	Surface	Beryllium	mg/kg	3.89E+00	6.80E-07	4.48E-07	4.39E-10	
1	1	Surface	Cadmium	mg/kg	1.10E+00	1.92E-07	1.81E-08	1.24E-10	
1	1	Surface	Cesium-137	pCi/g	5.91E-01	1.85E+02		1.19E-01	2.70E+00
1	1	Surface	Chromium	mg/kg	1.28E+01	2.24E-06	1.05E-05	1.45E-09	
1	1	Surface	Neptunium-237	pCi/g	4.02E-01	1.26E+02		8.10E-02	1.84E+00
1	1	Surface	PCB, Total	mg/kg	1.76E-01	3.08E-08	4.05E-07	3.34E-08	
1	1	Surface	Plutonium-239/240	pCi/g	6.14E+00	1.92E+03		1.24E+00	2.80E+01
1	1	Surface	Thorium-230	pCi/g	4.40E+01	1.38E+04		8.87E+00	2.01E+02
1	1	Surface	Uranium-235	pCi/g	1.06E-01	3.31E+01		2.14E-02	4.84E-01
1	1	Surface	Uranium-238	pCi/g	1.97E+00	6.17E+02		3.98E-01	9.01E+00
1	2	Surface	Beryllium	mg/kg	8.23E+00	1.44E-06	9.46E-07	9.28E-10	
1	2	Surface	Cadmium	mg/kg	6.46E+00	1.13E-06	1.06E-07	7.28E-10	
1	2	Surface	Chromium	mg/kg	2.01E+02	3.52E-05	1.65E-04	2.27E-08	
1	2	Surface	Copper	mg/kg	1.81E+02	3.16E-05	1.49E-04	2.04E-08	
1	2	Surface	Mercury	mg/kg	5.94E+00	1.04E-06	4.88E-06	2.00E-05	
1	2	Surface	Nickel	mg/kg	5.75E+01	1.00E-05	3.78E-05	6.48E-09	
1	2	Surface	PCB, Total	mg/kg	3.22E+01	5.63E-06	7.41E-05	6.12E-06	
1	2	Surface	Silver	mg/kg	3.31E+01	5.79E-06	2.18E-05	3.74E-09	
1	2	Surface	Thallium	mg/kg	3.70E-01	6.46E-08	3.04E-07	4.17E-11	
1	2	Surface	Vanadium	mg/kg	3.49E+01	6.09E-06	1.49E-05	3.93E-09	
1	3	Surface	Chromium	mg/kg	1.45E+01	2.53E-06	1.19E-05	1.63E-09	
1	3	Surface	PCB, Total	mg/kg	2.17E-01	3.79E-08	4.99E-07	4.12E-08	
1	3	Surface	Uranium-238	pCi/g	1.73E+00	5.41E+02		3.49E-01	7.90E+00
1	4	Surface	Beryllium	mg/kg	7.25E-01	1.27E-07	8.34E-08	8.17E-11	
1	4	Surface	Chromium	mg/kg	9.30E+01	1.63E-05	7.64E-05	1.05E-08	
1	4	Surface	Cobalt-60	pCi/g	2.20E-02	6.88E+00		4.44E-03	1.00E-01
1	4	Surface	Nickel	mg/kg	4.69E+01	8.19E-06	3.08E-05	5.28E-09	
1	4	Surface	PCB, Total	mg/kg	1.30E-01	2.27E-08	2.99E-07	2.47E-08	
1	4	Surface	Thorium-230	pCi/g	5.03E+00	1.57E+03		1.01E+00	2.30E+01
1	5	Surface	Beryllium	mg/kg	8.30E+00	1.45E-06	9.54E-07	9.36E-10	
1	5	Surface	Cadmium	mg/kg	1.20E+00	2.10E-07	1.97E-08	1.35E-10	
1	5	Surface	Nickel	mg/kg	4.07E+01	7.11E-06	2.67E-05	4.59E-09	
1	5	Surface	PCB, Total	mg/kg	2.70E-01	4.72E-08	6.21E-07	5.13E-08	
1	5	Surface	Total PAH	mg/kg	9.83E-02	1.72E-08	2.10E-07	8.19E-10	
12	1	Surface	Aluminum	mg/kg	8.19E+03	1.43E-03	6.73E-03	9.24E-07	
12	1	Surface	Antimony	mg/kg	5.04E-01	8.81E-08	4.14E-07	5.68E-11	
12	1	Surface	Arsenic	mg/kg	1.34E+01	2.34E-06	6.60E-06	1.51E-09	
12	1	Surface	Barium	mg/kg	1.04E+02	1.81E-05	8.52E-05	1.17E-08	
12	1	Surface	Beryllium	mg/kg	6.72E+00	1.17E-06	7.73E-07	7.58E-10	
12	1	Surface	Cadmium	mg/kg	1.02E+00	1.78E-07	1.68E-08	1.15E-10	
12	1	Surface	Chromium	mg/kg	6.33E+01	1.11E-05	5.20E-05	7.14E-09	
12	1	Surface	Cobalt	mg/kg	9.16E+00	1.60E-06	7.52E-06	1.03E-09	
12	1	Surface	Iron	mg/kg	3.01E+04	5.25E-03	2.47E-02	3.39E-06	
12	1	Surface	Manganese	mg/kg	1.01E+03	1.77E-04	6.66E-04	1.14E-07	
12	1	Surface	Mercury	mg/kg	8.80E+00	1.54E-06	7.23E-06	2.96E-05	
12	1	Surface	Molybdenum	mg/kg	1.74E+01	3.04E-06	1.43E-05	1.96E-09	
12	1	Surface	Nickel	mg/kg	7.74E+01	1.35E-05	5.09E-05	8.73E-09	
12	1	Surface	PCB, Total	mg/kg	3.90E-01	6.81E-08	8.97E-07	7.41E-08	
12	1	Surface	Silver	mg/kg	1.10E+01	1.93E-06	7.24E-06	1.24E-09	
12	1	Surface	Thallium	mg/kg	1.03E+00	1.80E-07	8.46E-07	1.16E-10	
12	1	Surface	Total PAH	mg/kg	1.70E-01	2.97E-08	3.63E-07	1.42E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
12	1	Surface	Uranium	mg/kg	3.76E+02	6.56E-05	3.09E-04	4.24E-08	
12	1	Surface	Uranium-234	pCi/g	1.50E+01	4.69E+03		3.03E+00	6.86E+01
12	1	Surface	Uranium-235	pCi/g	1.53E+00	4.77E+02		3.08E-01	6.97E+00
12	1	Surface	Uranium-238	pCi/g	6.68E+01	2.09E+04		1.35E+01	3.05E+02
12	1	Surface	Vanadium	mg/kg	2.80E+01	4.90E-06	1.20E-05	3.16E-09	
13	1	Surface	PCB, Total	mg/kg	7.00E-01	1.22E-07	1.61E-06	1.33E-07	
13	4	Surface	Uranium-238	pCi/g	1.32E+00	4.13E+02		2.66E-01	6.03E+00
13	5	Surface	Aluminum	mg/kg	1.13E+04	1.97E-03	9.25E-03	1.27E-06	
13	5	Surface	Antimony	mg/kg	8.20E-01	1.43E-07	6.73E-07	9.24E-11	
13	5	Surface	Cadmium	mg/kg	1.20E+00	2.10E-07	1.97E-08	1.35E-10	
13	5	Surface	Chromium	mg/kg	1.51E+01	2.64E-06	1.24E-05	1.70E-09	
13	5	Surface	Nickel	mg/kg	1.17E+02	2.04E-05	7.65E-05	1.31E-08	
13	5	Surface	PCB, Total	mg/kg	1.05E+00	1.83E-07	2.41E-06	1.99E-07	
13	5	Surface	Total PAH	mg/kg	6.65E-02	1.16E-08	1.42E-07	5.54E-10	
13	5	Surface	Uranium	mg/kg	1.19E+02	2.08E-05	9.78E-05	1.34E-08	
13	6	Surface	Uranium-238	pCi/g	1.32E+00	4.11E+02		2.65E-01	6.01E+00
13	9	Surface	Neptunium-237	pCi/g	8.90E-01	2.78E+02		1.79E-01	4.06E+00
13	9	Surface	Uranium	mg/kg	1.82E+01	3.18E-06	1.49E-05	2.05E-09	
13	9	Surface	Uranium-235	pCi/g	3.11E-01	9.72E+01		6.27E-02	1.42E+00
13	9	Surface	Uranium-238	pCi/g	6.08E+00	1.90E+03		1.23E+00	2.78E+01
13	11	Surface	Cobalt-60	pCi/g	1.30E-02	4.06E+00		2.62E-03	5.94E-02
14	1	Surface	Americium-241	pCi/g	1.27E+00	3.96E+02		2.55E-01	5.79E+00
14	1	Surface	Arsenic	mg/kg	1.10E+01	1.92E-06	5.41E-06	1.24E-09	
14	1	Surface	Chromium	mg/kg	6.36E+01	1.11E-05	5.22E-05	7.17E-09	
14	1	Surface	Iron	mg/kg	1.89E+04	3.30E-03	1.55E-02	2.13E-06	
14	1	Surface	Neptunium-237	pCi/g	2.14E-01	6.69E+01		4.31E-02	9.77E-01
14	1	Surface	Nickel	mg/kg	1.40E+02	2.44E-05	9.18E-05	1.57E-08	
14	1	Surface	PCB, Total	mg/kg	5.00E-01	8.74E-08	1.15E-06	9.50E-08	
14	1	Surface	Silver	mg/kg	1.67E+01	2.92E-06	1.10E-05	1.88E-09	
14	1	Surface	Technetium-99	pCi/g	4.06E+02	1.27E+05		8.19E+01	1.85E+03
14	1	Surface	Uranium	mg/kg	7.21E+01	1.26E-05	5.92E-05	8.13E-09	
14	1	Surface	Uranium-238	pCi/g	1.69E+00	5.28E+02		3.41E-01	7.72E+00
14	2	Surface	Antimony	mg/kg	3.70E+00	6.46E-07	3.04E-06	4.17E-10	
14	2	Surface	Arsenic	mg/kg	1.45E+01	2.54E-06	7.16E-06	1.64E-09	
14	2	Surface	Beryllium	mg/kg	7.10E-01	1.24E-07	8.16E-08	8.00E-11	
14	2	Surface	Chromium	mg/kg	6.65E+01	1.16E-05	5.46E-05	7.50E-09	
14	2	Surface	Copper	mg/kg	1.76E+02	3.08E-05	1.45E-04	1.99E-08	
14	2	Surface	Iron	mg/kg	3.72E+04	6.50E-03	3.05E-02	4.19E-06	
14	2	Surface	Manganese	mg/kg	1.44E+03	2.52E-04	9.47E-04	1.63E-07	
14	2	Surface	Mercury	mg/kg	2.67E-01	4.67E-08	2.19E-07	8.97E-07	
14	2	Surface	Neptunium-237	pCi/g	7.70E-01	2.41E+02		1.55E-01	3.52E+00
14	2	Surface	Nickel	mg/kg	6.78E+02	1.18E-04	4.45E-04	7.64E-08	
14	2	Surface	PCB, Total	mg/kg	3.90E-01	6.81E-08	8.97E-07	7.41E-08	
14	2	Surface	Thorium-230	pCi/g	5.98E+00	1.87E+03		1.21E+00	2.73E+01
14	2	Surface	Total PAH	mg/kg	3.38E-01	5.91E-08	7.22E-07	2.82E-09	
14	2	Surface	Uranium	mg/kg	2.93E+02	5.12E-05	2.41E-04	3.31E-08	
14	2	Surface	Uranium-234	pCi/g	3.24E+01	1.01E+04		6.53E+00	1.48E+02
14	2	Surface	Uranium-235	pCi/g	2.00E+00	6.25E+02		4.03E-01	9.13E+00
14	2	Surface	Uranium-238	pCi/g	5.61E+01	1.75E+04		1.13E+01	2.56E+02
14	3	Surface	Arsenic	mg/kg	1.30E+01	2.27E-06	6.39E-06	1.46E-09	
14	3	Surface	Chromium	mg/kg	7.01E+01	1.23E-05	5.76E-05	7.91E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	3	Surface	Copper	mg/kg	1.29E+02	2.26E-05	1.06E-04	1.46E-08	
14	3	Surface	Iron	mg/kg	3.48E+04	6.09E-03	2.86E-02	3.93E-06	
14	3	Surface	Manganese	mg/kg	1.06E+03	1.85E-04	6.94E-04	1.19E-07	
14	3	Surface	Mercury	mg/kg	7.48E+00	1.31E-06	6.14E-06	2.51E-05	
14	3	Surface	Molybdenum	mg/kg	2.21E+01	3.86E-06	1.81E-05	2.49E-09	
14	3	Surface	Nickel	mg/kg	5.76E+02	1.01E-04	3.79E-04	6.50E-08	
14	3	Surface	PCB, Total	mg/kg	8.65E+00	1.51E-06	1.99E-05	1.64E-06	
14	3	Surface	Uranium	mg/kg	2.18E+02	3.80E-05	1.79E-04	2.45E-08	
14	3	Surface	Uranium-238	pCi/g	1.50E+00	4.69E+02		3.02E-01	6.85E+00
14	4	Surface	Antimony	mg/kg	4.30E+00	7.51E-07	3.53E-06	4.85E-10	
14	4	Surface	Arsenic	mg/kg	1.33E+01	2.32E-06	6.54E-06	1.50E-09	
14	4	Surface	Chromium	mg/kg	7.20E+01	1.26E-05	5.92E-05	8.12E-09	
14	4	Surface	Copper	mg/kg	3.54E+02	6.18E-05	2.90E-04	3.98E-08	
14	4	Surface	Iron	mg/kg	3.88E+04	6.79E-03	3.19E-02	4.38E-06	
14	4	Surface	Mercury	mg/kg	4.87E-01	8.51E-08	4.00E-07	1.64E-06	
14	4	Surface	Neptunium-237	pCi/g	2.68E+00	8.38E+02		5.40E-01	1.22E+01
14	4	Surface	Nickel	mg/kg	7.31E+02	1.28E-04	4.80E-04	8.23E-08	
14	4	Surface	PCB, Total	mg/kg	6.61E+00	1.15E-06	1.52E-05	1.26E-06	
14	4	Surface	Silver	mg/kg	1.17E+01	2.04E-06	7.69E-06	1.32E-09	
14	4	Surface	Thorium-230	pCi/g	8.33E+00	2.60E+03		1.68E+00	3.80E+01
14	4	Surface	Total PAH	mg/kg	2.51E-01	4.38E-08	5.35E-07	2.09E-09	
14	4	Surface	Uranium	mg/kg	3.72E+02	6.50E-05	3.05E-04	4.19E-08	
14	4	Surface	Uranium-234	pCi/g	1.13E+02	3.53E+04		2.28E+01	5.16E+02
14	4	Surface	Uranium-235	pCi/g	8.00E+00	2.50E+03		1.61E+00	3.65E+01
14	4	Surface	Uranium-238	pCi/g	1.69E+02	5.28E+04		3.41E+01	7.72E+02
14	5	Surface	Antimony	mg/kg	2.30E+00	4.02E-07	1.89E-06	2.59E-10	
14	5	Surface	Arsenic	mg/kg	1.31E+01	2.29E-06	6.44E-06	1.47E-09	
14	5	Surface	Cadmium	mg/kg	3.90E+00	6.81E-07	6.41E-08	4.40E-10	
14	5	Surface	Chromium	mg/kg	4.70E+01	8.21E-06	3.86E-05	5.29E-09	
14	5	Surface	Cobalt	mg/kg	1.40E+01	2.45E-06	1.15E-05	1.58E-09	
14	5	Surface	Copper	mg/kg	1.34E+02	2.33E-05	1.10E-04	1.50E-08	
14	5	Surface	Iron	mg/kg	3.92E+04	6.85E-03	3.22E-02	4.42E-06	
14	5	Surface	Manganese	mg/kg	8.28E+02	1.45E-04	5.44E-04	9.33E-08	
14	5	Surface	Mercury	mg/kg	1.09E+01	1.91E-06	8.98E-06	3.68E-05	
14	5	Surface	Neptunium-237	pCi/g	1.74E+00	5.44E+02		3.51E-01	7.95E+00
14	5	Surface	Nickel	mg/kg	4.61E+02	8.06E-05	3.03E-04	5.20E-08	
14	5	Surface	PCB, Total	mg/kg	1.00E+00	1.75E-07	2.30E-06	1.90E-07	
14	5	Surface	Silver	mg/kg	1.29E+01	2.25E-06	8.46E-06	1.45E-09	
14	5	Surface	Technetium-99	pCi/g	1.01E+02	3.16E+04		2.04E+01	4.61E+02
14	5	Surface	Thallium	mg/kg	4.10E-01	7.16E-08	3.37E-07	4.62E-11	
14	5	Surface	Thorium-230	pCi/g	1.39E+01	4.34E+03		2.80E+00	6.35E+01
14	5	Surface	Total PAH	mg/kg	1.21E-01	2.11E-08	2.58E-07	1.01E-09	
14	5	Surface	Uranium	mg/kg	2.62E+02	4.58E-05	2.15E-04	2.96E-08	
14	5	Surface	Uranium-234	pCi/g	5.22E+01	1.63E+04		1.05E+01	2.38E+02
14	5	Surface	Uranium-235	pCi/g	3.33E+00	1.04E+03		6.71E-01	1.52E+01
14	5	Surface	Uranium-238	pCi/g	9.42E+01	2.94E+04		1.90E+01	4.30E+02
14	6	Surface	Antimony	mg/kg	2.70E+00	4.72E-07	2.22E-06	3.04E-10	
14	6	Surface	Cadmium	mg/kg	8.40E-01	1.47E-07	1.38E-08	9.47E-11	
14	6	Surface	Chromium	mg/kg	4.46E+02	7.79E-05	3.66E-04	5.03E-08	
14	6	Surface	Copper	mg/kg	1.22E+02	2.14E-05	1.00E-04	1.38E-08	
14	6	Surface	Mercury	mg/kg	3.47E-01	6.06E-08	2.85E-07	1.17E-06	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	6	Surface	Neptunium-237	pCi/g	2.65E+00	8.28E+02		5.34E-01	1.21E+01
14	6	Surface	Nickel	mg/kg	9.63E+02	1.68E-04	6.33E-04	1.09E-07	
14	6	Surface	PCB, Total	mg/kg	5.00E+00	8.74E-07	1.15E-05	9.50E-07	
14	6	Surface	Silver	mg/kg	1.19E+01	2.08E-06	7.80E-06	1.34E-09	
14	6	Surface	Uranium	mg/kg	5.79E+02	1.01E-04	4.75E-04	6.52E-08	
14	6	Surface	Uranium-234	pCi/g	3.41E+01	1.07E+04		6.88E+00	1.56E+02
14	6	Surface	Uranium-235	pCi/g	2.27E+00	7.09E+02		4.58E-01	1.04E+01
14	6	Surface	Uranium-238	pCi/g	5.08E+01	1.59E+04		1.02E+01	2.32E+02
14	7	Surface	Antimony	mg/kg	7.50E-01	1.31E-07	6.16E-07	8.45E-11	
14	7	Surface	Arsenic	mg/kg	1.13E+01	1.97E-06	5.57E-06	1.27E-09	
14	7	Surface	Cadmium	mg/kg	2.70E+00	4.72E-07	4.43E-08	3.04E-10	
14	7	Surface	Chromium	mg/kg	6.46E+01	1.13E-05	5.30E-05	7.28E-09	
14	7	Surface	Mercury	mg/kg	7.82E+00	1.37E-06	6.42E-06	2.63E-05	
14	7	Surface	Neptunium-237	pCi/g	1.49E+00	4.66E+02		3.00E-01	6.80E+00
14	7	Surface	Nickel	mg/kg	1.22E+03	2.14E-04	8.03E-04	1.38E-07	
14	7	Surface	PCB, Total	mg/kg	7.60E+00	1.33E-06	1.75E-05	1.45E-06	
14	7	Surface	Total PAH	mg/kg	6.31E-02	1.10E-08	1.35E-07	5.26E-10	
14	7	Surface	Uranium	mg/kg	3.33E+02	5.82E-05	2.73E-04	3.75E-08	
14	7	Surface	Uranium-234	pCi/g	1.28E+01	4.00E+03		2.58E+00	5.84E+01
14	7	Surface	Uranium-235	pCi/g	9.60E-01	3.00E+02		1.94E-01	4.38E+00
14	7	Surface	Uranium-238	pCi/g	2.13E+01	6.66E+03		4.29E+00	9.73E+01
14	8	Surface	Antimony	mg/kg	6.10E-01	1.07E-07	5.01E-07	6.88E-11	
14	8	Surface	Arsenic	mg/kg	1.14E+01	1.99E-06	5.61E-06	1.28E-09	
14	8	Surface	Chromium	mg/kg	4.60E+01	8.04E-06	3.78E-05	5.19E-09	
14	8	Surface	Mercury	mg/kg	7.90E+00	1.38E-06	6.49E-06	2.65E-05	
14	8	Surface	Neptunium-237	pCi/g	8.80E-01	2.75E+02		1.77E-01	4.02E+00
14	8	Surface	Nickel	mg/kg	6.73E+02	1.18E-04	4.42E-04	7.58E-08	
14	8	Surface	PCB, Total	mg/kg	5.00E+00	8.74E-07	1.15E-05	9.50E-07	
14	8	Surface	Silver	mg/kg	9.63E+00	1.68E-06	6.33E-06	1.09E-09	
14	8	Surface	Total PAH	mg/kg	6.28E-02	1.10E-08	1.34E-07	5.23E-10	
14	8	Surface	Uranium	mg/kg	3.35E+02	5.86E-05	2.75E-04	3.78E-08	
14	8	Surface	Uranium-235	pCi/g	2.38E-01	7.44E+01		4.80E-02	1.09E+00
14	8	Surface	Uranium-238	pCi/g	5.92E+00	1.85E+03		1.19E+00	2.70E+01
14	9	Surface	Antimony	mg/kg	2.00E+00	3.49E-07	1.64E-06	2.25E-10	
14	9	Surface	Arsenic	mg/kg	1.40E+01	2.45E-06	6.92E-06	1.58E-09	
14	9	Surface	Cadmium	mg/kg	9.40E-01	1.64E-07	1.54E-08	1.06E-10	
14	9	Surface	Cesium-137	pCi/g	4.53E-01	1.42E+02		9.13E-02	2.07E+00
14	9	Surface	Chromium	mg/kg	4.64E+01	8.11E-06	3.81E-05	5.24E-09	
14	9	Surface	Mercury	mg/kg	1.13E+00	1.97E-07	9.28E-07	3.80E-06	
14	9	Surface	Neptunium-237	pCi/g	1.09E+01	3.42E+03		2.20E+00	4.99E+01
14	9	Surface	Nickel	mg/kg	9.43E+02	1.65E-04	6.20E-04	1.06E-07	
14	9	Surface	PCB, Total	mg/kg	6.84E+00	1.20E-06	1.57E-05	1.30E-06	
14	9	Surface	Technetium-99	pCi/g	1.96E+02	6.12E+04		3.95E+01	8.95E+02
14	9	Surface	Total PAH	mg/kg	4.87E-01	8.52E-08	1.04E-06	4.06E-09	
14	9	Surface	Uranium	mg/kg	1.46E+03	2.56E-04	1.20E-03	1.65E-07	
14	9	Surface	Uranium-234	pCi/g	8.32E+02	2.60E+05		1.68E+02	3.80E+03
14	9	Surface	Uranium-235	pCi/g	5.46E+01	1.70E+04		1.10E+01	2.49E+02
14	9	Surface	Uranium-238	pCi/g	1.20E+03	3.75E+05		2.42E+02	5.48E+03
14	10	Surface	Antimony	mg/kg	9.40E-01	1.64E-07	7.72E-07	1.06E-10	
14	10	Surface	Arsenic	mg/kg	1.12E+01	1.96E-06	5.54E-06	1.27E-09	
14	10	Surface	Chromium	mg/kg	4.19E+01	7.31E-06	3.44E-05	4.72E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	10	Surface	Copper	mg/kg	1.41E+02	2.47E-05	1.16E-04	1.59E-08	
14	10	Surface	Iron	mg/kg	2.75E+04	4.80E-03	2.25E-02	3.09E-06	
14	10	Surface	Mercury	mg/kg	2.51E+01	4.38E-06	2.06E-05	8.43E-05	
14	10	Surface	Neptunium-237	pCi/g	2.64E+00	8.25E+02		5.32E-01	1.21E+01
14	10	Surface	Nickel	mg/kg	6.00E+02	1.05E-04	3.94E-04	6.77E-08	
14	10	Surface	PCB, Total	mg/kg	9.38E+00	1.64E-06	2.16E-05	1.78E-06	
14	10	Surface	Total PAH	mg/kg	2.72E-01	4.74E-08	5.80E-07	2.26E-09	
14	10	Surface	Uranium	mg/kg	2.88E+02	5.04E-05	2.37E-04	3.25E-08	
14	10	Surface	Uranium-234	pCi/g	2.42E+01	7.56E+03		4.88E+00	1.11E+02
14	10	Surface	Uranium-235	pCi/g	1.76E+00	5.50E+02		3.55E-01	8.04E+00
14	10	Surface	Uranium-238	pCi/g	4.09E+01	1.28E+04		8.25E+00	1.87E+02
15	1	Surface	Antimony	mg/kg	6.40E-01	1.12E-07	5.26E-07	7.21E-11	
15	1	Surface	Arsenic	mg/kg	1.24E+01	2.16E-06	6.10E-06	1.39E-09	
15	1	Surface	Chromium	mg/kg	5.61E+01	9.80E-06	4.61E-05	6.32E-09	
15	1	Surface	Copper	mg/kg	1.95E+02	3.40E-05	1.60E-04	2.20E-08	
15	1	Surface	Iron	mg/kg	2.95E+04	5.16E-03	2.42E-02	3.33E-06	
15	1	Surface	Nickel	mg/kg	1.33E+02	2.32E-05	8.71E-05	1.49E-08	
15	1	Surface	PCB, Total	mg/kg	7.80E-02	1.36E-08	1.79E-07	1.48E-08	
15	1	Surface	Silver	mg/kg	1.23E+01	2.15E-06	8.07E-06	1.39E-09	
15	1	Surface	Total PAH	mg/kg	1.71E+00	3.00E-07	3.66E-06	1.43E-08	
15	1	Surface	Uranium	mg/kg	3.09E+01	5.40E-06	2.54E-05	3.49E-09	
15	1	Surface	Uranium-238	pCi/g	1.85E+00	5.78E+02		3.73E-01	8.45E+00
15	2	Surface	Antimony	mg/kg	6.60E-01	1.15E-07	5.42E-07	7.44E-11	
15	2	Surface	Arsenic	mg/kg	1.63E+01	2.84E-06	8.01E-06	1.83E-09	
15	2	Surface	Chromium	mg/kg	5.90E+01	1.03E-05	4.85E-05	6.65E-09	
15	2	Surface	Iron	mg/kg	3.89E+04	6.80E-03	3.19E-02	4.38E-06	
15	2	Surface	Mercury	mg/kg	9.33E+00	1.63E-06	7.66E-06	3.14E-05	
15	2	Surface	Neptunium-237	pCi/g	1.35E-01	4.22E+01		2.72E-02	6.16E-01
15	2	Surface	Nickel	mg/kg	1.97E+02	3.45E-05	1.30E-04	2.22E-08	
15	2	Surface	PCB, Total	mg/kg	3.30E-01	5.77E-08	7.59E-07	6.27E-08	
15	2	Surface	Total PAH	mg/kg	2.11E+00	3.68E-07	4.50E-06	1.76E-08	
15	2	Surface	Uranium	mg/kg	1.32E+02	2.30E-05	1.08E-04	1.48E-08	
15	2	Surface	Uranium-234	pCi/g	6.51E+00	2.03E+03		1.31E+00	2.97E+01
15	2	Surface	Uranium-235	pCi/g	3.80E-01	1.19E+02		7.66E-02	1.74E+00
15	2	Surface	Uranium-238	pCi/g	1.21E+01	3.78E+03		2.44E+00	5.53E+01
15	3	Surface	Antimony	mg/kg	2.45E+01	4.28E-06	2.01E-05	2.76E-09	
15	3	Surface	Arsenic	mg/kg	2.60E+01	4.54E-06	1.28E-05	2.93E-09	
15	3	Surface	Beryllium	mg/kg	7.60E-01	1.33E-07	8.74E-08	8.57E-11	
15	3	Surface	Cadmium	mg/kg	1.19E+01	2.08E-06	1.95E-07	1.34E-09	
15	3	Surface	Chromium	mg/kg	7.53E+01	1.32E-05	6.19E-05	8.49E-09	
15	3	Surface	Cobalt	mg/kg	3.41E+01	5.96E-06	2.80E-05	3.84E-09	
15	3	Surface	Copper	mg/kg	1.40E+03	2.44E-04	1.15E-03	1.57E-07	
15	3	Surface	Iron	mg/kg	9.20E+04	1.61E-02	7.56E-02	1.04E-05	
15	3	Surface	Manganese	mg/kg	1.60E+03	2.80E-04	1.05E-03	1.81E-07	
15	3	Surface	Mercury	mg/kg	2.74E+00	4.79E-07	2.25E-06	9.21E-06	
15	3	Surface	Molybdenum	mg/kg	1.70E+01	2.97E-06	1.40E-05	1.92E-09	
15	3	Surface	Neptunium-237	pCi/g	4.10E+00	1.28E+03		8.27E-01	1.87E+01
15	3	Surface	Nickel	mg/kg	7.57E+02	1.32E-04	4.97E-04	8.53E-08	
15	3	Surface	PCB, Total	mg/kg	6.82E+00	1.19E-06	1.57E-05	1.30E-06	
15	3	Surface	Selenium	mg/kg	2.65E+01	4.62E-06	2.17E-05	2.98E-09	
15	3	Surface	Silver	mg/kg	3.20E+00	5.59E-07	2.10E-06	3.61E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	3	Surface	Technetium-99	pCi/g	3.67E+02	1.15E+05		7.40E+01	1.68E+03
15	3	Surface	Thorium-230	pCi/g	7.23E+00	2.26E+03		1.46E+00	3.30E+01
15	3	Surface	Total PAH	mg/kg	1.45E+00	2.54E-07	3.10E-06	1.21E-08	
15	3	Surface	Uranium	mg/kg	2.16E+02	3.77E-05	1.77E-04	2.43E-08	
15	3	Surface	Uranium-234	pCi/g	6.96E+01	2.18E+04		1.40E+01	3.18E+02
15	3	Surface	Uranium-235	pCi/g	4.21E+00	1.32E+03		8.49E-01	1.92E+01
15	3	Surface	Uranium-238	pCi/g	9.67E+01	3.02E+04		1.95E+01	4.42E+02
15	3	Surface	Zinc	mg/kg	8.79E+02	1.54E-04	7.22E-04	9.91E-08	
15	4	Surface	Antimony	mg/kg	7.40E+00	1.29E-06	6.08E-06	8.34E-10	
15	4	Surface	Arsenic	mg/kg	3.47E+01	6.05E-06	1.71E-05	3.91E-09	
15	4	Surface	Cadmium	mg/kg	1.40E+00	2.45E-07	2.30E-08	1.58E-10	
15	4	Surface	Chromium	mg/kg	1.02E+02	1.79E-05	8.39E-05	1.15E-08	
15	4	Surface	Copper	mg/kg	7.05E+02	1.23E-04	5.79E-04	7.95E-08	
15	4	Surface	Iron	mg/kg	7.81E+04	1.36E-02	6.41E-02	8.80E-06	
15	4	Surface	Manganese	mg/kg	1.54E+03	2.68E-04	1.01E-03	1.73E-07	
15	4	Surface	Mercury	mg/kg	1.41E+01	2.46E-06	1.16E-05	4.73E-05	
15	4	Surface	Neptunium-237	pCi/g	8.00E-01	2.50E+02		1.61E-01	3.65E+00
15	4	Surface	Nickel	mg/kg	1.37E+03	2.40E-04	9.03E-04	1.55E-07	
15	4	Surface	PCB, Total	mg/kg	2.67E+01	4.67E-06	6.14E-05	5.08E-06	
15	4	Surface	Silver	mg/kg	1.46E+01	2.55E-06	9.59E-06	1.65E-09	
15	4	Surface	Total PAH	mg/kg	2.44E+00	4.27E-07	5.22E-06	2.04E-08	
15	4	Surface	Uranium	mg/kg	1.57E+02	2.73E-05	1.29E-04	1.76E-08	
15	4	Surface	Uranium-234	pCi/g	1.07E+01	3.34E+03		2.16E+00	4.89E+01
15	4	Surface	Uranium-235	pCi/g	4.30E-01	1.34E+02		8.67E-02	1.96E+00
15	4	Surface	Uranium-238	pCi/g	1.87E+01	5.84E+03		3.77E+00	8.54E+01
15	4	Surface	Zinc	mg/kg	1.19E+03	2.08E-04	9.76E-04	1.34E-07	
15	5	Surface	Antimony	mg/kg	3.10E+00	5.42E-07	2.55E-06	3.49E-10	
15	5	Surface	Arsenic	mg/kg	1.28E+01	2.23E-06	6.30E-06	1.44E-09	
15	5	Surface	Cadmium	mg/kg	1.50E+00	2.62E-07	2.46E-08	1.69E-10	
15	5	Surface	Chromium	mg/kg	4.28E+01	7.48E-06	3.51E-05	4.82E-09	
15	5	Surface	Copper	mg/kg	5.63E+03	9.84E-04	4.63E-03	6.35E-07	
15	5	Surface	Mercury	mg/kg	3.38E-01	5.91E-08	2.78E-07	1.14E-06	
15	5	Surface	Neptunium-237	pCi/g	6.90E-01	2.16E+02		1.39E-01	3.15E+00
15	5	Surface	Nickel	mg/kg	5.10E+02	8.91E-05	3.35E-04	5.75E-08	
15	5	Surface	PCB, Total	mg/kg	2.51E+01	4.39E-06	5.78E-05	4.78E-06	
15	5	Surface	Silver	mg/kg	1.46E+01	2.55E-06	9.59E-06	1.65E-09	
15	5	Surface	Technetium-99	pCi/g	1.07E+02	3.34E+04		2.16E+01	4.89E+02
15	5	Surface	Total PAH	mg/kg	5.11E-01	8.92E-08	1.09E-06	4.26E-09	
15	5	Surface	Uranium	mg/kg	2.13E+02	3.73E-05	1.75E-04	2.41E-08	
15	5	Surface	Uranium-234	pCi/g	5.83E+00	1.82E+03		1.18E+00	2.66E+01
15	5	Surface	Uranium-235	pCi/g	4.60E-01	1.44E+02		9.27E-02	2.10E+00
15	5	Surface	Uranium-238	pCi/g	1.03E+01	3.22E+03		2.08E+00	4.70E+01
15	5	Surface	Zinc	mg/kg	1.52E+03	2.66E-04	1.25E-03	1.72E-07	
15	6	Surface	Antimony	mg/kg	5.10E+00	8.91E-07	4.19E-06	5.75E-10	
15	6	Surface	Arsenic	mg/kg	1.24E+01	2.17E-06	6.12E-06	1.40E-09	
15	6	Surface	Cadmium	mg/kg	1.50E+00	2.62E-07	2.46E-08	1.69E-10	
15	6	Surface	Chromium	mg/kg	5.80E+01	1.01E-05	4.76E-05	6.53E-09	
15	6	Surface	Cobalt	mg/kg	1.62E+01	2.83E-06	1.33E-05	1.83E-09	
15	6	Surface	Copper	mg/kg	4.23E+02	7.39E-05	3.47E-04	4.77E-08	
15	6	Surface	Iron	mg/kg	3.15E+04	5.50E-03	2.59E-02	3.55E-06	
15	6	Surface	Mercury	mg/kg	4.10E-01	7.16E-08	3.37E-07	1.38E-06	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	6	Surface	Neptunium-237	pCi/g	6.40E-01	2.00E+02		1.29E-01	2.92E+00
15	6	Surface	Nickel	mg/kg	3.24E+02	5.66E-05	2.13E-04	3.65E-08	
15	6	Surface	PCB, Total	mg/kg	6.17E+00	1.08E-06	1.42E-05	1.17E-06	
15	6	Surface	Silver	mg/kg	1.09E+01	1.91E-06	7.17E-06	1.23E-09	
15	6	Surface	Total PAH	mg/kg	1.62E+00	2.84E-07	3.47E-06	1.35E-08	
15	6	Surface	Uranium	mg/kg	6.70E+01	1.17E-05	5.51E-05	7.56E-09	
15	6	Surface	Uranium-234	pCi/g	8.74E+00	2.73E+03		1.76E+00	3.99E+01
15	6	Surface	Uranium-235	pCi/g	5.70E-01	1.78E+02		1.15E-01	2.60E+00
15	6	Surface	Uranium-238	pCi/g	1.54E+01	4.81E+03		3.10E+00	7.03E+01
15	7	Surface	Antimony	mg/kg	7.50E-01	1.31E-07	6.16E-07	8.45E-11	
15	7	Surface	Arsenic	mg/kg	1.61E+01	2.81E-06	7.92E-06	1.81E-09	
15	7	Surface	Cadmium	mg/kg	1.00E+00	1.75E-07	1.64E-08	1.13E-10	
15	7	Surface	Chromium	mg/kg	7.87E+01	1.38E-05	6.46E-05	8.87E-09	
15	7	Surface	Copper	mg/kg	7.33E+02	1.28E-04	6.02E-04	8.27E-08	
15	7	Surface	Iron	mg/kg	3.42E+04	5.98E-03	2.81E-02	3.86E-06	
15	7	Surface	Manganese	mg/kg	1.11E+03	1.93E-04	7.26E-04	1.25E-07	
15	7	Surface	Neptunium-237	pCi/g	2.23E-01	6.97E+01		4.50E-02	1.02E+00
15	7	Surface	Nickel	mg/kg	5.59E+02	9.76E-05	3.67E-04	6.30E-08	
15	7	Surface	PCB, Total	mg/kg	2.57E+01	4.49E-06	5.90E-05	4.88E-06	
15	7	Surface	Silver	mg/kg	1.29E+01	2.25E-06	8.45E-06	1.45E-09	
15	7	Surface	Total PAH	mg/kg	1.59E-01	2.78E-08	3.39E-07	1.32E-09	
15	7	Surface	Uranium	mg/kg	5.39E+01	9.42E-06	4.43E-05	6.07E-09	
15	7	Surface	Uranium-234	pCi/g	6.49E+00	2.03E+03		1.31E+00	2.96E+01
15	7	Surface	Uranium-235	pCi/g	4.50E-01	1.41E+02		9.07E-02	2.05E+00
15	7	Surface	Uranium-238	pCi/g	8.05E+00	2.52E+03		1.62E+00	3.68E+01
15	7	Surface	Zinc	mg/kg	5.87E+02	1.03E-04	4.82E-04	6.62E-08	
15	8	Surface	Antimony	mg/kg	5.40E+00	9.44E-07	4.43E-06	6.09E-10	
15	8	Surface	Arsenic	mg/kg	1.17E+01	2.04E-06	5.74E-06	1.31E-09	
15	8	Surface	Chromium	mg/kg	7.74E+01	1.35E-05	6.36E-05	8.72E-09	
15	8	Surface	Copper	mg/kg	1.62E+02	2.83E-05	1.33E-04	1.82E-08	
15	8	Surface	Iron	mg/kg	2.83E+04	4.94E-03	2.32E-02	3.19E-06	
15	8	Surface	Mercury	mg/kg	1.00E+01	1.75E-06	8.25E-06	3.37E-05	
15	8	Surface	Neptunium-237	pCi/g	3.65E-01	1.14E+02		7.36E-02	1.67E+00
15	8	Surface	Nickel	mg/kg	1.82E+02	3.17E-05	1.19E-04	2.05E-08	
15	8	Surface	PCB, Total	mg/kg	4.90E+00	8.56E-07	1.13E-05	9.31E-07	
15	8	Surface	Silver	mg/kg	1.36E+01	2.37E-06	8.90E-06	1.53E-09	
15	8	Surface	Total PAH	mg/kg	3.59E-01	6.27E-08	7.66E-07	2.99E-09	
15	8	Surface	Uranium	mg/kg	4.46E+01	7.78E-06	3.66E-05	5.02E-09	
15	8	Surface	Uranium-235	pCi/g	3.04E-01	9.50E+01		6.13E-02	1.39E+00
15	8	Surface	Uranium-238	pCi/g	6.64E+00	2.08E+03		1.34E+00	3.03E+01
15	9	Surface	Arsenic	mg/kg	1.10E+01	1.93E-06	5.44E-06	1.24E-09	
15	9	Surface	Chromium	mg/kg	9.56E+01	1.67E-05	7.85E-05	1.08E-08	
15	9	Surface	Copper	mg/kg	1.36E+02	2.37E-05	1.12E-04	1.53E-08	
15	9	Surface	Iron	mg/kg	2.76E+04	4.82E-03	2.27E-02	3.11E-06	
15	9	Surface	Neptunium-237	pCi/g	1.28E-01	4.00E+01		2.58E-02	5.84E-01
15	9	Surface	Nickel	mg/kg	1.49E+02	2.60E-05	9.78E-05	1.68E-08	
15	9	Surface	PCB, Total	mg/kg	3.30E-01	5.77E-08	7.59E-07	6.27E-08	
15	9	Surface	Silver	mg/kg	1.54E+01	2.69E-06	1.01E-05	1.74E-09	
15	9	Surface	Total PAH	mg/kg	2.38E-01	4.16E-08	5.09E-07	1.99E-09	
15	9	Surface	Uranium	mg/kg	3.07E+01	5.36E-06	2.52E-05	3.46E-09	
15	9	Surface	Uranium-235	pCi/g	2.42E-01	7.56E+01		4.88E-02	1.11E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	9	Surface	Uranium-238	pCi/g	7.12E+00	2.23E+03		1.44E+00	3.25E+01
15	10	Surface	Chromium	mg/kg	3.55E+01	6.20E-06	2.92E-05	4.00E-09	
15	10	Surface	Mercury	mg/kg	7.84E+00	1.37E-06	6.44E-06	2.63E-05	
15	10	Surface	Nickel	mg/kg	1.46E+02	2.55E-05	9.57E-05	1.64E-08	
15	10	Surface	Silver	mg/kg	1.08E+01	1.89E-06	7.10E-06	1.22E-09	
15	10	Surface	Total PAH	mg/kg	1.28E-01	2.24E-08	2.74E-07	1.07E-09	
15	10	Surface	Uranium	mg/kg	6.47E+01	1.13E-05	5.32E-05	7.30E-09	
16	1	Surface	Cesium-137	pCi/g	1.10E+00	3.44E+02		2.22E-01	5.02E+00
16	1	Surface	PCB, Total	mg/kg	9.60E-02	1.68E-08	2.21E-07	1.82E-08	
16	1	Surface	Total PAH	mg/kg	2.72E-02	4.75E-09	5.81E-08	2.27E-10	
16	2	Surface	Beryllium	mg/kg	8.40E-01	1.47E-07	9.66E-08	9.47E-11	
16	2	Surface	Chromium	mg/kg	2.04E+01	3.56E-06	1.68E-05	2.30E-09	
16	2	Surface	Nickel	mg/kg	2.16E+01	3.77E-06	1.42E-05	2.43E-09	
16	3	Surface	PCB, Total	mg/kg	9.49E-01	1.66E-07	2.18E-06	1.80E-07	
16	4	Surface	Cesium-137	pCi/g	3.66E+01	1.14E+04		7.38E+00	1.67E+02
16	4	Surface	Cobalt-60	pCi/g	8.53E-03	2.67E+00		1.72E-03	3.89E-02
16	4	Surface	Neptunium-237	pCi/g	7.12E+00	2.23E+03		1.44E+00	3.25E+01
16	4	Surface	PCB, Total	mg/kg	3.20E-01	5.59E-08	7.36E-07	6.08E-08	
16	4	Surface	Technetium-99	pCi/g	2.96E+02	9.24E+04		5.96E+01	1.35E+03
16	4	Surface	Thorium-230	pCi/g	5.29E+00	1.65E+03		1.07E+00	2.42E+01
16	4	Surface	Total PAH	mg/kg	2.93E+00	5.12E-07	6.25E-06	2.44E-08	
16	4	Surface	Uranium-234	pCi/g	1.19E+02	3.72E+04		2.40E+01	5.43E+02
16	4	Surface	Uranium-235	pCi/g	8.23E+00	2.57E+03		1.66E+00	3.76E+01
16	4	Surface	Uranium-238	pCi/g	2.70E+02	8.44E+04		5.44E+01	1.23E+03
19	1	Surface	Beryllium	mg/kg	1.10E+00	1.92E-07	1.26E-07	1.24E-10	
19	1	Surface	Cadmium	mg/kg	1.20E+00	2.10E-07	1.97E-08	1.35E-10	
19	1	Surface	Thallium	mg/kg	9.80E-01	1.71E-07	8.05E-07	1.10E-10	
19	1	Surface	Total PAH	mg/kg	5.23E+00	9.13E-07	1.12E-05	4.36E-08	
26	1	Surface	Arsenic	mg/kg	1.29E+01	2.25E-06	6.35E-06	1.45E-09	
26	1	Surface	Beryllium	mg/kg	6.69E-01	1.17E-07	7.69E-08	7.54E-11	
26	1	Surface	Cadmium	mg/kg	1.99E+00	3.48E-07	3.27E-08	2.25E-10	
26	1	Surface	Cesium-137	pCi/g	3.16E+00	9.89E+02		6.38E-01	1.44E+01
26	1	Surface	Chromium	mg/kg	1.90E+01	3.32E-06	1.56E-05	2.14E-09	
26	1	Surface	Cobalt-60	pCi/g	1.93E-03	6.03E-01		3.89E-04	8.81E-03
26	1	Surface	Mercury	mg/kg	1.66E-01	2.90E-08	1.36E-07	5.58E-07	
26	1	Surface	Neptunium-237	pCi/g	2.61E-01	8.16E+01		5.26E-02	1.19E+00
26	1	Surface	Nickel	mg/kg	1.76E+01	3.07E-06	1.16E-05	1.98E-09	
26	1	Surface	PCB, Total	mg/kg	9.33E-01	1.63E-07	2.15E-06	1.77E-07	
26	1	Surface	Plutonium-239/240	pCi/g	4.04E+00	1.26E+03		8.14E-01	1.84E+01
26	1	Surface	Thorium-230	pCi/g	3.82E+00	1.19E+03		7.70E-01	1.74E+01
26	1	Surface	Total PAH	mg/kg	5.00E-02	8.74E-09	1.07E-07	4.17E-10	
26	1	Surface	Uranium	mg/kg	1.29E+02	2.25E-05	1.06E-04	1.45E-08	
26	1	Surface	Uranium-234	pCi/g	4.67E+00	1.46E+03		9.41E-01	2.13E+01
26	1	Surface	Uranium-235	pCi/g	6.41E-01	2.00E+02		1.29E-01	2.93E+00
26	1	Surface	Uranium-238	pCi/g	3.47E+01	1.08E+04		6.99E+00	1.58E+02
26	2	Surface	Aluminum	mg/kg	2.17E+04	3.78E-03	1.78E-02	2.44E-06	
26	2	Surface	Arsenic	mg/kg	4.72E+01	8.25E-06	2.33E-05	5.32E-09	
26	2	Surface	Barium	mg/kg	1.49E+02	2.60E-05	1.22E-04	1.68E-08	
26	2	Surface	Beryllium	mg/kg	9.69E+00	1.69E-06	1.11E-06	1.09E-09	
26	2	Surface	Cadmium	mg/kg	2.38E+00	4.16E-07	3.91E-08	2.68E-10	
26	2	Surface	Cesium-137	pCi/g	5.92E+00	1.85E+03		1.19E+00	2.70E+01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
26	2	Surface	Chromium	mg/kg	3.90E+01	6.81E-06	3.20E-05	4.40E-09	
26	2	Surface	Cobalt	mg/kg	5.20E+01	9.08E-06	4.27E-05	5.86E-09	
26	2	Surface	Copper	mg/kg	1.31E+02	2.29E-05	1.08E-04	1.48E-08	
26	2	Surface	Iron	mg/kg	5.32E+04	9.29E-03	4.37E-02	5.99E-06	
26	2	Surface	Neptunium-237	pCi/g	7.89E-01	2.47E+02		1.59E-01	3.60E+00
26	2	Surface	Nickel	mg/kg	1.13E+02	1.98E-05	7.43E-05	1.27E-08	
26	2	Surface	PCB, Total	mg/kg	2.23E+00	3.89E-07	5.13E-06	4.24E-07	
26	2	Surface	Thallium	mg/kg	1.39E+01	2.43E-06	1.14E-05	1.57E-09	
26	2	Surface	Thorium-230	pCi/g	1.51E+01	4.73E+03		3.05E+00	6.91E+01
26	2	Surface	Uranium	mg/kg	6.46E+02	1.13E-04	5.31E-04	7.28E-08	
26	2	Surface	Uranium-234	pCi/g	1.91E+01	5.96E+03		3.84E+00	8.71E+01
26	2	Surface	Uranium-235	pCi/g	1.71E+00	5.33E+02		3.44E-01	7.79E+00
26	2	Surface	Uranium-238	pCi/g	5.14E+01	1.61E+04		1.04E+01	2.35E+02
26	2	Surface	Vanadium	mg/kg	3.13E+01	5.46E-06	1.33E-05	3.52E-09	
26	3	Surface	Aluminum	mg/kg	9.55E+03	1.67E-03	7.84E-03	1.08E-06	
26	3	Surface	Antimony	mg/kg	1.40E+00	2.45E-07	1.15E-06	1.58E-10	
26	3	Surface	Arsenic	mg/kg	5.09E+01	8.89E-06	2.51E-05	5.74E-09	
26	3	Surface	Barium	mg/kg	4.48E+02	7.82E-05	3.67E-04	5.04E-08	
26	3	Surface	Beryllium	mg/kg	2.54E+00	4.43E-07	2.91E-07	2.86E-10	
26	3	Surface	Cadmium	mg/kg	2.34E+00	4.09E-07	3.84E-08	2.64E-10	
26	3	Surface	Cesium-137	pCi/g	7.48E-01	2.34E+02		1.51E-01	3.42E+00
26	3	Surface	Chromium	mg/kg	3.25E+01	5.69E-06	2.67E-05	3.67E-09	
26	3	Surface	Cobalt	mg/kg	1.21E+01	2.12E-06	9.94E-06	1.37E-09	
26	3	Surface	Mercury	mg/kg	3.87E-01	6.76E-08	3.18E-07	1.30E-06	
26	3	Surface	Naphthalene	mg/kg	1.32E+00	2.31E-07	5.42E-06	4.96E-06	
26	3	Surface	Neptunium-237	pCi/g	7.53E-01	2.35E+02		1.52E-01	3.44E+00
26	3	Surface	Nickel	mg/kg	2.97E+01	5.19E-06	1.95E-05	3.35E-09	
26	3	Surface	PCB, Total	mg/kg	2.52E+00	4.40E-07	5.79E-06	4.79E-07	
26	3	Surface	Silver	mg/kg	2.59E+01	4.53E-06	1.70E-05	2.92E-09	
26	3	Surface	Technetium-99	pCi/g	6.48E+01	2.02E+04		1.31E+01	2.96E+02
26	3	Surface	Thallium	mg/kg	6.00E-01	1.05E-07	4.93E-07	6.76E-11	
26	3	Surface	Thorium-230	pCi/g	7.10E+00	2.22E+03		1.43E+00	3.24E+01
26	3	Surface	Total PAH	mg/kg	1.19E+00	2.08E-07	2.54E-06	9.90E-09	
26	3	Surface	Uranium	mg/kg	9.88E+01	1.73E-05	8.11E-05	1.11E-08	
26	3	Surface	Uranium-234	pCi/g	4.63E+01	1.45E+04		9.34E+00	2.12E+02
26	3	Surface	Uranium-235	pCi/g	1.69E+00	5.28E+02		3.41E-01	7.72E+00
26	3	Surface	Uranium-238	pCi/g	5.19E+01	1.62E+04		1.05E+01	2.37E+02
26	3	Surface	Vanadium	mg/kg	3.77E+01	6.58E-06	1.61E-05	4.25E-09	
26	4	Surface	Aluminum	mg/kg	1.07E+04	1.86E-03	8.76E-03	1.20E-06	
26	4	Surface	Americium-241	pCi/g	1.27E+00	3.98E+02		2.57E-01	5.81E+00
26	4	Surface	Antimony	mg/kg	6.00E-01	1.05E-07	4.93E-07	6.76E-11	
26	4	Surface	Beryllium	mg/kg	6.91E-01	1.21E-07	7.94E-08	7.79E-11	
26	4	Surface	Cadmium	mg/kg	1.99E+00	3.48E-07	3.27E-08	2.24E-10	
26	4	Surface	Cesium-137	pCi/g	6.38E-01	1.99E+02		1.29E-01	2.91E+00
26	4	Surface	Chromium	mg/kg	8.57E+01	1.50E-05	7.04E-05	9.67E-09	
26	4	Surface	Cobalt-60	pCi/g	1.21E-03	3.78E-01		2.44E-04	5.53E-03
26	4	Surface	Copper	mg/kg	1.16E+02	2.02E-05	9.51E-05	1.31E-08	
26	4	Surface	Mercury	mg/kg	3.07E+00	5.37E-07	2.52E-06	1.03E-05	
26	4	Surface	Neptunium-237	pCi/g	1.36E+01	4.24E+03		2.74E+00	6.20E+01
26	4	Surface	Nickel	mg/kg	7.54E+01	1.32E-05	4.96E-05	8.50E-09	
26	4	Surface	PCB, Total	mg/kg	5.54E-01	9.68E-08	1.27E-06	1.05E-07	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
26	4	Surface	Plutonium-239/240	pCi/g	5.00E+00	1.56E+03		1.01E+00	2.28E+01
26	4	Surface	Technetium-99	pCi/g	5.97E+02	1.87E+05		1.20E+02	2.73E+03
26	4	Surface	Thorium-230	pCi/g	3.26E+01	1.02E+04		6.58E+00	1.49E+02
26	4	Surface	Total PAH	mg/kg	2.83E-02	4.95E-09	6.05E-08	2.36E-10	
26	4	Surface	Uranium	mg/kg	9.75E+02	1.70E-04	8.01E-04	1.10E-07	
26	4	Surface	Uranium-234	pCi/g	1.54E+02	4.83E+04		3.11E+01	7.05E+02
26	4	Surface	Uranium-235	pCi/g	1.08E+01	3.38E+03		2.18E+00	4.93E+01
26	4	Surface	Uranium-238	pCi/g					
47	1	Surface	Aluminum	mg/kg	1.50E+04	2.62E-03	1.23E-02	1.69E-06	
47	1	Surface	Antimony	mg/kg	9.00E-01	1.57E-07	7.39E-07	1.01E-10	
47	1	Surface	Arsenic	mg/kg	4.52E+01	7.90E-06	2.23E-05	5.10E-09	
47	1	Surface	Beryllium	mg/kg	7.00E-01	1.22E-07	8.05E-08	7.89E-11	
47	1	Surface	Cadmium	mg/kg	4.25E+00	7.43E-07	6.98E-08	4.79E-10	
47	1	Surface	Chromium	mg/kg	5.39E+01	9.42E-06	4.43E-05	6.08E-09	
47	1	Surface	Cobalt	mg/kg	1.43E+01	2.50E-06	1.17E-05	1.61E-09	
47	1	Surface	Iron	mg/kg	2.95E+04	5.15E-03	2.42E-02	3.33E-06	
47	1	Surface	Naphthalene	mg/kg	1.90E+00	3.32E-07	7.80E-06	7.14E-06	
47	1	Surface	Neptunium-237	pCi/g	1.15E-01	3.59E+01		2.32E-02	5.25E-01
47	1	Surface	Nickel	mg/kg	8.25E+01	1.44E-05	5.42E-05	9.30E-09	
47	1	Surface	PCB, Total	mg/kg	9.60E-01	1.68E-07	2.21E-06	1.82E-07	
47	1	Surface	Plutonium-239/240	pCi/g	4.11E+00	1.28E+03		8.29E-01	1.88E+01
47	1	Surface	Pyrene	mg/kg	1.11E+02	1.93E-05	2.36E-04	8.19E-06	
47	1	Surface	Thorium-230	pCi/g	4.11E+01	1.28E+04		8.29E+00	1.88E+02
47	1	Surface	Total PAH	mg/kg	5.41E+01	9.45E-06	1.15E-04	4.51E-07	
47	1	Surface	Uranium	mg/kg	3.23E+01	5.65E-06	2.65E-05	3.64E-09	
47	1	Surface	Uranium-234	pCi/g	6.85E+00	2.14E+03		1.38E+00	3.13E+01
47	1	Surface	Uranium-235	pCi/g	5.00E-01	1.56E+02		1.01E-01	2.28E+00
47	1	Surface	Uranium-238	pCi/g	7.93E+00	2.48E+03		1.60E+00	3.62E+01
74	1	Surface	PCB, Total	mg/kg	2.97E+00	5.20E-07	6.84E-06	5.65E-07	
74	1	Surface	Total PAH	mg/kg	3.16E+00	5.52E-07	6.75E-06	2.64E-08	
74	1	Surface	Uranium-234	pCi/g	7.55E+00	2.36E+03		1.52E+00	3.45E+01
74	1	Surface	Uranium-238	pCi/g	3.85E+01	1.20E+04		7.76E+00	1.76E+02
75	1	Surface	Cadmium	mg/kg	1.10E+00	1.92E-07	1.81E-08	1.24E-10	
75	1	Surface	Chromium	mg/kg	7.17E+01	1.25E-05	5.89E-05	8.08E-09	
75	1	Surface	Copper	mg/kg	3.15E+02	5.50E-05	2.59E-04	3.55E-08	
75	1	Surface	Nickel	mg/kg	8.87E+01	1.55E-05	5.83E-05	1.00E-08	
75	1	Surface	PCB, Total	mg/kg	2.30E-01	4.02E-08	5.29E-07	4.37E-08	
75	1	Surface	Total PAH	mg/kg	2.21E-01	3.87E-08	4.73E-07	1.85E-09	
76	1	Surface	Barium	mg/kg	2.69E+02	4.70E-05	2.21E-04	3.03E-08	
76	1	Surface	PCB, Total	mg/kg	2.60E-01	4.54E-08	5.98E-07	4.94E-08	
76	1	Surface	Total PAH	mg/kg	1.76E+00	3.07E-07	3.75E-06	1.47E-08	
76	1	Surface	Uranium-238	pCi/g	1.45E+00	4.53E+02		2.92E-01	6.62E+00
78	1	Surface	Cadmium	mg/kg	2.36E+00	4.12E-07	3.88E-08	2.66E-10	
78	1	Surface	Chromium	mg/kg	3.75E+01	6.55E-06	3.08E-05	4.23E-09	
78	1	Surface	Cobalt-60	pCi/g	5.91E-03	1.85E+00		1.19E-03	2.70E-02
78	1	Surface	Naphthalene	mg/kg	1.60E+01	2.80E-06	6.57E-05	6.01E-05	
78	1	Surface	Nickel	mg/kg	2.15E+01	3.76E-06	1.41E-05	2.42E-09	
78	1	Surface	PCB, Total	mg/kg	1.20E+01	2.10E-06	2.76E-05	2.28E-06	
78	1	Surface	Total PAH	mg/kg	3.91E+01	6.84E-06	8.35E-05	3.26E-07	
78	1	Surface	Uranium-235	pCi/g	2.64E-01	8.25E+01		5.32E-02	1.21E+00
78	1	Surface	Uranium-238	pCi/g	5.29E+00	1.65E+03		1.07E+00	2.42E+01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
80	1	Surface	Americium-241	pCi/g	6.40E+00	2.00E+03		1.29E+00	2.92E+01
80	1	Surface	Antimony	mg/kg	9.10E-01	1.59E-07	7.47E-07	1.03E-10	
80	1	Surface	Beryllium	mg/kg	7.80E-01	1.36E-07	8.97E-08	8.79E-11	
80	1	Surface	Chromium	mg/kg	1.65E+02	2.88E-05	1.36E-04	1.86E-08	
80	1	Surface	Mercury	mg/kg	4.50E-01	7.86E-08	3.70E-07	1.51E-06	
80	1	Surface	Neptunium-237	pCi/g	5.05E-01	1.58E+02		1.02E-01	2.31E+00
80	1	Surface	PCB, Total	mg/kg	1.46E+01	2.55E-06	3.36E-05	2.78E-06	
80	1	Surface	Thorium-230	pCi/g	4.40E+00	1.38E+03		8.87E-01	2.01E+01
80	1	Surface	Total PAH	mg/kg	1.42E-01	2.48E-08	3.02E-07	1.18E-09	
80	1	Surface	Uranium	mg/kg	5.72E+03	1.00E-03	4.70E-03	6.45E-07	
80	1	Surface	Uranium-234	pCi/g	2.29E+02	7.16E+04		4.62E+01	1.05E+03
80	1	Surface	Uranium-235	pCi/g	3.00E+01	9.38E+03		6.05E+00	1.37E+02
80	1	Surface	Uranium-238	pCi/g	1.92E+03	6.00E+05		3.87E+02	8.77E+03
81	1	Surface	Aluminum	mg/kg	9.57E+03	1.67E-03	7.86E-03	1.08E-06	
81	1	Surface	Arsenic	mg/kg	1.03E+01	1.79E-06	5.05E-06	1.16E-09	
81	1	Surface	Beryllium	mg/kg	7.57E-01	1.32E-07	8.70E-08	8.53E-11	
81	1	Surface	Chromium	mg/kg	8.62E+01	1.51E-05	7.08E-05	9.72E-09	
81	1	Surface	Mercury	mg/kg	8.33E+00	1.46E-06	6.84E-06	2.80E-05	
81	1	Surface	Nickel	mg/kg	7.29E+01	1.27E-05	4.79E-05	8.21E-09	
81	1	Surface	PCB, Total	mg/kg	1.60E+02	2.79E-05	3.67E-04	3.04E-05	
81	1	Surface	Silver	mg/kg	2.70E+00	4.72E-07	1.77E-06	3.04E-10	
81	1	Surface	Total PAH	mg/kg	5.53E-01	9.66E-08	1.18E-06	4.61E-09	
81	1	Surface	Uranium	mg/kg	6.50E+03	1.14E-03	5.34E-03	7.33E-07	
81	1	Surface	Uranium-238	pCi/g	2.29E+00	7.14E+02		4.61E-01	1.04E+01
99	1	Surface	Chromium	mg/kg	5.51E+01	9.63E-06	4.52E-05	6.21E-09	
99	1	Surface	Cobalt-60	pCi/g	1.19E-02	3.72E+00		2.40E-03	5.43E-02
99	1	Surface	Mercury	mg/kg	9.53E+00	1.67E-06	7.83E-06	3.20E-05	
99	1	Surface	Nickel	mg/kg	7.02E+01	1.23E-05	4.61E-05	7.91E-09	
99	1	Surface	Silver	mg/kg	1.03E+01	1.80E-06	6.77E-06	1.16E-09	
99	1	Surface	Uranium-238	pCi/g	9.45E-01	2.95E+02		1.91E-01	4.32E+00
138	1	Surface	Antimony	mg/kg	5.39E+00	9.42E-07	4.43E-06	6.08E-10	
138	1	Surface	Arsenic	mg/kg	1.06E+01	1.86E-06	5.23E-06	1.20E-09	
138	1	Surface	Cadmium	mg/kg	5.42E+00	9.47E-07	8.90E-08	6.11E-10	
138	1	Surface	Chromium	mg/kg	5.39E+01	9.41E-06	4.42E-05	6.07E-09	
138	1	Surface	Mercury	mg/kg	1.30E+01	2.27E-06	1.07E-05	4.36E-05	
138	1	Surface	Nickel	mg/kg	7.04E+01	1.23E-05	4.62E-05	7.93E-09	
138	1	Surface	PCB, Total	mg/kg	5.00E-01	8.74E-08	1.15E-06	9.50E-08	
138	1	Surface	Silver	mg/kg	1.01E+01	1.76E-06	6.63E-06	1.14E-09	
138	1	Surface	Total PAH	mg/kg	9.74E-02	1.70E-08	2.08E-07	8.12E-10	
138	2	Surface	Nickel	mg/kg	7.99E+01	1.40E-05	5.25E-05	9.00E-09	
138	2	Surface	PCB, Total	mg/kg	9.20E-02	1.61E-08	2.12E-07	1.75E-08	
138	2	Surface	Silver	mg/kg	1.04E+01	1.82E-06	6.86E-06	1.18E-09	
138	2	Surface	Total PAH	mg/kg	3.84E-02	6.71E-09	8.20E-08	3.20E-10	
153	1	Surface	PCB, Total	mg/kg	5.09E-01	8.89E-08	1.17E-06	9.67E-08	
153	1	Surface	Total PAH	mg/kg	8.69E-02	1.52E-08	1.86E-07	7.24E-10	
154	1	Surface	Arsenic	mg/kg	1.52E+01	2.65E-06	7.47E-06	1.71E-09	
154	1	Surface	Chromium	mg/kg	4.28E+01	7.47E-06	3.51E-05	4.82E-09	
154	1	Surface	Nickel	mg/kg	9.89E+01	1.73E-05	6.50E-05	1.11E-08	
154	1	Surface	PCB, Total	mg/kg	3.20E+00	5.59E-07	7.36E-06	6.08E-07	
154	1	Surface	Total PAH	mg/kg	1.04E+00	1.82E-07	2.22E-06	8.67E-09	
154	1	Surface	Uranium	mg/kg	3.82E+01	6.67E-06	3.14E-05	4.30E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
154	1	Surface	Uranium-238	pCi/g	3.06E+00	9.56E+02		6.17E-01	1.40E+01
154	2	Surface	PCB, Total	mg/kg	4.00E-01	6.99E-08	9.20E-07	7.60E-08	
155	1	Surface	Antimony	mg/kg	3.65E+00	6.38E-07	3.00E-06	4.12E-10	
155	1	Surface	Chromium	mg/kg	3.47E+01	6.06E-06	2.85E-05	3.91E-09	
155	1	Surface	Neptunium-237	pCi/g	1.03E-01	3.22E+01		2.08E-02	4.70E-01
155	1	Surface	Nickel	mg/kg	7.65E+01	1.34E-05	5.03E-05	8.63E-09	
155	1	Surface	PCB, Total	mg/kg	9.20E+00	1.61E-06	2.11E-05	1.75E-06	
155	1	Surface	Silver	mg/kg	1.11E+01	1.94E-06	7.28E-06	1.25E-09	
156	1	Surface	Chromium	mg/kg	4.90E+01	8.57E-06	4.03E-05	5.53E-09	
156	1	Surface	Manganese	mg/kg	2.83E+03	4.95E-04	1.86E-03	3.19E-07	
156	1	Surface	Mercury	mg/kg	9.87E+00	1.72E-06	8.11E-06	3.32E-05	
156	1	Surface	Nickel	mg/kg	6.16E+01	1.08E-05	4.05E-05	6.95E-09	
156	1	Surface	PCB, Total	mg/kg	3.00E-01	5.24E-08	6.90E-07	5.70E-08	
156	1	Surface	Total PAH	mg/kg	8.26E-02	1.44E-08	1.76E-07	6.89E-10	
156	1	Surface	Uranium	mg/kg	2.32E+01	4.05E-06	1.90E-05	2.61E-09	
156	1	Surface	Uranium-238	pCi/g	2.19E+00	6.84E+02		4.42E-01	1.00E+01
158	1	Surface	Antimony	mg/kg	5.23E-01	9.14E-08	4.29E-07	5.90E-11	
158	1	Surface	Arsenic	mg/kg	1.01E+01	1.77E-06	4.99E-06	1.14E-09	
158	1	Surface	Barium	mg/kg	2.19E+02	3.82E-05	1.80E-04	2.47E-08	
158	1	Surface	Chromium	mg/kg	6.07E+01	1.06E-05	4.99E-05	6.85E-09	
158	1	Surface	Cobalt	mg/kg	1.62E+01	2.83E-06	1.33E-05	1.83E-09	
158	1	Surface	Manganese	mg/kg	9.91E+02	1.73E-04	6.51E-04	1.12E-07	
158	1	Surface	Mercury	mg/kg	1.05E+01	1.83E-06	8.59E-06	3.51E-05	
158	1	Surface	Nickel	mg/kg	7.28E+01	1.27E-05	4.78E-05	8.21E-09	
158	1	Surface	Thallium	mg/kg	3.12E-01	5.45E-08	2.56E-07	3.52E-11	
158	1	Surface	Total PAH	mg/kg	3.69E-01	6.45E-08	7.88E-07	3.08E-09	
158	1	Surface	Uranium	mg/kg	2.03E+01	3.55E-06	1.67E-05	2.29E-09	
158	1	Surface	Uranium-235	pCi/g	1.63E-01	5.09E+01		3.29E-02	7.44E-01
158	1	Surface	Uranium-238	pCi/g	3.79E+00	1.18E+03		7.64E-01	1.73E+01
160	1	Surface	Antimony	mg/kg	6.80E-01	1.19E-07	5.58E-07	7.67E-11	
160	1	Surface	Total PAH	mg/kg	5.29E-02	9.24E-09	1.13E-07	4.41E-10	
163	1	Surface	Chromium	mg/kg	4.94E+01	8.64E-06	4.06E-05	5.57E-09	
163	1	Surface	Total PAH	mg/kg	1.63E-01	2.85E-08	3.48E-07	1.36E-09	
165	1	Surface	Antimony	mg/kg	2.20E+00	3.84E-07	1.81E-06	2.48E-10	
165	1	Surface	Arsenic	mg/kg	6.35E+01	1.11E-05	3.13E-05	7.16E-09	
165	1	Surface	Barium	mg/kg	5.84E+02	1.02E-04	4.80E-04	6.59E-08	
165	1	Surface	Beryllium	mg/kg	6.82E-01	1.19E-07	7.84E-08	7.69E-11	
165	1	Surface	Cesium-137	pCi/g	3.47E+00	1.08E+03		7.00E-01	1.58E+01
165	1	Surface	Chromium	mg/kg	3.74E+01	6.53E-06	3.07E-05	4.21E-09	
165	1	Surface	Mercury	mg/kg	3.78E-01	6.60E-08	3.10E-07	1.27E-06	
165	1	Surface	Naphthalene	mg/kg	1.61E+00	2.81E-07	6.61E-06	6.05E-06	
165	1	Surface	Neptunium-237	pCi/g	4.26E-01	1.33E+02		8.59E-02	1.95E+00
165	1	Surface	Nickel	mg/kg	3.47E+01	6.06E-06	2.28E-05	3.91E-09	
165	1	Surface	PCB, Total	mg/kg	8.27E+00	1.44E-06	1.90E-05	1.57E-06	
165	1	Surface	Plutonium-239/240	pCi/g	2.81E+00	8.77E+02		5.66E-01	1.28E+01
165	1	Surface	Silver	mg/kg	3.09E+01	5.40E-06	2.03E-05	3.49E-09	
165	1	Surface	Thorium-230	pCi/g	6.02E+00	1.88E+03		1.21E+00	2.75E+01
165	1	Surface	Total PAH	mg/kg	1.87E+00	3.26E-07	3.99E-06	1.56E-08	
165	1	Surface	Uranium	mg/kg	1.08E+02	1.88E-05	8.83E-05	1.21E-08	
165	1	Surface	Uranium-234	pCi/g	5.76E+01	1.80E+04		1.16E+01	2.63E+02
165	1	Surface	Uranium-235	pCi/g	2.05E+00	6.39E+02		4.12E-01	9.34E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
165	1	Surface	Uranium-238	pCi/g	6.41E+01	2.00E+04		1.29E+01	2.93E+02
169	1	Surface	Aluminum	mg/kg	1.42E+04	2.48E-03	1.17E-02	1.60E-06	
169	1	Surface	Antimony	mg/kg	1.30E+00	2.27E-07	1.07E-06	1.47E-10	
169	1	Surface	Arsenic	mg/kg	2.03E+01	3.55E-06	1.00E-05	2.29E-09	
169	1	Surface	Beryllium	mg/kg	8.00E-01	1.40E-07	9.20E-08	9.02E-11	
169	1	Surface	Chromium	mg/kg	2.15E+02	3.76E-05	1.77E-04	2.42E-08	
169	1	Surface	Copper	mg/kg	3.74E+02	6.54E-05	3.07E-04	4.22E-08	
169	1	Surface	Iron	mg/kg	4.16E+04	7.26E-03	3.41E-02	4.69E-06	
169	1	Surface	Mercury	mg/kg	7.87E+00	1.38E-06	6.46E-06	2.64E-05	
169	1	Surface	Nickel	mg/kg	5.49E+02	9.59E-05	3.60E-04	6.18E-08	
169	1	Surface	PCB, Total	mg/kg	1.00E+01	1.75E-06	2.30E-05	1.90E-06	
169	1	Surface	Thallium	mg/kg	4.60E-01	8.04E-08	3.78E-07	5.19E-11	
169	1	Surface	Total PAH	mg/kg	4.59E+00	8.01E-07	9.79E-06	3.82E-08	
169	1	Surface	Uranium	mg/kg	5.03E+01	8.79E-06	4.13E-05	5.67E-09	
169	1	Surface	Uranium-234	pCi/g	6.55E+00	2.05E+03		1.32E+00	2.99E+01
169	1	Surface	Uranium-235	pCi/g	4.60E-01	1.44E+02		9.27E-02	2.10E+00
169	1	Surface	Uranium-238	pCi/g	8.12E+00	2.54E+03		1.64E+00	3.71E+01
170	1	Surface	Neptunium-237	pCi/g	1.15E-01	3.59E+01		2.32E-02	5.25E-01
170	1	Surface	Uranium-238	pCi/g	1.53E+00	4.78E+02		3.08E-01	6.99E+00
176	1	Surface	Arsenic	mg/kg	4.86E+01	8.48E-06	2.39E-05	5.47E-09	
176	1	Surface	Chromium	mg/kg	4.27E+01	7.47E-06	3.51E-05	4.82E-09	
176	1	Surface	Nickel	mg/kg	1.07E+02	1.87E-05	7.04E-05	1.21E-08	
176	1	Surface	Uranium	mg/kg	2.21E+01	3.86E-06	1.81E-05	2.49E-09	
180	1	Surface	Antimony	mg/kg	5.80E-01	1.01E-07	4.76E-07	6.54E-11	
180	1	Surface	Arsenic	mg/kg	7.48E+01	1.31E-05	3.69E-05	8.43E-09	
180	1	Surface	Chromium	mg/kg	5.54E+01	9.69E-06	4.55E-05	6.25E-09	
180	1	Surface	Mercury	mg/kg	8.28E+00	1.45E-06	6.80E-06	2.78E-05	
180	1	Surface	Nickel	mg/kg	8.77E+01	1.53E-05	5.76E-05	9.88E-09	
180	2	Surface	Antimony	mg/kg	4.58E-01	8.00E-08	3.76E-07	5.16E-11	
180	2	Surface	Arsenic	mg/kg	1.27E+01	2.21E-06	6.23E-06	1.43E-09	
180	2	Surface	Chromium	mg/kg	4.46E+01	7.80E-06	3.67E-05	5.03E-09	
180	2	Surface	Nickel	mg/kg	8.42E+01	1.47E-05	5.53E-05	9.49E-09	
180	2	Surface	Total PAH	mg/kg	9.19E-02	1.60E-08	1.96E-07	7.66E-10	
180	3	Surface	Arsenic	mg/kg	1.34E+01	2.33E-06	6.58E-06	1.50E-09	
180	3	Surface	Chromium	mg/kg	4.69E+01	8.20E-06	3.85E-05	5.29E-09	
180	3	Surface	Nickel	mg/kg	6.77E+01	1.18E-05	4.45E-05	7.63E-09	
180	3	Surface	Silver	mg/kg	1.14E+01	1.99E-06	7.49E-06	1.29E-09	
180	4	Surface	Arsenic	mg/kg	1.15E+01	2.01E-06	5.68E-06	1.30E-09	
180	4	Surface	Barium	mg/kg	2.13E+02	3.72E-05	1.75E-04	2.40E-08	
180	4	Surface	Beryllium	mg/kg	1.60E+00	2.80E-07	1.84E-07	1.80E-10	
180	4	Surface	Chromium	mg/kg	6.00E+01	1.05E-05	4.93E-05	6.76E-09	
180	4	Surface	Iron	mg/kg	1.54E+04	2.69E-03	1.26E-02	1.73E-06	
180	4	Surface	Manganese	mg/kg	7.09E+02	1.24E-04	4.66E-04	7.99E-08	
180	4	Surface	Nickel	mg/kg	6.46E+01	1.13E-05	4.24E-05	7.28E-09	
180	4	Surface	Silver	mg/kg	9.68E+00	1.69E-06	6.36E-06	1.09E-09	
180	4	Surface	Total PAH	mg/kg	2.15E-02	3.76E-09	4.59E-08	1.79E-10	
180	4	Surface	Vanadium	mg/kg	4.85E+01	8.47E-06	2.07E-05	5.47E-09	
181	1	Surface	Chromium	mg/kg	2.29E+01	3.99E-06	1.88E-05	2.58E-09	
181	1	Surface	Thallium	mg/kg	3.50E+00	6.12E-07	2.87E-06	3.95E-10	
181	1	Surface	Total PAH	mg/kg	3.43E-02	5.99E-09	7.32E-08	2.86E-10	
194	1	Surface	Antimony	mg/kg	1.50E+00	2.62E-07	1.23E-06	1.69E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	1	Surface	Chromium	mg/kg	3.87E+01	6.76E-06	3.18E-05	4.36E-09	
194	1	Surface	Mercury	mg/kg	6.71E+00	1.17E-06	5.51E-06	2.25E-05	
194	1	Surface	Nickel	mg/kg	5.84E+01	1.02E-05	3.84E-05	6.59E-09	
194	1	Surface	Silver	mg/kg	1.09E+01	1.91E-06	7.18E-06	1.23E-09	
194	2	Surface	Chromium	mg/kg	5.96E+01	1.04E-05	4.89E-05	6.72E-09	
194	2	Surface	Silver	mg/kg	1.31E+01	2.29E-06	8.63E-06	1.48E-09	
194	2	Surface	Uranium	mg/kg	2.28E+01	3.98E-06	1.87E-05	2.57E-09	
194	2	Surface	Uranium-238	pCi/g	1.42E+00	4.44E+02		2.86E-01	6.48E+00
194	3	Surface	Antimony	mg/kg	6.90E-01	1.21E-07	5.67E-07	7.78E-11	
194	3	Surface	Arsenic	mg/kg	1.46E+01	2.56E-06	7.21E-06	1.65E-09	
194	3	Surface	Chromium	mg/kg	3.90E+01	6.81E-06	3.20E-05	4.39E-09	
194	3	Surface	Nickel	mg/kg	6.40E+01	1.12E-05	4.21E-05	7.22E-09	
194	3	Surface	Total PAH	mg/kg	3.93E-02	6.87E-09	8.39E-08	3.28E-10	
194	3	Surface	Uranium-238	pCi/g	1.28E+00	4.01E+02		2.59E-01	5.86E+00
194	4	Surface	Chromium	mg/kg	4.84E+01	8.46E-06	3.98E-05	5.46E-09	
194	4	Surface	Mercury	mg/kg	8.92E+00	1.56E-06	7.33E-06	3.00E-05	
194	4	Surface	Nickel	mg/kg	6.91E+01	1.21E-05	4.54E-05	7.78E-09	
194	4	Surface	Silver	mg/kg	1.18E+01	2.06E-06	7.74E-06	1.33E-09	
194	4	Surface	Total PAH	mg/kg	7.30E-02	1.27E-08	1.56E-07	6.08E-10	
194	4	Surface	Uranium-238	pCi/g	1.73E+00	5.41E+02		3.49E-01	7.90E+00
194	5	Surface	Chromium	mg/kg	4.58E+01	8.00E-06	3.76E-05	5.16E-09	
194	5	Surface	Mercury	mg/kg	8.69E+00	1.52E-06	7.14E-06	2.92E-05	
194	5	Surface	Nickel	mg/kg	7.54E+01	1.32E-05	4.96E-05	8.50E-09	
194	5	Surface	Silver	mg/kg	1.25E+01	2.18E-06	8.18E-06	1.40E-09	
194	5	Surface	Total PAH	mg/kg	2.37E-02	4.14E-09	5.06E-08	1.98E-10	
194	5	Surface	Uranium-238	pCi/g	1.38E+00	4.31E+02		2.78E-01	6.30E+00
194	6	Surface	Chromium	mg/kg	3.70E+01	6.47E-06	3.04E-05	4.17E-09	
194	6	Surface	Manganese	mg/kg	1.08E+03	1.89E-04	7.10E-04	1.22E-07	
194	6	Surface	Nickel	mg/kg	8.06E+01	1.41E-05	5.30E-05	9.09E-09	
194	6	Surface	Silver	mg/kg	9.89E+00	1.73E-06	6.50E-06	1.11E-09	
194	6	Surface	Uranium-238	pCi/g	1.32E+00	4.13E+02		2.66E-01	6.03E+00
194	7	Surface	Chromium	mg/kg	5.32E+01	9.30E-06	4.37E-05	6.00E-09	
194	7	Surface	Nickel	mg/kg	7.71E+01	1.35E-05	5.07E-05	8.70E-09	
194	7	Surface	Silver	mg/kg	1.25E+01	2.18E-06	8.21E-06	1.41E-09	
194	8	Surface	Chromium	mg/kg	5.36E+01	9.36E-06	4.40E-05	6.04E-09	
194	8	Surface	Manganese	mg/kg	8.00E+02	1.40E-04	5.26E-04	9.02E-08	
194	8	Surface	Total PAH	mg/kg	4.85E-01	8.47E-08	1.04E-06	4.04E-09	
194	8	Surface	Uranium-238	pCi/g	1.39E+00	4.34E+02		2.80E-01	6.35E+00
194	9	Surface	Arsenic	mg/kg	1.14E+01	2.00E-06	5.63E-06	1.29E-09	
194	9	Surface	Chromium	mg/kg	5.17E+01	9.02E-06	4.24E-05	5.82E-09	
194	10	Surface	Arsenic	mg/kg	1.22E+01	2.12E-06	5.99E-06	1.37E-09	
194	10	Surface	Cesium-137	pCi/g	5.81E-01	1.82E+02		1.17E-01	2.65E+00
194	10	Surface	Chromium	mg/kg	3.63E+01	6.34E-06	2.98E-05	4.09E-09	
194	10	Surface	Nickel	mg/kg	7.60E+01	1.33E-05	4.99E-05	8.57E-09	
194	10	Surface	Total PAH	mg/kg	2.57E-01	4.49E-08	5.49E-07	2.14E-09	
194	10	Surface	Uranium-238	pCi/g	1.49E+00	4.66E+02		3.00E-01	6.80E+00
194	11	Surface	Chromium	mg/kg	3.27E+01	5.71E-06	2.68E-05	3.68E-09	
194	11	Surface	Mercury	mg/kg	8.09E+00	1.41E-06	6.64E-06	2.72E-05	
194	11	Surface	Nickel	mg/kg	1.01E+02	1.76E-05	6.61E-05	1.13E-08	
194	11	Surface	PCB, Total	mg/kg	8.40E-02	1.47E-08	1.93E-07	1.60E-08	
194	11	Surface	Silver	mg/kg	1.33E+01	2.32E-06	8.73E-06	1.50E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	11	Surface	Total PAH	mg/kg	7.95E-02	1.39E-08	1.70E-07	6.63E-10	
194	12	Surface	Chromium	mg/kg	6.34E+01	1.11E-05	5.20E-05	7.14E-09	
194	12	Surface	Nickel	mg/kg	7.86E+01	1.37E-05	5.16E-05	8.86E-09	
194	12	Surface	Silver	mg/kg	1.20E+01	2.09E-06	7.87E-06	1.35E-09	
194	12	Surface	Total PAH	mg/kg	8.91E-01	1.56E-07	1.90E-06	7.43E-09	
194	13	Surface	Chromium	mg/kg	4.77E+01	8.33E-06	3.91E-05	5.37E-09	
194	13	Surface	Nickel	mg/kg	6.03E+01	1.05E-05	3.96E-05	6.80E-09	
194	13	Surface	Total PAH	mg/kg	9.13E-02	1.60E-08	1.95E-07	7.61E-10	
194	14	Surface	Chromium	mg/kg	5.21E+01	9.11E-06	4.28E-05	5.88E-09	
194	14	Surface	Mercury	mg/kg	8.14E+00	1.42E-06	6.68E-06	2.74E-05	
194	15	Surface	Chromium	mg/kg	5.33E+01	9.32E-06	4.38E-05	6.01E-09	
194	15	Surface	Silver	mg/kg	1.03E+01	1.80E-06	6.77E-06	1.16E-09	
194	16	Surface	Antimony	mg/kg	7.40E-01	1.29E-07	6.08E-07	8.34E-11	
194	16	Surface	Arsenic	mg/kg	1.15E+01	2.01E-06	5.68E-06	1.30E-09	
194	16	Surface	Beryllium	mg/kg	8.70E-01	1.52E-07	1.00E-07	9.81E-11	
194	16	Surface	Chromium	mg/kg	5.32E+01	9.30E-06	4.37E-05	6.00E-09	
194	16	Surface	Nickel	mg/kg	7.20E+01	1.26E-05	4.73E-05	8.12E-09	
194	16	Surface	Thallium	mg/kg	6.30E-01	1.10E-07	5.17E-07	7.10E-11	
194	16	Surface	Vanadium	mg/kg	4.11E+01	7.18E-06	1.76E-05	4.63E-09	
194	17	Surface	Arsenic	mg/kg	1.16E+01	2.02E-06	5.69E-06	1.30E-09	
194	17	Surface	Cadmium	mg/kg	1.10E+00	1.92E-07	1.81E-08	1.24E-10	
194	17	Surface	Chromium	mg/kg	4.65E+01	8.12E-06	3.82E-05	5.24E-09	
194	17	Surface	Total PAH	mg/kg	1.59E-01	2.77E-08	3.39E-07	1.32E-09	
194	18	Surface	Arsenic	mg/kg	1.06E+01	1.85E-06	5.21E-06	1.19E-09	
194	18	Surface	Beryllium	mg/kg	7.40E-01	1.29E-07	8.51E-08	8.34E-11	
194	18	Surface	Chromium	mg/kg	6.85E+01	1.20E-05	5.62E-05	7.72E-09	
194	18	Surface	Nickel	mg/kg	5.78E+01	1.01E-05	3.80E-05	6.51E-09	
194	19	Surface	Arsenic	mg/kg	1.07E+01	1.87E-06	5.27E-06	1.21E-09	
194	19	Surface	Chromium	mg/kg	4.84E+01	8.45E-06	3.97E-05	5.45E-09	
194	19	Surface	Nickel	mg/kg	5.84E+01	1.02E-05	3.84E-05	6.58E-09	
194	20	Surface	Arsenic	mg/kg	1.18E+01	2.07E-06	5.83E-06	1.33E-09	
194	20	Surface	Barium	mg/kg	3.26E+02	5.70E-05	2.68E-04	3.67E-08	
194	20	Surface	Beryllium	mg/kg	1.10E+00	1.92E-07	1.26E-07	1.24E-10	
194	20	Surface	Chromium	mg/kg	5.24E+01	9.15E-06	4.30E-05	5.90E-09	
194	20	Surface	Cobalt	mg/kg	2.11E+01	3.69E-06	1.73E-05	2.38E-09	
194	20	Surface	Manganese	mg/kg	2.29E+03	4.01E-04	1.51E-03	2.59E-07	
194	20	Surface	Mercury	mg/kg	7.28E+00	1.27E-06	5.98E-06	2.45E-05	
194	20	Surface	Nickel	mg/kg	6.57E+01	1.15E-05	4.32E-05	7.41E-09	
194	20	Surface	Silver	mg/kg	1.22E+01	2.14E-06	8.03E-06	1.38E-09	
194	20	Surface	Total PAH	mg/kg	3.10E-02	5.42E-09	6.62E-08	2.58E-10	
194	20	Surface	Vanadium	mg/kg	3.81E+01	6.66E-06	1.63E-05	4.29E-09	
194	21	Surface	Antimony	mg/kg	9.30E-01	1.62E-07	7.64E-07	1.05E-10	
194	21	Surface	Chromium	mg/kg	5.51E+01	9.63E-06	4.52E-05	6.21E-09	
194	21	Surface	Mercury	mg/kg	6.62E+00	1.16E-06	5.44E-06	2.22E-05	
194	21	Surface	Nickel	mg/kg	7.01E+01	1.23E-05	4.61E-05	7.90E-09	
194	21	Surface	Thallium	mg/kg	6.40E-01	1.12E-07	5.26E-07	7.21E-11	
194	22	Surface	Chromium	mg/kg	4.90E+01	8.56E-06	4.02E-05	5.52E-09	
194	22	Surface	Manganese	mg/kg	8.19E+02	1.43E-04	5.38E-04	9.23E-08	
194	22	Surface	PCB, Total	mg/kg	1.09E+01	1.91E-06	2.51E-05	2.08E-06	
194	23	Surface	Arsenic	mg/kg	1.16E+01	2.02E-06	5.69E-06	1.30E-09	
194	23	Surface	Chromium	mg/kg	6.60E+01	1.15E-05	5.42E-05	7.44E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	23	Surface	Iron	mg/kg	1.83E+04	3.19E-03	1.50E-02	2.06E-06	
194	23	Surface	Nickel	mg/kg	8.77E+01	1.53E-05	5.76E-05	9.89E-09	
194	23	Surface	Silver	mg/kg	1.15E+01	2.01E-06	7.54E-06	1.29E-09	
194	24	Surface	Chromium	mg/kg	5.02E+01	8.77E-06	4.12E-05	5.66E-09	
194	24	Surface	Nickel	mg/kg	7.08E+01	1.24E-05	4.65E-05	7.98E-09	
194	24	Surface	Total PAH	mg/kg	2.28E-02	3.98E-09	4.87E-08	1.90E-10	
194	25	Surface	Barium	mg/kg	3.00E+02	5.24E-05	2.46E-04	3.38E-08	
194	25	Surface	Chromium	mg/kg	6.13E+01	1.07E-05	5.03E-05	6.90E-09	
194	25	Surface	Manganese	mg/kg	9.96E+02	1.74E-04	6.54E-04	1.12E-07	
194	25	Surface	Nickel	mg/kg	6.33E+01	1.11E-05	4.16E-05	7.14E-09	
194	25	Surface	Total PAH	mg/kg	2.06E-02	3.60E-09	4.40E-08	1.72E-10	
194	26	Surface	Beryllium	mg/kg	7.00E-01	1.22E-07	8.05E-08	7.89E-11	
194	26	Surface	Chromium	mg/kg	4.18E+01	7.31E-06	3.43E-05	4.71E-09	
194	26	Surface	Silver	mg/kg	1.03E+01	1.79E-06	6.75E-06	1.16E-09	
194	26	Surface	Thallium	mg/kg	3.90E-01	6.81E-08	3.20E-07	4.40E-11	
194	27	Surface	Chromium	mg/kg	5.22E+01	9.12E-06	4.28E-05	5.88E-09	
194	27	Surface	Nickel	mg/kg	6.55E+01	1.14E-05	4.30E-05	7.38E-09	
194	27	Surface	Silver	mg/kg	1.01E+01	1.77E-06	6.65E-06	1.14E-09	
194	28	Surface	Arsenic	mg/kg	1.20E+01	2.10E-06	5.93E-06	1.36E-09	
194	28	Surface	Beryllium	mg/kg	7.10E-01	1.24E-07	8.16E-08	8.00E-11	
194	28	Surface	Chromium	mg/kg	6.07E+01	1.06E-05	4.98E-05	6.84E-09	
194	28	Surface	Manganese	mg/kg	1.14E+03	1.99E-04	7.48E-04	1.28E-07	
194	28	Surface	Nickel	mg/kg	6.95E+01	1.21E-05	4.56E-05	7.83E-09	
194	28	Surface	Silver	mg/kg	1.08E+01	1.89E-06	7.09E-06	1.22E-09	
194	28	Surface	Vanadium	mg/kg	4.06E+01	7.09E-06	1.73E-05	4.58E-09	
194	29	Surface	Antimony	mg/kg	7.10E-01	1.24E-07	5.83E-07	8.00E-11	
194	29	Surface	Chromium	mg/kg	5.06E+01	8.83E-06	4.15E-05	5.70E-09	
194	29	Surface	Nickel	mg/kg	6.51E+01	1.14E-05	4.28E-05	7.34E-09	
194	29	Surface	Silver	mg/kg	9.77E+00	1.71E-06	6.42E-06	1.10E-09	
194	30	Surface	Chromium	mg/kg	5.66E+01	9.88E-06	4.65E-05	6.38E-09	
194	30	Surface	Mercury	mg/kg	8.80E+00	1.54E-06	7.23E-06	2.96E-05	
194	30	Surface	Nickel	mg/kg	6.99E+01	1.22E-05	4.59E-05	7.88E-09	
194	30	Surface	Silver	mg/kg	9.76E+00	1.71E-06	6.41E-06	1.10E-09	
194	31	Surface	Cesium-137	pCi/g	5.70E-01	1.78E+02		1.15E-01	2.60E+00
194	31	Surface	Uranium-238	pCi/g	1.72E+00	5.38E+02		3.47E-01	7.85E+00
195	1	Surface	Chromium	mg/kg	6.33E+01	1.11E-05	5.20E-05	7.13E-09	
195	1	Surface	Nickel	mg/kg	7.02E+01	1.23E-05	4.61E-05	7.91E-09	
195	1	Surface	Silver	mg/kg	9.37E+00	1.64E-06	6.16E-06	1.06E-09	
195	2	Surface	Chromium	mg/kg	4.52E+01	7.90E-06	3.71E-05	5.10E-09	
195	2	Surface	Silver	mg/kg	9.48E+00	1.66E-06	6.23E-06	1.07E-09	
195	2	Surface	Total PAH	mg/kg	2.68E-02	4.68E-09	5.72E-08	2.23E-10	
195	3	Surface	Chromium	mg/kg	5.03E+01	8.79E-06	4.13E-05	5.67E-09	
195	3	Surface	Nickel	mg/kg	5.22E+01	9.11E-06	3.43E-05	5.88E-09	
195	3	Surface	Total PAH	mg/kg	4.06E-02	7.09E-09	8.67E-08	3.38E-10	
195	4	Surface	Chromium	mg/kg	5.29E+01	9.24E-06	4.34E-05	5.96E-09	
195	4	Surface	Nickel	mg/kg	6.23E+01	1.09E-05	4.09E-05	7.02E-09	
195	5	Surface	Chromium	mg/kg	5.74E+01	1.00E-05	4.71E-05	6.47E-09	
195	5	Surface	Nickel	mg/kg	8.11E+01	1.42E-05	5.33E-05	9.14E-09	
195	5	Surface	Total PAH	mg/kg	2.40E-02	4.19E-09	5.12E-08	2.00E-10	
195	6	Surface	Chromium	mg/kg	4.45E+01	7.78E-06	3.66E-05	5.02E-09	
195	6	Surface	Nickel	mg/kg	8.71E+01	1.52E-05	5.72E-05	9.82E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
195	6	Surface	Total PAH	mg/kg	2.48E-01	4.33E-08	5.29E-07	2.06E-09	
195	7	Surface	Chromium	mg/kg	4.93E+01	8.61E-06	4.05E-05	5.55E-09	
195	7	Surface	Silver	mg/kg	8.06E+00	1.41E-06	5.30E-06	9.09E-10	
195	8	Surface	Arsenic	mg/kg	1.16E+01	2.02E-06	5.70E-06	1.30E-09	
195	8	Surface	Beryllium	mg/kg	7.40E-01	1.29E-07	8.51E-08	8.34E-11	
195	8	Surface	Chromium	mg/kg	6.79E+01	1.19E-05	5.58E-05	7.66E-09	
195	8	Surface	Cobalt	mg/kg	1.82E+01	3.18E-06	1.49E-05	2.05E-09	
195	8	Surface	Nickel	mg/kg	7.01E+01	1.23E-05	4.61E-05	7.90E-09	
195	8	Surface	Total PAH	mg/kg	2.16E-01	3.77E-08	4.60E-07	1.80E-09	
195	8	Surface	Vanadium	mg/kg	4.04E+01	7.06E-06	1.73E-05	4.55E-09	
195	9	Surface	Chromium	mg/kg	6.08E+01	1.06E-05	4.99E-05	6.85E-09	
195	9	Surface	Nickel	mg/kg	7.93E+01	1.39E-05	5.21E-05	8.94E-09	
195	10	Surface	Chromium	mg/kg	4.51E+01	7.87E-06	3.70E-05	5.08E-09	
195	10	Surface	Nickel	mg/kg	7.40E+01	1.29E-05	4.86E-05	8.34E-09	
195	10	Surface	Silver	mg/kg	1.31E+01	2.29E-06	8.61E-06	1.48E-09	
195	11	Surface	Aluminum	mg/kg	2.81E+04	4.91E-03	2.31E-02	3.17E-06	
195	11	Surface	Arsenic	mg/kg	1.35E+01	2.35E-06	6.63E-06	1.52E-09	
195	11	Surface	Barium	mg/kg	4.53E+02	7.92E-05	3.72E-04	5.11E-08	
195	11	Surface	Chromium	mg/kg	5.05E+01	8.82E-06	4.15E-05	5.69E-09	
195	11	Surface	Cobalt	mg/kg	2.77E+01	4.84E-06	2.27E-05	3.12E-09	
195	11	Surface	Iron	mg/kg	1.97E+04	3.44E-03	1.62E-02	2.22E-06	
195	11	Surface	Nickel	mg/kg	6.77E+01	1.18E-05	4.45E-05	7.63E-09	
195	11	Surface	Thallium	mg/kg	6.60E-01	1.15E-07	5.42E-07	7.44E-11	
195	11	Surface	Vanadium	mg/kg	7.97E+01	1.39E-05	3.40E-05	8.98E-09	
195	12	Surface	Beryllium	mg/kg	7.50E-01	1.31E-07	8.62E-08	8.45E-11	
195	12	Surface	Chromium	mg/kg	7.04E+01	1.23E-05	5.78E-05	7.93E-09	
195	12	Surface	Nickel	mg/kg	6.78E+01	1.18E-05	4.45E-05	7.64E-09	
195	13	Surface	Chromium	mg/kg	6.55E+01	1.14E-05	5.38E-05	7.38E-09	
195	13	Surface	Nickel	mg/kg	6.91E+01	1.21E-05	4.54E-05	7.79E-09	
195	14	Surface	Chromium	mg/kg	5.94E+01	1.04E-05	4.88E-05	6.70E-09	
195	14	Surface	Nickel	mg/kg	7.04E+01	1.23E-05	4.62E-05	7.93E-09	
195	15	Surface	Chromium	mg/kg	4.82E+01	8.42E-06	3.96E-05	5.43E-09	
195	16	Surface	Chromium	mg/kg	4.45E+01	7.77E-06	3.65E-05	5.01E-09	
195	16	Surface	Nickel	mg/kg	8.16E+01	1.43E-05	5.36E-05	9.20E-09	
195	17	Surface	Chromium	mg/kg	8.22E+01	1.44E-05	6.75E-05	9.26E-09	
195	17	Surface	Mercury	mg/kg	4.17E-01	7.29E-08	3.42E-07	1.40E-06	
195	17	Surface	Nickel	mg/kg	5.93E+01	1.04E-05	3.90E-05	6.69E-09	
195	17	Surface	PCB, Total	mg/kg	7.40E-01	1.29E-07	1.70E-06	1.41E-07	
195	17	Surface	Silver	mg/kg	1.01E+01	1.77E-06	6.66E-06	1.14E-09	
195	17	Surface	Thallium	mg/kg	5.40E-01	9.44E-08	4.43E-07	6.09E-11	
195	17	Surface	Total PAH	mg/kg	3.16E-01	5.52E-08	6.74E-07	2.63E-09	
195	17	Surface	Uranium-235	pCi/g	1.32E-01	4.13E+01		2.66E-02	6.03E-01
195	17	Surface	Uranium-238	pCi/g	2.48E+00	7.75E+02		5.00E-01	1.13E+01
196	1	Surface	Antimony	mg/kg	5.90E-01	1.03E-07	4.85E-07	6.65E-11	
196	1	Surface	Chromium	mg/kg	1.96E+01	3.42E-06	1.61E-05	2.21E-09	
196	1	Surface	Neptunium-237	pCi/g	3.11E-01	9.72E+01		6.27E-02	1.42E+00
196	1	Surface	Nickel	mg/kg	5.56E+02	9.71E-05	3.65E-04	6.27E-08	
196	1	Surface	Uranium	mg/kg	2.33E+01	4.07E-06	1.91E-05	2.63E-09	
196	1	Surface	Uranium-238	pCi/g	1.54E+00	4.81E+02		3.10E-01	7.03E+00
196	2	Surface	Barium	mg/kg	2.02E+02	3.53E-05	1.66E-04	2.28E-08	
196	2	Surface	Cadmium	mg/kg	2.53E+00	4.42E-07	4.16E-08	2.85E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
196	2	Surface	Chromium	mg/kg	2.07E+01	3.62E-06	1.70E-05	2.33E-09	
196	2	Surface	Nickel	mg/kg	7.36E+01	1.29E-05	4.84E-05	8.30E-09	
196	2	Surface	PCB, Total	mg/kg	1.51E+00	2.64E-07	3.47E-06	2.87E-07	
196	2	Surface	Total PAH	mg/kg	6.80E-01	1.19E-07	1.45E-06	5.67E-09	
196	2	Surface	Uranium-238	pCi/g	2.21E+00	6.91E+02		4.46E-01	1.01E+01
200	1	Surface	Antimony	mg/kg	5.60E-01	9.78E-08	4.60E-07	6.31E-11	
200	1	Surface	Cesium-137	pCi/g	5.74E-01	1.79E+02		1.16E-01	2.62E+00
200	1	Surface	Chromium	mg/kg	5.75E+01	1.01E-05	4.72E-05	6.49E-09	
200	1	Surface	Mercury	mg/kg	6.71E+00	1.17E-06	5.51E-06	2.25E-05	
200	1	Surface	Nickel	mg/kg	1.28E+02	2.24E-05	8.41E-05	1.44E-08	
200	1	Surface	PCB, Total	mg/kg	2.60E+00	4.54E-07	5.98E-06	4.94E-07	
200	1	Surface	Total PAH	mg/kg	2.84E-02	4.96E-09	6.06E-08	2.37E-10	
200	1	Surface	Uranium	mg/kg	2.73E+01	4.77E-06	2.24E-05	3.08E-09	
200	1	Surface	Uranium-235	pCi/g	1.43E-01	4.47E+01		2.88E-02	6.53E-01
200	1	Surface	Uranium-238	pCi/g	3.58E+00	1.12E+03		7.21E-01	1.63E+01
204	1	Surface	Aluminum	mg/kg	1.48E+04	2.59E-03	1.22E-02	1.67E-06	
204	1	Surface	Beryllium	mg/kg	1.36E+00	2.38E-07	1.56E-07	1.53E-10	
204	1	Surface	Cadmium	mg/kg	2.73E+00	4.77E-07	4.48E-08	3.08E-10	
204	1	Surface	Chromium	mg/kg	7.40E+01	1.29E-05	6.08E-05	8.34E-09	
204	1	Surface	Iron	mg/kg	4.19E+04	7.32E-03	3.44E-02	4.72E-06	
204	1	Surface	PCB, Total	mg/kg	2.53E+00	4.42E-07	5.82E-06	4.81E-07	
204	1	Surface	Uranium-235	pCi/g	1.80E-01	5.63E+01		3.63E-02	8.22E-01
204	1	Surface	Uranium-238	pCi/g	5.20E+00	1.63E+03		1.05E+00	2.37E+01
204	1	Surface	Vanadium	mg/kg	7.55E+01	1.32E-05	3.22E-05	8.51E-09	
204	2	Surface	Aluminum	mg/kg	1.37E+04	2.39E-03	1.13E-02	1.54E-06	
204	2	Surface	Chromium	mg/kg	1.80E+01	3.15E-06	1.48E-05	2.03E-09	
204	2	Surface	PCB, Total	mg/kg	1.70E-01	2.97E-08	3.91E-07	3.23E-08	
204	3	Surface	Chromium	mg/kg	2.06E+01	3.60E-06	1.69E-05	2.32E-09	
204	3	Surface	Uranium-238	pCi/g	2.50E+00	7.81E+02		5.04E-01	1.14E+01
204	4	Surface	Antimony	mg/kg	1.10E+00	1.92E-07	9.03E-07	1.24E-10	
204	4	Surface	Chromium	mg/kg	2.89E+01	5.05E-06	2.37E-05	3.26E-09	
204	4	Surface	Uranium-235	pCi/g	1.88E-01	5.87E+01		3.79E-02	8.58E-01
204	4	Surface	Uranium-238	pCi/g	9.72E+00	3.04E+03		1.96E+00	4.44E+01
204	18	Surface	Cesium-137	pCi/g	6.30E-01	1.97E+02		1.27E-01	2.88E+00
204	18	Surface	Uranium	mg/kg	1.60E+01	2.80E-06	1.31E-05	1.80E-09	
204	18	Surface	Uranium-235	pCi/g	1.25E-01	3.91E+01		2.52E-02	5.71E-01
204	18	Surface	Uranium-238	pCi/g	5.37E+00	1.68E+03		1.08E+00	2.45E+01
204	23	Surface	Americium-241	pCi/g	3.71E+00	1.16E+03		7.48E-01	1.69E+01
204	23	Surface	Beryllium	mg/kg	1.33E+00	2.32E-07	1.53E-07	1.50E-10	
204	23	Surface	Cesium-137	pCi/g	1.17E+00	3.66E+02		2.36E-01	5.35E+00
204	23	Surface	Chromium	mg/kg	1.75E+02	3.06E-05	1.44E-04	1.97E-08	
204	23	Surface	Cobalt-60	pCi/g	1.23E-02	3.83E+00		2.47E-03	5.59E-02
204	23	Surface	PCB, Total	mg/kg	7.90E+01	1.38E-05	1.82E-04	1.50E-05	
204	23	Surface	Uranium	mg/kg	1.31E+04	2.28E-03	1.07E-02	1.47E-06	
204	23	Surface	Uranium-234	pCi/g	4.45E+02	1.39E+05		8.97E+01	2.03E+03
204	23	Surface	Uranium-235	pCi/g	5.70E+01	1.78E+04		1.15E+01	2.60E+02
204	23	Surface	Uranium-238	pCi/g	4.39E+03	1.37E+06		8.84E+02	2.00E+04
211	1	Surface	Chromium	mg/kg	4.48E+01	7.82E-06	3.67E-05	5.04E-09	
211	1	Surface	Neptunium-237	pCi/g	1.46E-01	4.56E+01		2.94E-02	6.67E-01
211	1	Surface	PCB, Total	mg/kg	3.60E-01	6.29E-08	8.28E-07	6.84E-08	
211	1	Surface	Total PAH	mg/kg	1.04E-01	1.81E-08	2.22E-07	8.65E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
211	1	Surface	Uranium	mg/kg	2.19E+01	3.82E-06	1.80E-05	2.46E-09	
211	1	Surface	Uranium-235	pCi/g	2.12E-01	6.63E+01		4.27E-02	9.68E-01
211	1	Surface	Uranium-238	pCi/g	5.84E+00	1.83E+03		1.18E+00	2.67E+01
212	1	Surface	Arsenic	mg/kg	1.44E+01	2.52E-06	7.11E-06	1.63E-09	
212	1	Surface	Beryllium	mg/kg	8.10E-01	1.42E-07	9.31E-08	9.13E-11	
212	1	Surface	Cesium-137	pCi/g	6.01E-01	1.88E+02		1.21E-01	2.74E+00
212	1	Surface	Chromium	mg/kg	3.58E+01	6.26E-06	2.94E-05	4.04E-09	
212	1	Surface	Cobalt-60	pCi/g	8.76E-03	2.74E+00		1.77E-03	4.00E-02
212	1	Surface	Iron	mg/kg	4.14E+04	7.23E-03	3.40E-02	4.67E-06	
212	1	Surface	Neptunium-237	pCi/g	4.00E+00	1.25E+03		8.06E-01	1.83E+01
212	1	Surface	Nickel	mg/kg	8.69E+01	1.52E-05	5.71E-05	9.80E-09	
212	1	Surface	PCB, Total	mg/kg	1.80E-01	3.15E-08	4.14E-07	3.42E-08	
212	1	Surface	Plutonium-239/240	pCi/g	6.71E+00	2.10E+03		1.35E+00	3.06E+01
212	1	Surface	Thorium-230	pCi/g	2.60E+02	8.13E+04		5.24E+01	1.19E+03
212	1	Surface	Uranium	mg/kg	2.30E+01	4.02E-06	1.89E-05	2.59E-09	
212	1	Surface	Uranium-235	pCi/g	2.09E-01	6.53E+01		4.21E-02	9.54E-01
212	1	Surface	Uranium-238	pCi/g	3.17E+00	9.91E+02		6.39E-01	1.45E+01
213	1	Surface	Antimony	mg/kg	8.50E-01	1.49E-07	6.98E-07	9.58E-11	
213	1	Surface	Chromium	mg/kg	4.78E+01	8.35E-06	3.93E-05	5.39E-09	
213	1	Surface	Nickel	mg/kg	6.67E+01	1.17E-05	4.38E-05	7.52E-09	
213	1	Surface	PCB, Total	mg/kg	7.30E-02	1.28E-08	1.68E-07	1.39E-08	
213	1	Surface	Silver	mg/kg	1.32E+01	2.30E-06	8.65E-06	1.48E-09	
213	1	Surface	Total PAH	mg/kg	1.72E-01	3.00E-08	3.67E-07	1.43E-09	
213	1	Surface	Uranium-238	pCi/g	2.33E+00	7.28E+02		4.70E-01	1.06E+01
213	2	Surface	Chromium	mg/kg	4.48E+01	7.83E-06	3.68E-05	5.05E-09	
213	2	Surface	Nickel	mg/kg	9.10E+01	1.59E-05	5.98E-05	1.03E-08	
213	2	Surface	Silver	mg/kg	1.13E+01	1.97E-06	7.40E-06	1.27E-09	
214	1	Surface	Antimony	mg/kg	5.70E-01	9.96E-08	4.68E-07	6.43E-11	
215	1	Surface	Antimony	mg/kg	6.80E-01	1.19E-07	5.58E-07	7.67E-11	
215	1	Surface	Chromium	mg/kg	5.73E+01	1.00E-05	4.71E-05	6.46E-09	
215	1	Surface	Iron	mg/kg	3.87E+04	6.76E-03	3.18E-02	4.36E-06	
215	1	Surface	Nickel	mg/kg	7.32E+01	1.28E-05	4.81E-05	8.25E-09	
215	1	Surface	Total PAH	mg/kg	8.09E-02	1.41E-08	1.73E-07	6.74E-10	
216	1	Surface	Chromium	mg/kg	2.38E+01	4.16E-06	1.95E-05	2.68E-09	
216	1	Surface	Total PAH	mg/kg	1.49E-01	2.61E-08	3.19E-07	1.24E-09	
216	1	Surface	Uranium-238	pCi/g	1.33E+00	4.16E+02		2.68E-01	6.07E+00
217	1	Surface	Chromium	mg/kg	8.58E+01	1.50E-05	7.04E-05	9.67E-09	
217	1	Surface	Cobalt	mg/kg	1.96E+01	3.42E-06	1.61E-05	2.21E-09	
217	1	Surface	Manganese	mg/kg	7.70E+02	1.34E-04	5.06E-04	8.68E-08	
217	1	Surface	Nickel	mg/kg	8.54E+01	1.49E-05	5.61E-05	9.63E-09	
217	1	Surface	Silver	mg/kg	1.35E+01	2.35E-06	8.84E-06	1.52E-09	
217	1	Surface	Uranium-238	pCi/g	1.15E+00	3.61E+02		2.33E-01	5.27E+00
217	2	Surface	Antimony	mg/kg	1.70E+00	2.97E-07	1.40E-06	1.92E-10	
217	2	Surface	Arsenic	mg/kg	1.12E+01	1.95E-06	5.50E-06	1.26E-09	
217	2	Surface	Chromium	mg/kg	1.02E+02	1.78E-05	8.34E-05	1.15E-08	
217	2	Surface	Cobalt	mg/kg	1.74E+01	3.04E-06	1.43E-05	1.96E-09	
217	2	Surface	Iron	mg/kg	3.09E+04	5.40E-03	2.54E-02	3.49E-06	
217	2	Surface	Manganese	mg/kg	8.44E+02	1.47E-04	5.54E-04	9.51E-08	
217	2	Surface	Mercury	mg/kg	8.59E+00	1.50E-06	7.05E-06	2.89E-05	
217	2	Surface	Nickel	mg/kg	9.74E+01	1.70E-05	6.40E-05	1.10E-08	
217	2	Surface	Silver	mg/kg	1.61E+01	2.81E-06	1.06E-05	1.81E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
217	2	Surface	Total PAH	mg/kg	5.05E-01	8.82E-08	1.08E-06	4.21E-09	
219	1	Surface	Neptunium-237	pCi/g	3.31E-01	1.03E+02		6.67E-02	1.51E+00
219	1	Surface	Nickel	mg/kg	6.71E+01	1.17E-05	4.41E-05	7.57E-09	
219	1	Surface	Total PAH	mg/kg	7.50E-02	1.31E-08	1.60E-07	6.25E-10	
219	1	Surface	Uranium-235	pCi/g	1.92E-01	6.00E+01		3.87E-02	8.77E-01
219	1	Surface	Uranium-238	pCi/g	4.40E+00	1.38E+03		8.87E-01	2.01E+01
221	1	Surface	Barium	mg/kg	2.21E+02	3.86E-05	1.81E-04	2.49E-08	
221	1	Surface	Chromium	mg/kg	7.01E+01	1.23E-05	5.76E-05	7.90E-09	
221	1	Surface	Iron	mg/kg	1.90E+04	3.32E-03	1.56E-02	2.14E-06	
221	1	Surface	Nickel	mg/kg	7.93E+01	1.38E-05	5.21E-05	8.93E-09	
221	1	Surface	PCB, Total	mg/kg	5.00E-01	8.74E-08	1.15E-06	9.50E-08	
221	1	Surface	Total PAH	mg/kg	1.02E+00	1.79E-07	2.18E-06	8.52E-09	
221	1	Surface	Uranium	mg/kg	1.64E+01	2.86E-06	1.34E-05	1.84E-09	
221	1	Surface	Uranium-238	pCi/g	1.93E+00	6.03E+02		3.89E-01	8.81E+00
222	1	Surface	Chromium	mg/kg	4.73E+01	8.27E-06	3.89E-05	5.33E-09	
222	1	Surface	Nickel	mg/kg	9.19E+01	1.61E-05	6.04E-05	1.04E-08	
222	1	Surface	PCB, Total	mg/kg	1.40E+00	2.45E-07	3.22E-06	2.66E-07	
222	1	Surface	Total PAH	mg/kg	1.77E-01	3.10E-08	3.78E-07	1.48E-09	
222	1	Surface	Uranium	mg/kg	2.80E+01	4.89E-06	2.30E-05	3.15E-09	
222	1	Surface	Uranium-234	pCi/g	1.04E+01	3.25E+03		2.10E+00	4.75E+01
222	1	Surface	Uranium-235	pCi/g	7.10E-01	2.22E+02		1.43E-01	3.24E+00
222	1	Surface	Uranium-238	pCi/g	1.96E+01	6.13E+03		3.95E+00	8.95E+01
224	1	Surface	Chromium	mg/kg	4.49E+01	7.85E-06	3.69E-05	5.06E-09	
224	1	Surface	PCB, Total	mg/kg	4.75E+02	8.30E-05	1.09E-03	9.03E-05	
224	1	Surface	Total PAH	mg/kg	4.53E+01	7.91E-06	9.67E-05	3.77E-07	
224	1	Surface	Uranium	mg/kg	4.15E+01	7.25E-06	3.41E-05	4.68E-09	
224	1	Surface	Uranium-235	pCi/g	2.50E-01	7.81E+01		5.04E-02	1.14E+00
224	1	Surface	Uranium-238	pCi/g	2.64E+01	8.25E+03		5.32E+00	1.21E+02
225	1	Surface	Chromium	mg/kg	2.55E+01	4.46E-06	2.09E-05	2.87E-09	
225	1	Surface	Total PAH	mg/kg	7.79E-02	1.36E-08	1.66E-07	6.49E-10	
225	1	Surface	Uranium-238	pCi/g	2.04E+00	6.38E+02		4.11E-01	9.32E+00
226	1	Surface	Americium-241	pCi/g	1.62E+00	5.07E+02		3.27E-01	7.41E+00
226	1	Surface	Antimony	mg/kg	6.60E-01	1.15E-07	5.42E-07	7.44E-11	
226	1	Surface	Cesium-137	pCi/g	2.65E+00	8.28E+02		5.34E-01	1.21E+01
226	1	Surface	Chromium	mg/kg	4.25E+01	7.43E-06	3.49E-05	4.79E-09	
226	1	Surface	Cobalt-60	pCi/g	3.14E-03	9.81E-01		6.33E-04	1.43E-02
226	1	Surface	Manganese	mg/kg	6.30E+02	1.10E-04	4.14E-04	7.10E-08	
226	1	Surface	Mercury	mg/kg	9.74E+00	1.70E-06	8.00E-06	3.27E-05	
226	1	Surface	Neptunium-237	pCi/g	1.60E+02	5.00E+04		3.23E+01	7.31E+02
226	1	Surface	Nickel	mg/kg	2.10E+02	3.66E-05	1.38E-04	2.36E-08	
226	1	Surface	PCB, Total	mg/kg	1.49E+00	2.60E-07	3.43E-06	2.83E-07	
226	1	Surface	Plutonium-238	pCi/g	2.13E+00	6.66E+02		4.30E-01	9.74E+00
226	1	Surface	Plutonium-239/240	pCi/g	6.52E+00	2.04E+03		1.31E+00	2.98E+01
226	1	Surface	Technetium-99	pCi/g	4.96E+01	1.55E+04		1.00E+01	2.27E+02
226	1	Surface	Thorium-230	pCi/g	4.77E+01	1.49E+04		9.62E+00	2.18E+02
226	1	Surface	Total PAH	mg/kg	9.19E-02	1.61E-08	1.96E-07	7.66E-10	
226	1	Surface	Uranium	mg/kg	4.01E+02	7.01E-05	3.29E-04	4.52E-08	
226	1	Surface	Uranium-234	pCi/g	2.29E+01	7.17E+03		4.62E+00	1.05E+02
226	1	Surface	Uranium-235	pCi/g	1.10E+00	3.44E+02		2.22E-01	5.03E+00
226	1	Surface	Uranium-238	pCi/g	2.40E+01	7.50E+03		4.84E+00	1.10E+02
227	1	Surface	Beryllium	mg/kg	5.52E-01	9.64E-08	6.35E-08	6.22E-11	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
227	1	Surface	Cesium-137	pCi/g	1.90E-01	5.94E+01		3.83E-02	8.68E-01
227	1	Surface	Chromium	mg/kg	4.71E+01	8.24E-06	3.87E-05	5.31E-09	
227	1	Surface	Cobalt-60	pCi/g	1.53E-02	4.78E+00		3.08E-03	6.99E-02
227	1	Surface	Neptunium-237	pCi/g	9.05E-01	2.83E+02		1.82E-01	4.13E+00
227	1	Surface	Nickel	mg/kg	2.03E+02	3.55E-05	1.33E-04	2.29E-08	
227	1	Surface	PCB, Total	mg/kg	4.14E+00	7.24E-07	9.53E-06	7.87E-07	
227	1	Surface	Technetium-99	pCi/g	4.77E+01	1.49E+04		9.62E+00	2.18E+02
227	1	Surface	Total PAH	mg/kg	3.38E-01	5.90E-08	7.21E-07	2.82E-09	
227	1	Surface	Uranium	mg/kg	1.02E+02	1.78E-05	8.34E-05	1.15E-08	
227	1	Surface	Uranium-234	pCi/g	1.54E+01	4.83E+03		3.11E+00	7.05E+01
227	1	Surface	Uranium-235	pCi/g	1.49E+00	4.66E+02		3.00E-01	6.80E+00
227	1	Surface	Uranium-238	pCi/g	4.63E+01	1.45E+04		9.33E+00	2.11E+02
227	2	Surface	Beryllium	mg/kg	5.32E-01	9.30E-08	6.12E-08	6.00E-11	
227	2	Surface	Chromium	mg/kg	5.63E+01	9.84E-06	4.62E-05	6.35E-09	
227	2	Surface	Cobalt	mg/kg	8.99E+00	1.57E-06	7.38E-06	1.01E-09	
227	2	Surface	Cobalt-60	pCi/g	1.37E-02	4.28E+00		2.76E-03	6.26E-02
227	2	Surface	Mercury	mg/kg	8.41E+00	1.47E-06	6.91E-06	2.83E-05	
227	2	Surface	Nickel	mg/kg	1.25E+02	2.18E-05	8.21E-05	1.41E-08	
227	2	Surface	PCB, Total	mg/kg	5.82E+00	1.02E-06	1.34E-05	1.11E-06	
227	2	Surface	Total PAH	mg/kg	1.16E-01	2.02E-08	2.47E-07	9.64E-10	
227	2	Surface	Uranium	mg/kg	1.51E+01	2.63E-06	1.24E-05	1.70E-09	
227	2	Surface	Uranium-238	pCi/g	1.57E+00	4.92E+02		3.17E-01	7.18E+00
228	1	Surface	Antimony	mg/kg	6.30E-01	1.10E-07	5.17E-07	7.10E-11	
228	1	Surface	Cadmium	mg/kg	3.90E+00	6.81E-07	6.41E-08	4.40E-10	
228	1	Surface	Chromium	mg/kg	1.89E+02	3.30E-05	1.55E-04	2.13E-08	
228	1	Surface	Mercury	mg/kg	9.37E+00	1.64E-06	7.69E-06	3.15E-05	
228	1	Surface	Neptunium-237	pCi/g	8.00E-01	2.50E+02		1.61E-01	3.65E+00
228	1	Surface	Nickel	mg/kg	7.92E+01	1.38E-05	5.20E-05	8.92E-09	
228	1	Surface	Silver	mg/kg	1.16E+01	2.03E-06	7.64E-06	1.31E-09	
228	1	Surface	Total PAH	mg/kg	6.69E-02	1.17E-08	1.43E-07	5.57E-10	
228	1	Surface	Uranium	mg/kg	1.51E+01	2.64E-06	1.24E-05	1.71E-09	
228	1	Surface	Uranium-235	pCi/g	1.78E-01	5.56E+01		3.59E-02	8.13E-01
228	1	Surface	Uranium-238	pCi/g	3.77E+00	1.18E+03		7.60E-01	1.72E+01
229	1	Surface	Nickel	mg/kg	9.14E+01	1.60E-05	6.00E-05	1.03E-08	
229	1	Surface	Total PAH	mg/kg	1.57E-01	2.74E-08	3.35E-07	1.31E-09	
229	1	Surface	Uranium	mg/kg	1.56E+02	2.72E-05	1.28E-04	1.76E-08	
229	1	Surface	Uranium-238	pCi/g	2.86E+00	8.94E+02		5.77E-01	1.31E+01
229	2	Surface	Arsenic	mg/kg	2.12E+01	3.70E-06	1.04E-05	2.39E-09	
229	2	Surface	Beryllium	mg/kg	7.90E-01	1.38E-07	9.08E-08	8.91E-11	
229	2	Surface	Chromium	mg/kg	2.91E+01	5.09E-06	2.39E-05	3.28E-09	
229	2	Surface	Neptunium-237	pCi/g	2.87E-01	8.97E+01		5.79E-02	1.31E+00
229	2	Surface	Nickel	mg/kg	9.93E+01	1.73E-05	6.52E-05	1.12E-08	
229	2	Surface	Total PAH	mg/kg	1.69E+00	2.96E-07	3.62E-06	1.41E-08	
229	2	Surface	Uranium	mg/kg	7.45E+01	1.30E-05	6.12E-05	8.40E-09	
229	2	Surface	Uranium-234	pCi/g	1.22E+01	3.81E+03		2.46E+00	5.57E+01
229	2	Surface	Uranium-235	pCi/g	8.40E-01	2.63E+02		1.69E-01	3.84E+00
229	2	Surface	Uranium-238	pCi/g	2.49E+01	7.78E+03		5.02E+00	1.14E+02
483	1	Surface	Nickel	mg/kg	1.17E+02	2.04E-05	7.66E-05	1.31E-08	
483	1	Surface	Silver	mg/kg	1.12E+01	1.96E-06	7.35E-06	1.26E-09	
483	1	Surface	Total PAH	mg/kg	2.39E-02	4.18E-09	5.10E-08	1.99E-10	
486	1	Surface	Cesium-137	pCi/g					

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
487	1	Surface	Cesium-137	pCi/g					
488	1	Surface	Cesium-137	pCi/g	5.20E-01	1.63E+02		1.05E-01	2.37E+00
488	1	Surface	PCB, Total	mg/kg	1.03E+01	1.80E-06	2.37E-05	1.96E-06	
488	1	Surface	Total PAH	mg/kg	2.50E-01	4.36E-08	5.33E-07	2.08E-09	
488	1	Surface	Uranium	mg/kg	1.48E+01	2.59E-06	1.22E-05	1.67E-09	
488	1	Surface	Uranium-235	pCi/g	1.49E-01	4.66E+01		3.00E-02	6.80E-01
488	1	Surface	Uranium-238	pCi/g	4.54E+00	1.42E+03		9.15E-01	2.07E+01
489	1	Surface	Chromium	mg/kg	4.16E+01	7.27E-06	3.42E-05	4.69E-09	
489	1	Surface	Nickel	mg/kg	7.88E+01	1.38E-05	5.18E-05	8.89E-09	
489	1	Surface	Total PAH	mg/kg	8.22E-02	1.44E-08	1.75E-07	6.85E-10	
489	1	Surface	Uranium-238	pCi/g	1.47E+00	4.59E+02		2.96E-01	6.71E+00
492	1	Surface	Arsenic	mg/kg	1.47E+01	2.57E-06	7.24E-06	1.66E-09	
492	1	Surface	Beryllium	mg/kg	1.04E+01	1.82E-06	1.20E-06	1.17E-09	
492	1	Surface	Cadmium	mg/kg	3.14E+00	5.49E-07	5.16E-08	3.54E-10	
492	1	Surface	Chromium	mg/kg	1.04E+03	1.82E-04	8.54E-04	1.17E-07	
492	1	Surface	Cobalt-60	pCi/g	9.63E-03	3.01E+00		1.94E-03	4.40E-02
492	1	Surface	Neptunium-237	pCi/g	2.09E-01	6.53E+01		4.21E-02	9.54E-01
492	1	Surface	PCB, Total	mg/kg	4.41E+01	7.71E-06	1.01E-04	8.38E-06	
492	1	Surface	Uranium	mg/kg	1.77E+03	3.09E-04	1.45E-03	2.00E-07	
492	1	Surface	Uranium-234	pCi/g	5.39E+01	1.68E+04		1.09E+01	2.46E+02
492	1	Surface	Uranium-235	pCi/g	5.72E+00	1.79E+03		1.15E+00	2.61E+01
492	1	Surface	Uranium-238	pCi/g	3.83E+02	1.20E+05		7.72E+01	1.75E+03
492	1	Surface	Vanadium	mg/kg	4.32E+01	7.55E-06	1.84E-05	4.87E-09	
493	1	Surface	Aluminum	mg/kg	1.44E+04	2.52E-03	1.18E-02	1.62E-06	
493	1	Surface	Barium	mg/kg	4.04E+02	7.06E-05	3.32E-04	4.55E-08	
493	1	Surface	Beryllium	mg/kg	9.91E-01	1.73E-07	1.14E-07	1.12E-10	
493	1	Surface	Chromium	mg/kg	6.61E+01	1.15E-05	5.43E-05	7.45E-09	
493	1	Surface	Cobalt	mg/kg	3.79E+01	6.62E-06	3.11E-05	4.27E-09	
493	1	Surface	Cobalt-60	pCi/g	1.36E-02	4.25E+00		2.74E-03	6.21E-02
493	1	Surface	Manganese	mg/kg	3.55E+03	6.20E-04	2.33E-03	4.00E-07	
493	1	Surface	Mercury	mg/kg	2.60E-01	4.54E-08	2.14E-07	8.74E-07	
493	1	Surface	Neptunium-237	pCi/g	1.22E-01	3.81E+01		2.46E-02	5.57E-01
493	1	Surface	Nickel	mg/kg	2.13E+02	3.72E-05	1.40E-04	2.40E-08	
493	1	Surface	PCB, Total	mg/kg	2.60E-01	4.54E-08	5.98E-07	4.94E-08	
493	1	Surface	Total PAH	mg/kg	5.00E-01	8.74E-08	1.07E-06	4.17E-09	
493	1	Surface	Uranium-235	pCi/g	1.65E-01	5.16E+01		3.33E-02	7.53E-01
493	1	Surface	Uranium-238	pCi/g	5.50E+00	1.72E+03		1.11E+00	2.51E+01
493	1	Surface	Vanadium	mg/kg	4.05E+01	7.08E-06	1.73E-05	4.57E-09	
517	1	Surface	Beryllium	mg/kg	7.39E-01	1.29E-07	8.50E-08	8.33E-11	
517	1	Surface	Chromium	mg/kg	4.91E+01	8.58E-06	4.03E-05	5.53E-09	
517	1	Surface	Cobalt-60	pCi/g	6.39E-03	2.00E+00		1.29E-03	2.92E-02
517	1	Surface	Neptunium-237	pCi/g	1.07E+00	3.34E+02		2.16E-01	4.89E+00
517	1	Surface	Nickel	mg/kg	1.72E+02	3.01E-05	1.13E-04	1.94E-08	
517	1	Surface	PCB, Total	mg/kg	5.00E-01	8.74E-08	1.15E-06	9.50E-08	
517	1	Surface	Uranium-235	pCi/g	1.60E-01	5.00E+01		3.23E-02	7.31E-01
517	1	Surface	Uranium-238	pCi/g	3.89E+00	1.22E+03		7.84E-01	1.78E+01
518	1	Surface	Carbazole	mg/kg	1.17E+01	2.05E-06	1.92E-05	6.13E-07	
518	1	Surface	Cobalt	mg/kg	6.80E+00	1.19E-06	5.59E-06	7.67E-10	
518	1	Surface	Nickel	mg/kg	1.29E+01	2.25E-06	8.45E-06	1.45E-09	
518	1	Surface	PCB, Total	mg/kg	6.30E-01	1.10E-07	1.45E-06	1.20E-07	
518	1	Surface	Pyrene	mg/kg	3.94E+01	6.89E-06	8.42E-05	2.92E-06	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
518	1	Surface	Total PAH	mg/kg	4.64E+00	8.10E-07	9.90E-06	3.87E-08	
518	1	Surface	Uranium	mg/kg	2.17E+02	3.79E-05	1.78E-04	2.45E-08	
518	1	Surface	Uranium-235	pCi/g	6.74E-02	2.11E+01		1.36E-02	3.08E-01
518	1	Surface	Uranium-238	pCi/g	1.51E+00	4.73E+02		3.05E-01	6.91E+00
520	1	Surface	Cesium-137	pCi/g	9.62E-01	3.01E+02		1.94E-01	4.39E+00
520	1	Surface	Chromium	mg/kg	3.17E+01	5.54E-06	2.61E-05	3.58E-09	
520	1	Surface	Iron	mg/kg	1.56E+04	2.72E-03	1.28E-02	1.76E-06	
520	1	Surface	Mercury	mg/kg	1.07E+01	1.87E-06	8.77E-06	3.59E-05	
520	1	Surface	Neptunium-237	pCi/g	6.56E-01	2.05E+02		1.32E-01	3.00E+00
520	1	Surface	Nickel	mg/kg	2.60E+02	4.55E-05	1.71E-04	2.94E-08	
520	1	Surface	Silver	mg/kg	1.30E+01	2.27E-06	8.52E-06	1.46E-09	
520	1	Surface	Thorium-230	pCi/g	1.13E+01	3.54E+03		2.29E+00	5.18E+01
520	1	Surface	Total PAH	mg/kg	3.18E-02	5.56E-09	6.80E-08	2.65E-10	
520	1	Surface	Uranium	mg/kg	2.29E+01	4.01E-06	1.88E-05	2.59E-09	
520	1	Surface	Uranium-235	pCi/g	1.26E-01	3.94E+01		2.54E-02	5.75E-01
520	1	Surface	Uranium-238	pCi/g	3.93E+00	1.23E+03		7.92E-01	1.79E+01
520	2	Surface	Beryllium	mg/kg	5.79E-01	1.01E-07	6.66E-08	6.53E-11	
520	2	Surface	Chromium	mg/kg	6.67E+01	1.16E-05	5.47E-05	7.51E-09	
520	2	Surface	Manganese	mg/kg	5.89E+02	1.03E-04	3.87E-04	6.64E-08	
520	2	Surface	Mercury	mg/kg	1.19E+01	2.08E-06	9.76E-06	3.99E-05	
520	2	Surface	Neptunium-237	pCi/g	7.48E-02	2.34E+01		1.51E-02	3.42E-01
520	2	Surface	Nickel	mg/kg	3.11E+02	5.43E-05	2.04E-04	3.50E-08	
520	2	Surface	Total PAH	mg/kg	3.17E-01	5.54E-08	6.77E-07	2.64E-09	
520	2	Surface	Uranium	mg/kg	3.96E+01	6.91E-06	3.25E-05	4.46E-09	
520	2	Surface	Uranium-238	pCi/g	1.78E+00	5.56E+02		3.58E-01	8.12E+00
520	3	Surface	Chromium	mg/kg	3.97E+01	6.93E-06	3.26E-05	4.47E-09	
520	3	Surface	Copper	mg/kg	1.19E+02	2.08E-05	9.77E-05	1.34E-08	
520	3	Surface	Nickel	mg/kg	2.65E+02	4.63E-05	1.74E-04	2.99E-08	
520	3	Surface	Silver	mg/kg	1.27E+01	2.21E-06	8.32E-06	1.43E-09	
520	3	Surface	Total PAH	mg/kg	1.18E-01	2.06E-08	2.52E-07	9.84E-10	
520	3	Surface	Uranium	mg/kg	1.92E+01	3.36E-06	1.58E-05	2.17E-09	
520	3	Surface	Uranium-238	pCi/g	1.57E+00	4.91E+02		3.17E-01	7.17E+00
520	4	Surface	Chromium	mg/kg	3.82E+01	6.68E-06	3.14E-05	4.31E-09	
520	4	Surface	Copper	mg/kg	1.11E+02	1.93E-05	9.08E-05	1.25E-08	
520	4	Surface	Mercury	mg/kg	9.69E+00	1.69E-06	7.96E-06	3.26E-05	
520	4	Surface	Neptunium-237	pCi/g	7.40E-01	2.31E+02		1.49E-01	3.38E+00
520	4	Surface	Nickel	mg/kg	2.82E+02	4.93E-05	1.85E-04	3.18E-08	
520	4	Surface	Silver	mg/kg	1.04E+01	1.82E-06	6.86E-06	1.18E-09	
520	4	Surface	Total PAH	mg/kg	5.52E-01	9.65E-08	1.18E-06	4.60E-09	
520	4	Surface	Uranium	mg/kg	2.40E+01	4.20E-06	1.97E-05	2.71E-09	
520	4	Surface	Uranium-235	pCi/g	2.42E-01	7.56E+01		4.88E-02	1.11E+00
520	4	Surface	Uranium-238	pCi/g	6.26E+00	1.96E+03		1.26E+00	2.86E+01
520	5	Surface	Antimony	mg/kg	9.60E-01	1.68E-07	7.88E-07	1.08E-10	
520	5	Surface	Chromium	mg/kg	3.68E+01	6.43E-06	3.02E-05	4.15E-09	
520	5	Surface	Neptunium-237	pCi/g	1.55E-01	4.84E+01		3.13E-02	7.08E-01
520	5	Surface	Nickel	mg/kg	1.47E+02	2.57E-05	9.65E-05	1.66E-08	
520	5	Surface	Total PAH	mg/kg	3.87E-01	6.77E-08	8.27E-07	3.23E-09	
520	5	Surface	Uranium-238	pCi/g	1.45E+00	4.53E+02		2.92E-01	6.62E+00
531	1	Surface	Antimony	mg/kg	1.00E+00	1.75E-07	8.21E-07	1.13E-10	
531	1	Surface	Arsenic	mg/kg	4.68E+01	8.18E-06	2.31E-05	5.28E-09	
531	1	Surface	Cadmium	mg/kg	3.10E+00	5.42E-07	5.09E-08	3.49E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
531	1	Surface	Chromium	mg/kg	5.05E+01	8.81E-06	4.14E-05	5.69E-09	
531	1	Surface	Iron	mg/kg	5.68E+04	9.93E-03	4.67E-02	6.41E-06	
531	1	Surface	Nickel	mg/kg	1.62E+02	2.83E-05	1.07E-04	1.83E-08	
531	1	Surface	Total PAH	mg/kg	5.34E-02	9.33E-09	1.14E-07	4.45E-10	
531	1	Surface	Uranium	mg/kg	2.41E+01	4.21E-06	1.98E-05	2.71E-09	
531	1	Surface	Uranium-235	pCi/g	1.38E-01	4.31E+01		2.78E-02	6.30E-01
531	1	Surface	Uranium-238	pCi/g	3.48E+00	1.09E+03		7.02E-01	1.59E+01
531	1	Surface	Zinc	mg/kg	2.45E+03	4.28E-04	2.01E-03	2.76E-07	
541	1	Surface	Aluminum	mg/kg	1.43E+04	2.50E-03	1.17E-02	1.61E-06	
541	1	Surface	Americium-241	pCi/g	7.53E+00	2.35E+03		1.52E+00	3.44E+01
541	1	Surface	Barium	mg/kg	1.28E+02	2.24E-05	1.05E-04	1.44E-08	
541	1	Surface	Beryllium	mg/kg	6.98E-01	1.22E-07	8.02E-08	7.87E-11	
541	1	Surface	Cadmium	mg/kg	1.68E+00	2.94E-07	2.76E-08	1.90E-10	
541	1	Surface	Cesium-137	pCi/g	9.58E-01	2.99E+02		1.93E-01	4.37E+00
541	1	Surface	Chromium	mg/kg	8.24E+02	1.44E-04	6.77E-04	9.29E-08	
541	1	Surface	Cobalt-60	pCi/g	1.01E-02	3.16E+00		2.04E-03	4.61E-02
541	1	Surface	Iron	mg/kg	1.60E+04	2.79E-03	1.31E-02	1.80E-06	
541	1	Surface	Mercury	mg/kg	9.81E-02	1.71E-08	8.06E-08	3.30E-07	
541	1	Surface	Naphthalene	mg/kg	6.55E-01	1.14E-07	2.69E-06	2.46E-06	
541	1	Surface	Neptunium-237	pCi/g	5.52E-02	1.73E+01		1.11E-02	2.52E-01
541	1	Surface	Nickel	mg/kg	1.52E+01	2.66E-06	1.00E-05	1.72E-09	
541	1	Surface	PCB, Total	mg/kg	6.06E+01	1.06E-05	1.39E-04	1.15E-05	
541	1	Surface	Total PAH	mg/kg	2.33E+00	4.07E-07	4.97E-06	1.94E-08	
541	1	Surface	Uranium	mg/kg	6.38E+03	1.12E-03	5.24E-03	7.20E-07	
541	1	Surface	Uranium-234	pCi/g	1.43E+02	4.47E+04		2.88E+01	6.53E+02
541	1	Surface	Uranium-235	pCi/g	1.76E+01	5.49E+03		3.54E+00	8.02E+01
541	1	Surface	Uranium-238	pCi/g	1.00E+03	3.13E+05		2.02E+02	4.57E+03
541	1	Surface	Vanadium	mg/kg	3.04E+01	5.32E-06	1.30E-05	3.43E-09	
561	1	Surface	Antimony	mg/kg	9.36E-01	1.64E-07	7.69E-07	1.06E-10	
561	1	Surface	Arsenic	mg/kg	1.66E+01	2.89E-06	8.15E-06	1.87E-09	
561	1	Surface	Barium	mg/kg	1.40E+02	2.45E-05	1.15E-04	1.58E-08	
561	1	Surface	Beryllium	mg/kg	6.85E-01	1.20E-07	7.88E-08	7.72E-11	
561	1	Surface	Chromium	mg/kg	8.58E+01	1.50E-05	7.04E-05	9.67E-09	
561	1	Surface	Cobalt	mg/kg	1.07E+01	1.87E-06	8.78E-06	1.21E-09	
561	1	Surface	Cobalt-60	pCi/g	7.06E-02	2.21E+01		1.42E-02	3.22E-01
561	1	Surface	Iron	mg/kg	2.05E+04	3.58E-03	1.68E-02	2.31E-06	
561	1	Surface	Manganese	mg/kg	1.61E+03	2.81E-04	1.06E-03	1.81E-07	
561	1	Surface	Neptunium-237	pCi/g	2.71E-02	8.47E+00		5.46E-03	1.24E-01
561	1	Surface	PCB, Total	mg/kg	1.04E+00	1.82E-07	2.40E-06	1.98E-07	
561	1	Surface	Thallium	mg/kg	3.33E-01	5.82E-08	2.73E-07	3.75E-11	
561	1	Surface	Total PAH	mg/kg	1.65E-01	2.88E-08	3.52E-07	1.38E-09	
561	1	Surface	Uranium	mg/kg	2.65E+02	4.63E-05	2.17E-04	2.99E-08	
561	1	Surface	Uranium-234	pCi/g	7.84E+00	2.45E+03		1.58E+00	3.58E+01
561	1	Surface	Uranium-235	pCi/g	1.37E+00	4.27E+02		2.75E-01	6.24E+00
561	1	Surface	Uranium-238	pCi/g	1.07E+02	3.33E+04		2.15E+01	4.86E+02
561	1	Surface	Vanadium	mg/kg	3.76E+01	6.58E-06	1.61E-05	4.24E-09	
561	2	Surface	Antimony	mg/kg	5.33E+00	9.32E-07	4.38E-06	6.01E-10	
561	2	Surface	Arsenic	mg/kg	1.30E+01	2.27E-06	6.41E-06	1.47E-09	
561	2	Surface	Beryllium	mg/kg	6.34E-01	1.11E-07	7.29E-08	7.15E-11	
561	2	Surface	Cadmium	mg/kg	4.13E-01	7.22E-08	6.78E-09	4.66E-11	
561	2	Surface	Cesium-137	pCi/g	4.09E-01	1.28E+02		8.25E-02	1.87E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
561	2	Surface	Chromium	mg/kg	2.88E+02	5.04E-05	2.37E-04	3.25E-08	
561	2	Surface	Cobalt	mg/kg	1.14E+01	1.99E-06	9.36E-06	1.29E-09	
561	2	Surface	Cobalt-60	pCi/g	2.76E-02	8.63E+00		5.56E-03	1.26E-01
561	2	Surface	Manganese	mg/kg	1.12E+03	1.95E-04	7.33E-04	1.26E-07	
561	2	Surface	Neptunium-237	pCi/g	4.71E-02	1.47E+01		9.50E-03	2.15E-01
561	2	Surface	PCB, Total	mg/kg	1.64E+01	2.86E-06	3.76E-05	3.11E-06	
561	2	Surface	Thallium	mg/kg	4.09E-01	7.15E-08	3.36E-07	4.61E-11	
561	2	Surface	Total PAH	mg/kg	4.43E-01	7.74E-08	9.46E-07	3.69E-09	
561	2	Surface	Uranium	mg/kg	1.38E+03	2.42E-04	1.14E-03	1.56E-07	
561	2	Surface	Uranium-234	pCi/g	4.06E+01	1.27E+04		8.19E+00	1.86E+02
561	2	Surface	Uranium-235	pCi/g	7.09E+00	2.22E+03		1.43E+00	3.24E+01
561	2	Surface	Uranium-238	pCi/g	4.00E+02	1.25E+05		8.07E+01	1.83E+03
561	2	Surface	Vanadium	mg/kg	3.46E+01	6.04E-06	1.48E-05	3.89E-09	
562	1	Surface	Uranium	mg/kg	8.73E+01	1.53E-05	7.17E-05	9.84E-09	
562	1	Surface	Uranium-238	pCi/g	2.73E+00	8.53E+02		5.50E-01	1.25E+01
562	2	Surface	PCB, Total	mg/kg	1.58E+00	2.76E-07	3.63E-06	3.00E-07	
562	2	Surface	Uranium-234	pCi/g	5.34E+01	1.67E+04		1.08E+01	2.44E+02
562	2	Surface	Uranium-235	pCi/g	8.96E+00	2.80E+03		1.81E+00	4.09E+01
562	2	Surface	Uranium-238	pCi/g	5.81E+02	1.82E+05		1.17E+02	2.65E+03
562	3	Surface	Chromium	mg/kg	3.82E+01	6.67E-06	3.13E-05	4.30E-09	
562	3	Surface	PCB, Total	mg/kg	2.40E-01	4.19E-08	5.52E-07	4.56E-08	
562	3	Surface	Total PAH	mg/kg	2.20E-01	3.84E-08	4.70E-07	1.83E-09	
562	3	Surface	Uranium	mg/kg	5.89E+01	1.03E-05	4.84E-05	6.64E-09	
562	3	Surface	Uranium-235	pCi/g	1.63E-01	5.09E+01		3.29E-02	7.44E-01
562	3	Surface	Uranium-238	pCi/g	1.09E+01	3.41E+03		2.20E+00	4.98E+01
562	4	Surface	Chromium	mg/kg	4.67E+01	8.15E-06	3.83E-05	5.26E-09	
562	4	Surface	Uranium	mg/kg	2.10E+01	3.67E-06	1.72E-05	2.37E-09	
562	4	Surface	Uranium-238	pCi/g	2.24E+00	7.00E+02		4.52E-01	1.02E+01
562	5	Surface	Chromium	mg/kg	1.53E+02	2.68E-05	1.26E-04	1.73E-08	
562	5	Surface	PCB, Total	mg/kg	9.50E-01	1.66E-07	2.18E-06	1.81E-07	
562	5	Surface	Total PAH	mg/kg	7.05E-02	1.23E-08	1.51E-07	5.88E-10	
562	5	Surface	Uranium	mg/kg	2.08E+02	3.63E-05	1.71E-04	2.34E-08	
562	5	Surface	Uranium-234	pCi/g	8.57E+00	2.68E+03		1.73E+00	3.91E+01
562	5	Surface	Uranium-235	pCi/g	9.50E-01	2.97E+02		1.92E-01	4.34E+00
562	5	Surface	Uranium-238	pCi/g	6.24E+01	1.95E+04		1.26E+01	2.85E+02
563	1	Surface	Cadmium	mg/kg	8.96E-01	1.57E-07	1.47E-08	1.01E-10	
563	1	Surface	Chromium	mg/kg	2.85E+02	4.98E-05	2.34E-04	3.21E-08	
563	1	Surface	PCB, Total	mg/kg	7.40E-01	1.29E-07	1.70E-06	1.41E-07	
563	1	Surface	Uranium	mg/kg	1.51E+01	2.64E-06	1.24E-05	1.70E-09	
563	1	Surface	Uranium-238	pCi/g	2.76E+00	8.63E+02		5.56E-01	1.26E+01
563	2	Surface	Cesium-137	pCi/g	6.47E-01	2.02E+02		1.30E-01	2.95E+00
563	2	Surface	Uranium-238	pCi/g	1.49E+00	4.66E+02		3.00E-01	6.80E+00
564	1	Surface	Arsenic	mg/kg	4.30E+01	7.51E-06	2.12E-05	4.85E-09	
564	1	Surface	Beryllium	mg/kg	2.12E+00	3.70E-07	2.44E-07	2.39E-10	
564	1	Surface	Cadmium	mg/kg	1.96E+00	3.42E-07	3.22E-08	2.21E-10	
564	1	Surface	Cesium-137	pCi/g	6.20E-01	1.94E+02		1.25E-01	2.83E+00
564	1	Surface	Chromium	mg/kg	7.49E+01	1.31E-05	6.15E-05	8.45E-09	
564	1	Surface	Iron	mg/kg	3.66E+04	6.40E-03	3.01E-02	4.13E-06	
564	1	Surface	Mercury	mg/kg	2.30E-01	4.02E-08	1.89E-07	7.73E-07	
564	1	Surface	Nickel	mg/kg	2.24E+01	3.91E-06	1.47E-05	2.53E-09	
564	1	Surface	PCB, Total	mg/kg	1.93E+00	3.37E-07	4.44E-06	3.67E-07	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.10. Cancerous CDIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
564	1	Surface	Thallium	mg/kg	2.36E+00	4.12E-07	1.94E-06	2.66E-10	
564	1	Surface	Thorium-230	pCi/g	5.01E+00	1.57E+03		1.01E+00	2.29E+01
564	1	Surface	Uranium	mg/kg	5.83E+01	1.02E-05	4.79E-05	6.57E-09	
564	1	Surface	Uranium-234	pCi/g	6.93E+00	2.17E+03		1.40E+00	3.16E+01
564	1	Surface	Uranium-235	pCi/g	3.87E-01	1.21E+02		7.80E-02	1.77E+00
564	1	Surface	Uranium-238	pCi/g	8.33E+00	2.60E+03		1.68E+00	3.80E+01
564	1	Surface	Vanadium	mg/kg	8.06E+01	1.41E-05	3.44E-05	9.09E-09	
567	3	Surface	Chromium	mg/kg	3.79E+01	6.62E-06	3.11E-05	4.27E-09	
567	4	Surface	Aluminum	mg/kg	1.25E+04	2.19E-03	1.03E-02	1.41E-06	
567	4	Surface	Chromium	mg/kg	1.63E+01	2.85E-06	1.34E-05	1.84E-09	
567	4	Surface	Uranium-238	pCi/g	1.05E+00	3.28E+02		2.11E-01	4.79E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
1	1	Subsurface	Aluminum	mg/kg	1.05E+04	3.66E-02	1.79E-02	2.46E-06
1	1	Subsurface	Antimony	mg/kg	2.06E+00	7.16E-06	3.50E-06	4.81E-10
1	1	Subsurface	Arsenic	mg/kg	6.74E+00	2.34E-05	6.88E-06	1.57E-09
1	1	Subsurface	Barium	mg/kg	1.46E+02	5.09E-04	2.49E-04	3.42E-08
1	1	Subsurface	Beryllium	mg/kg	3.37E+00	1.17E-05	8.03E-07	7.87E-10
1	1	Subsurface	Cadmium	mg/kg	1.83E+00	6.35E-06	6.22E-08	4.27E-10
1	1	Subsurface	Cesium-137	pCi/g	5.91E-01	2.05E-06		1.38E-10
1	1	Subsurface	Chromium	mg/kg	2.32E+01	8.07E-05	3.95E-05	5.42E-09
1	1	Subsurface	Cobalt	mg/kg	1.05E+01	3.66E-05	1.79E-05	2.46E-09
1	1	Subsurface	Manganese	mg/kg	1.00E+03	3.49E-03	1.37E-03	2.35E-07
1	1	Subsurface	Neptunium-237	pCi/g	4.02E-01	1.40E-06		9.39E-11
1	1	Subsurface	Nickel	mg/kg	1.62E+01	5.61E-05	2.20E-05	3.77E-09
1	1	Subsurface	PCB, Total	mg/kg	1.20E-01	4.17E-07	5.72E-07	4.73E-08
1	1	Subsurface	Plutonium-239/240	pCi/g	6.14E+00	2.13E-05		1.43E-09
1	1	Subsurface	Thallium	mg/kg	8.92E-01	3.10E-06	1.52E-06	2.08E-10
1	1	Subsurface	Thorium-230	pCi/g	4.40E+01	1.53E-04		1.03E-08
1	1	Subsurface	Trichloroethene	mg/kg	6.90E-01	2.40E-06	5.87E-06	8.84E-05
1	1	Subsurface	Uranium-235	pCi/g	1.06E-01	3.68E-07		2.48E-11
1	1	Subsurface	Uranium-238	pCi/g	1.97E+00	6.86E-06		4.61E-10
1	1	Subsurface	Vanadium	mg/kg	3.29E+01	1.14E-04	2.91E-05	7.68E-09
1	2	Subsurface	Aluminum	mg/kg	9.14E+03	3.18E-02	1.56E-02	2.14E-06
1	2	Subsurface	Arsenic	mg/kg	7.82E+00	2.72E-05	7.98E-06	1.83E-09
1	2	Subsurface	Barium	mg/kg	1.57E+02	5.46E-04	2.67E-04	3.67E-08
1	2	Subsurface	Beryllium	mg/kg	5.07E+00	1.76E-05	1.21E-06	1.18E-09
1	2	Subsurface	Cadmium	mg/kg	3.74E+00	1.30E-05	1.27E-07	8.73E-10
1	2	Subsurface	Chromium	mg/kg	1.26E+02	4.37E-04	2.14E-04	2.94E-08
1	2	Subsurface	cis-1,2-Dichloroethene	mg/kg	2.40E+03	8.34E-03	2.04E-02	2.67E-01
1	2	Subsurface	Copper	mg/kg	1.13E+02	3.91E-04	1.92E-04	2.63E-08
1	2	Subsurface	Manganese	mg/kg	7.28E+02	2.53E-03	9.90E-04	1.70E-07
1	2	Subsurface	Mercury	mg/kg	7.06E+00	2.45E-05	1.20E-05	4.92E-05
1	2	Subsurface	Nickel	mg/kg	4.96E+01	1.72E-04	6.75E-05	1.16E-08
1	2	Subsurface	PCB, Total	mg/kg	1.47E+01	5.12E-05	7.01E-05	5.80E-06
1	2	Subsurface	Silver	mg/kg	7.39E+01	2.57E-04	1.01E-04	1.73E-08
1	2	Subsurface	Thallium	mg/kg	3.70E-01	1.29E-06	6.30E-07	8.64E-11
1	2	Subsurface	trans-1,2-Dichloroethene	mg/kg	8.93E+00	3.10E-05	7.60E-05	9.87E-04
1	2	Subsurface	Trichloroethene	mg/kg	6.48E+01	2.25E-04	5.51E-04	8.30E-03
1	2	Subsurface	Vanadium	mg/kg	3.22E+01	1.12E-04	2.85E-05	7.51E-09
1	2	Subsurface	Vinyl chloride	mg/kg	4.47E+00	1.55E-05	3.80E-05	1.10E-03
1	3	Subsurface	Antimony	mg/kg	3.80E-01	1.32E-06	6.47E-07	8.88E-11
1	3	Subsurface	Arsenic	mg/kg	6.24E+00	2.17E-05	6.37E-06	1.46E-09
1	3	Subsurface	Barium	mg/kg	1.34E+02	4.64E-04	2.27E-04	3.12E-08
1	3	Subsurface	Cadmium	mg/kg	3.32E+00	1.15E-05	1.13E-07	7.75E-10
1	3	Subsurface	Manganese	mg/kg	5.13E+02	1.78E-03	6.98E-04	1.20E-07
1	3	Subsurface	Nickel	mg/kg	2.16E+01	7.52E-05	2.94E-05	5.05E-09
1	3	Subsurface	PCB, Total	mg/kg	2.08E-01	7.23E-07	9.91E-07	8.19E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
1	3	Subsurface	Uranium-238	pCi/g	1.73E+00	6.01E-06		4.04E-10
1	4	Subsurface	Beryllium	mg/kg	7.52E-01	2.61E-06	1.79E-07	1.76E-10
1	4	Subsurface	Cadmium	mg/kg	2.09E+00	7.25E-06	7.10E-08	4.87E-10
1	4	Subsurface	Cesium-137	pCi/g	3.37E-01	1.17E-06		7.87E-11
1	4	Subsurface	Chromium	mg/kg	7.09E+01	2.47E-04	1.21E-04	1.66E-08
1	4	Subsurface	Cobalt-60	pCi/g	2.20E-02	7.65E-08		5.14E-12
1	4	Subsurface	Nickel	mg/kg	2.81E+01	9.76E-05	3.82E-05	6.56E-09
1	4	Subsurface	PCB, Total	mg/kg	9.24E-02	3.21E-07	4.40E-07	3.64E-08
1	4	Subsurface	Thorium-230	pCi/g	5.03E+00	1.75E-05		1.17E-09
1	4	Subsurface	Trichloroethene	mg/kg	1.90E-01	6.60E-07	1.62E-06	2.43E-05
1	4	Subsurface	Vanadium	mg/kg	2.87E+01	9.98E-05	2.54E-05	6.71E-09
1	5	Subsurface	Aluminum	mg/kg	1.20E+04	4.17E-02	2.04E-02	2.80E-06
1	5	Subsurface	Arsenic	mg/kg	1.67E+01	5.80E-05	1.70E-05	3.90E-09
1	5	Subsurface	Barium	mg/kg	2.15E+02	7.47E-04	3.66E-04	5.02E-08
1	5	Subsurface	Beryllium	mg/kg	8.30E+00	2.88E-05	1.98E-06	1.94E-09
1	5	Subsurface	Cadmium	mg/kg	2.97E+00	1.03E-05	1.01E-07	6.94E-10
1	5	Subsurface	Cobalt	mg/kg	1.43E+01	4.97E-05	2.43E-05	3.34E-09
1	5	Subsurface	Manganese	mg/kg	2.16E+03	7.51E-03	2.94E-03	5.05E-07
1	5	Subsurface	Nickel	mg/kg	4.07E+01	1.41E-04	5.54E-05	9.51E-09
1	5	Subsurface	PCB, Total	mg/kg	2.70E-01	9.38E-07	1.29E-06	1.06E-07
1	5	Subsurface	Total PAH	mg/kg	9.83E-02	3.42E-07	4.35E-07	1.70E-09
12	1	Subsurface	Aluminum	mg/kg	9.31E+03	3.23E-02	1.58E-02	2.17E-06
12	1	Subsurface	Antimony	mg/kg	9.00E-01	3.13E-06	1.53E-06	2.10E-10
12	1	Subsurface	Arsenic	mg/kg	1.43E+01	4.97E-05	1.46E-05	3.34E-09
12	1	Subsurface	Barium	mg/kg	1.72E+02	5.98E-04	2.93E-04	4.02E-08
12	1	Subsurface	Beryllium	mg/kg	4.75E+00	1.65E-05	1.13E-06	1.11E-09
12	1	Subsurface	Cadmium	mg/kg	1.08E+00	3.75E-06	3.67E-08	2.52E-10
12	1	Subsurface	Chromium	mg/kg	5.01E+01	1.74E-04	8.53E-05	1.17E-08
12	1	Subsurface	Cobalt	mg/kg	2.47E+01	8.59E-05	4.20E-05	5.77E-09
12	1	Subsurface	Cobalt-60	pCi/g	1.58E-02	5.49E-08		3.69E-12
12	1	Subsurface	Iron	mg/kg	3.87E+04	1.35E-01	6.59E-02	9.04E-06
12	1	Subsurface	Manganese	mg/kg	1.27E+03	4.42E-03	1.73E-03	2.97E-07
12	1	Subsurface	Mercury	mg/kg	8.80E+00	3.06E-05	1.50E-05	6.13E-05
12	1	Subsurface	Molybdenum	mg/kg	2.33E+01	8.10E-05	3.96E-05	5.44E-09
12	1	Subsurface	Nickel	mg/kg	8.72E+01	3.03E-04	1.19E-04	2.04E-08
12	1	Subsurface	PCB, Total	mg/kg	7.30E-01	2.54E-06	3.48E-06	2.87E-07
12	1	Subsurface	Silver	mg/kg	1.13E+01	3.94E-05	1.54E-05	2.65E-09
12	1	Subsurface	Thallium	mg/kg	1.03E+00	3.58E-06	1.75E-06	2.41E-10
12	1	Subsurface	Total PAH	mg/kg	2.71E-01	9.42E-07	1.20E-06	4.68E-09
12	1	Subsurface	Uranium	mg/kg	9.34E+02	3.24E-03	1.59E-03	2.18E-07
12	1	Subsurface	Uranium-234	pCi/g	9.11E+00	3.17E-05		2.13E-09
12	1	Subsurface	Uranium-235	pCi/g	1.01E+00	3.49E-06		2.35E-10
12	1	Subsurface	Uranium-238	pCi/g	4.28E+01	1.49E-04		1.00E-08
12	1	Subsurface	Vanadium	mg/kg	3.09E+01	1.08E-04	2.74E-05	7.23E-09
13	1	Subsurface	Beryllium	mg/kg	6.24E-01	2.17E-06	1.49E-07	1.46E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
13	1	Subsurface	Cadmium	mg/kg	2.25E+00	7.81E-06	7.64E-08	5.25E-10
13	1	Subsurface	Cobalt-60	pCi/g	4.47E-03	1.55E-08		1.04E-12
13	1	Subsurface	PCB, Total	mg/kg	3.44E-01	1.20E-06	1.64E-06	1.35E-07
13	1	Subsurface	Uranium-238	pCi/g	1.40E+00	4.87E-06		3.27E-10
13	1	Subsurface	Vanadium	mg/kg	2.61E+01	9.05E-05	2.30E-05	6.08E-09
13	2	Subsurface	Cadmium	mg/kg	1.85E+00	6.42E-06	6.28E-08	4.31E-10
13	2	Subsurface	Cobalt-60	pCi/g	3.24E-03	1.13E-08		7.57E-13
13	3	Subsurface	Beryllium	mg/kg	6.15E-01	2.14E-06	1.47E-07	1.44E-10
13	3	Subsurface	Cadmium	mg/kg	2.11E+00	7.32E-06	7.17E-08	4.92E-10
13	3	Subsurface	Cobalt-60	pCi/g	1.95E-02	6.78E-08		4.55E-12
13	3	Subsurface	Vanadium	mg/kg	3.31E+01	1.15E-04	2.93E-05	7.73E-09
13	4	Subsurface	Cobalt-60	pCi/g	8.06E-02	2.80E-07		1.88E-11
13	4	Subsurface	Neptunium-237	pCi/g	1.24E-01	4.31E-07		2.90E-11
13	4	Subsurface	PCB, Total	mg/kg	3.10E-01	1.08E-06	1.48E-06	1.22E-07
13	4	Subsurface	Uranium-235	pCi/g	1.05E-01	3.65E-07		2.45E-11
13	4	Subsurface	Uranium-238	pCi/g	3.14E+00	1.09E-05		7.34E-10
13	5	Subsurface	Aluminum	mg/kg	9.83E+03	3.42E-02	1.67E-02	2.30E-06
13	5	Subsurface	Antimony	mg/kg	8.20E-01	2.85E-06	1.40E-06	1.92E-10
13	5	Subsurface	Cadmium	mg/kg	2.36E+00	8.19E-06	8.02E-08	5.50E-10
13	5	Subsurface	Cesium-137	pCi/g	3.97E-01	1.38E-06		9.27E-11
13	5	Subsurface	Chromium	mg/kg	1.20E+02	4.18E-04	2.05E-04	2.81E-08
13	5	Subsurface	Cobalt-60	pCi/g	5.74E-03	1.99E-08		1.34E-12
13	5	Subsurface	Neptunium-237	pCi/g	7.52E-02	2.61E-07		1.76E-11
13	5	Subsurface	Nickel	mg/kg	1.01E+02	3.51E-04	1.38E-04	2.36E-08
13	5	Subsurface	PCB, Total	mg/kg	9.20E-01	3.20E-06	4.38E-06	3.62E-07
13	5	Subsurface	Total PAH	mg/kg	6.65E-02	2.31E-07	2.94E-07	1.15E-09
13	5	Subsurface	Uranium	mg/kg	1.19E+02	4.14E-04	2.03E-04	2.78E-08
13	5	Subsurface	Uranium-238	pCi/g	2.21E+00	7.68E-06		5.16E-10
13	6	Subsurface	Beryllium	mg/kg	5.72E-01	1.99E-06	1.36E-07	1.34E-10
13	6	Subsurface	Cadmium	mg/kg	3.94E+00	1.37E-05	1.34E-07	9.21E-10
13	6	Subsurface	Cesium-137	pCi/g	2.33E-01	8.10E-07		5.44E-11
13	6	Subsurface	Cobalt-60	pCi/g	8.48E-03	2.95E-08		1.98E-12
13	6	Subsurface	Manganese	mg/kg	8.34E+02	2.90E-03	1.13E-03	1.95E-07
13	6	Subsurface	Neptunium-237	pCi/g	6.52E-02	2.27E-07		1.52E-11
13	6	Subsurface	PCB, Total	mg/kg	2.63E-01	9.14E-07	1.25E-06	1.04E-07
13	6	Subsurface	Silver	mg/kg	2.58E+00	8.95E-06	3.51E-06	6.02E-10
13	6	Subsurface	Total PAH	mg/kg	8.00E-01	2.78E-06	3.54E-06	1.38E-08
13	6	Subsurface	Uranium-238	pCi/g	3.63E+00	1.26E-05		8.49E-10
13	7	Subsurface	PCB, Total	mg/kg	5.50E-01	1.91E-06	2.62E-06	2.17E-07
13	7	Subsurface	Uranium-238	pCi/g	4.82E+00	1.68E-05		1.13E-09
13	9	Subsurface	Cesium-137	pCi/g	3.04E-01	1.06E-06		7.10E-11
13	9	Subsurface	Neptunium-237	pCi/g	6.84E-01	2.38E-06		1.60E-10
13	9	Subsurface	Uranium	mg/kg	1.82E+01	6.33E-05	3.10E-05	4.25E-09
13	9	Subsurface	Uranium-235	pCi/g	2.22E-01	7.72E-07		5.19E-11
13	9	Subsurface	Uranium-238	pCi/g	4.75E+00	1.65E-05		1.11E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
13	10	Subsurface	Cobalt-60	pCi/g	1.49E-02	5.18E-08		3.48E-12
13	11	Subsurface	Cobalt-60	pCi/g	1.30E-02	4.52E-08		3.04E-12
13	12	Subsurface	Barium	mg/kg	1.29E+02	4.50E-04	2.20E-04	3.02E-08
13	12	Subsurface	Beryllium	mg/kg	6.25E-01	2.17E-06	1.49E-07	1.46E-10
13	12	Subsurface	Cadmium	mg/kg	2.59E+00	9.02E-06	8.83E-08	6.06E-10
13	12	Subsurface	PCB, Total	mg/kg	7.02E-01	2.44E-06	3.34E-06	2.76E-07
13	13	Subsurface	Cobalt-60	pCi/g	2.04E-02	7.09E-08		4.76E-12
13	14	Subsurface	Uranium-235	pCi/g	2.03E-01	7.06E-07		4.74E-11
13	14	Subsurface	Uranium-238	pCi/g	4.46E+00	1.55E-05		1.04E-09
14	1	Subsurface	Americium-241	pCi/g	1.06E+00	3.69E-06		2.48E-10
14	1	Subsurface	Antimony	mg/kg	6.30E-01	2.19E-06	1.07E-06	1.47E-10
14	1	Subsurface	Arsenic	mg/kg	1.13E+01	3.91E-05	1.15E-05	2.63E-09
14	1	Subsurface	Beryllium	mg/kg	6.84E-01	2.38E-06	1.63E-07	1.60E-10
14	1	Subsurface	Chromium	mg/kg	6.56E+01	2.28E-04	1.12E-04	1.53E-08
14	1	Subsurface	Cobalt-60	pCi/g	2.42E-02	8.41E-08		5.65E-12
14	1	Subsurface	Iron	mg/kg	4.24E+04	1.47E-01	7.22E-02	9.90E-06
14	1	Subsurface	Manganese	mg/kg	8.41E+02	2.92E-03	1.14E-03	1.96E-07
14	1	Subsurface	Neptunium-237	pCi/g	2.64E-01	9.18E-07		6.17E-11
14	1	Subsurface	Nickel	mg/kg	7.40E+02	2.57E-03	1.01E-03	1.73E-07
14	1	Subsurface	PCB, Total	mg/kg	5.00E-01	1.74E-06	2.38E-06	1.97E-07
14	1	Subsurface	Silver	mg/kg	1.67E+01	5.80E-05	2.27E-05	3.90E-09
14	1	Subsurface	Technetium-99	pCi/g	4.06E+02	1.41E-03		9.48E-08
14	1	Subsurface	Uranium	mg/kg	2.56E+02	8.91E-04	4.36E-04	5.99E-08
14	1	Subsurface	Uranium-235	pCi/g	1.99E-01	6.92E-07		4.65E-11
14	1	Subsurface	Uranium-238	pCi/g	6.24E+00	2.17E-05		1.46E-09
14	1	Subsurface	Vanadium	mg/kg	2.99E+01	1.04E-04	2.65E-05	6.99E-09
14	2	Subsurface	Aluminum	mg/kg	1.00E+04	3.48E-02	1.70E-02	2.34E-06
14	2	Subsurface	Antimony	mg/kg	3.51E+00	1.22E-05	5.96E-06	8.19E-10
14	2	Subsurface	Arsenic	mg/kg	1.47E+01	5.12E-05	1.50E-05	3.44E-09
14	2	Subsurface	Beryllium	mg/kg	6.75E-01	2.35E-06	1.61E-07	1.58E-10
14	2	Subsurface	Cadmium	mg/kg	1.75E+00	6.08E-06	5.96E-08	4.09E-10
14	2	Subsurface	Chromium	mg/kg	7.24E+01	2.51E-04	1.23E-04	1.69E-08
14	2	Subsurface	Copper	mg/kg	1.92E+02	6.68E-04	3.27E-04	4.49E-08
14	2	Subsurface	Iron	mg/kg	4.38E+04	1.52E-01	7.45E-02	1.02E-05
14	2	Subsurface	Manganese	mg/kg	1.51E+03	5.24E-03	2.05E-03	3.52E-07
14	2	Subsurface	Mercury	mg/kg	8.88E+00	3.09E-05	1.51E-05	6.18E-05
14	2	Subsurface	Neptunium-237	pCi/g	1.70E+00	5.90E-06		3.97E-10
14	2	Subsurface	Nickel	mg/kg	8.41E+02	2.92E-03	1.14E-03	1.96E-07
14	2	Subsurface	PCB, Total	mg/kg	5.00E+00	1.74E-05	2.38E-05	1.97E-06
14	2	Subsurface	Selenium	mg/kg	2.74E+01	9.52E-05	4.66E-05	6.40E-09
14	2	Subsurface	Silver	mg/kg	9.58E+00	3.33E-05	1.30E-05	2.24E-09
14	2	Subsurface	Thorium-230	pCi/g	7.70E+00	2.68E-05		1.80E-09
14	2	Subsurface	Total PAH	mg/kg	2.31E-01	8.03E-07	1.02E-06	3.99E-09
14	2	Subsurface	Uranium	mg/kg	3.64E+02	1.27E-03	6.20E-04	8.51E-08
14	2	Subsurface	Uranium-234	pCi/g	4.81E+01	1.67E-04		1.12E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	2	Subsurface	Uranium-235	pCi/g	3.41E+00	1.19E-05		7.96E-10
14	2	Subsurface	Uranium-238	pCi/g	8.96E+01	3.11E-04		2.09E-08
14	3	Subsurface	Arsenic	mg/kg	1.91E+01	6.62E-05	1.94E-05	4.45E-09
14	3	Subsurface	Beryllium	mg/kg	2.07E+00	7.20E-06	4.94E-07	4.84E-10
14	3	Subsurface	Chromium	mg/kg	7.01E+01	2.44E-04	1.19E-04	1.64E-08
14	3	Subsurface	Cobalt	mg/kg	1.63E+01	5.65E-05	2.77E-05	3.80E-09
14	3	Subsurface	Copper	mg/kg	1.30E+02	4.50E-04	2.21E-04	3.03E-08
14	3	Subsurface	Iron	mg/kg	4.64E+04	1.61E-01	7.90E-02	1.08E-05
14	3	Subsurface	Manganese	mg/kg	1.24E+03	4.30E-03	1.68E-03	2.89E-07
14	3	Subsurface	Mercury	mg/kg	7.48E+00	2.60E-05	1.27E-05	5.21E-05
14	3	Subsurface	Molybdenum	mg/kg	2.23E+01	7.76E-05	3.80E-05	5.21E-09
14	3	Subsurface	Neptunium-237	pCi/g	1.61E-01	5.60E-07		3.76E-11
14	3	Subsurface	Nickel	mg/kg	6.64E+02	2.31E-03	9.03E-04	1.55E-07
14	3	Subsurface	PCB, Total	mg/kg	8.75E+00	3.04E-05	4.17E-05	3.45E-06
14	3	Subsurface	Silver	mg/kg	1.34E+01	4.66E-05	1.83E-05	3.13E-09
14	3	Subsurface	Uranium	mg/kg	2.19E+02	7.60E-04	3.72E-04	5.11E-08
14	3	Subsurface	Uranium-234	pCi/g	4.43E+00	1.54E-05		1.03E-09
14	3	Subsurface	Uranium-235	pCi/g	2.46E-01	8.55E-07		5.75E-11
14	3	Subsurface	Uranium-238	pCi/g	1.08E+01	3.75E-05		2.52E-09
14	3	Subsurface	Vanadium	mg/kg	6.19E+01	2.15E-04	5.48E-05	1.45E-08
14	4	Subsurface	Aluminum	mg/kg	1.18E+04	4.09E-02	2.00E-02	2.75E-06
14	4	Subsurface	Antimony	mg/kg	3.29E+00	1.14E-05	5.59E-06	7.68E-10
14	4	Subsurface	Arsenic	mg/kg	1.24E+01	4.32E-05	1.27E-05	2.91E-09
14	4	Subsurface	Chromium	mg/kg	5.66E+01	1.97E-04	9.62E-05	1.32E-08
14	4	Subsurface	Cobalt	mg/kg	1.46E+01	5.08E-05	2.49E-05	3.41E-09
14	4	Subsurface	Copper	mg/kg	3.59E+02	1.25E-03	6.10E-04	8.38E-08
14	4	Subsurface	Iron	mg/kg	3.89E+04	1.35E-01	6.61E-02	9.07E-06
14	4	Subsurface	Manganese	mg/kg	9.96E+02	3.46E-03	1.36E-03	2.33E-07
14	4	Subsurface	Mercury	mg/kg	8.00E+00	2.78E-05	1.36E-05	5.57E-05
14	4	Subsurface	Neptunium-237	pCi/g	2.03E+00	7.06E-06		4.74E-10
14	4	Subsurface	Nickel	mg/kg	7.31E+02	2.54E-03	9.94E-04	1.71E-07
14	4	Subsurface	PCB, Total	mg/kg	8.28E+00	2.88E-05	3.95E-05	3.26E-06
14	4	Subsurface	Silver	mg/kg	1.17E+01	4.07E-05	1.59E-05	2.73E-09
14	4	Subsurface	Thorium-230	pCi/g	5.43E+00	1.89E-05		1.27E-09
14	4	Subsurface	Total PAH	mg/kg	1.89E-01	6.57E-07	8.36E-07	3.26E-09
14	4	Subsurface	Uranium	mg/kg	3.72E+02	1.29E-03	6.33E-04	8.68E-08
14	4	Subsurface	Uranium-234	pCi/g	8.61E+01	2.99E-04		2.01E-08
14	4	Subsurface	Uranium-235	pCi/g	6.10E+00	2.12E-05		1.43E-09
14	4	Subsurface	Uranium-238	pCi/g	1.29E+02	4.47E-04		3.00E-08
14	5	Subsurface	Antimony	mg/kg	1.60E+00	5.57E-06	2.73E-06	3.75E-10
14	5	Subsurface	Arsenic	mg/kg	1.27E+01	4.40E-05	1.29E-05	2.95E-09
14	5	Subsurface	Beryllium	mg/kg	7.93E-01	2.76E-06	1.89E-07	1.85E-10
14	5	Subsurface	Cadmium	mg/kg	2.59E+00	8.98E-06	8.80E-08	6.04E-10
14	5	Subsurface	Chromium	mg/kg	4.70E+01	1.63E-04	7.99E-05	1.10E-08
14	5	Subsurface	Cobalt	mg/kg	1.11E+01	3.85E-05	1.89E-05	2.59E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	5	Subsurface	Copper	mg/kg	1.34E+02	4.64E-04	2.27E-04	3.12E-08
14	5	Subsurface	Iron	mg/kg	3.93E+04	1.37E-01	6.70E-02	9.19E-06
14	5	Subsurface	Manganese	mg/kg	1.06E+03	3.68E-03	1.44E-03	2.47E-07
14	5	Subsurface	Mercury	mg/kg	1.09E+01	3.80E-05	1.86E-05	7.62E-05
14	5	Subsurface	Neptunium-237	pCi/g	1.74E+00	6.05E-06		4.06E-10
14	5	Subsurface	Nickel	mg/kg	4.63E+02	1.61E-03	6.30E-04	1.08E-07
14	5	Subsurface	PCB, Total	mg/kg	7.64E+00	2.65E-05	3.64E-05	3.01E-06
14	5	Subsurface	Silver	mg/kg	1.29E+01	4.47E-05	1.75E-05	3.01E-09
14	5	Subsurface	Technetium-99	pCi/g	7.80E+01	2.71E-04		1.82E-08
14	5	Subsurface	Thallium	mg/kg	3.52E-01	1.22E-06	5.99E-07	8.22E-11
14	5	Subsurface	Thorium-230	pCi/g	1.09E+01	3.78E-05		2.54E-09
14	5	Subsurface	Total PAH	mg/kg	9.48E-02	3.29E-07	4.19E-07	1.64E-09
14	5	Subsurface	Uranium	mg/kg	2.62E+02	9.12E-04	4.46E-04	6.13E-08
14	5	Subsurface	Uranium-234	pCi/g	4.03E+01	1.40E-04		9.41E-09
14	5	Subsurface	Uranium-235	pCi/g	2.57E+00	8.94E-06		6.01E-10
14	5	Subsurface	Uranium-238	pCi/g	7.26E+01	2.52E-04		1.70E-08
14	5	Subsurface	Vanadium	mg/kg	3.68E+01	1.28E-04	3.26E-05	8.60E-09
14	6	Subsurface	Antimony	mg/kg	2.13E+00	7.40E-06	3.62E-06	4.97E-10
14	6	Subsurface	Arsenic	mg/kg	1.05E+01	3.65E-05	1.07E-05	2.45E-09
14	6	Subsurface	Cadmium	mg/kg	6.57E-01	2.28E-06	2.24E-08	1.53E-10
14	6	Subsurface	Chromium	mg/kg	4.39E+02	1.53E-03	7.48E-04	1.03E-07
14	6	Subsurface	Copper	mg/kg	1.22E+02	4.25E-04	2.08E-04	2.86E-08
14	6	Subsurface	Manganese	mg/kg	6.55E+02	2.27E-03	8.91E-04	1.53E-07
14	6	Subsurface	Mercury	mg/kg	3.47E-01	1.21E-06	5.90E-07	2.42E-06
14	6	Subsurface	Neptunium-237	pCi/g	2.04E+00	7.08E-06		4.76E-10
14	6	Subsurface	Nickel	mg/kg	9.63E+02	3.35E-03	1.31E-03	2.25E-07
14	6	Subsurface	PCB, Total	mg/kg	5.00E+00	1.74E-05	2.38E-05	1.97E-06
14	6	Subsurface	Silver	mg/kg	1.47E+01	5.09E-05	1.99E-05	3.42E-09
14	6	Subsurface	Uranium	mg/kg	5.77E+02	2.00E-03	9.81E-04	1.35E-07
14	6	Subsurface	Uranium-234	pCi/g	2.59E+01	9.01E-05		6.05E-09
14	6	Subsurface	Uranium-235	pCi/g	1.79E+00	6.21E-06		4.17E-10
14	6	Subsurface	Uranium-238	pCi/g	4.11E+01	1.43E-04		9.60E-09
14	7	Subsurface	Antimony	mg/kg	6.02E-01	2.09E-06	1.02E-06	1.41E-10
14	7	Subsurface	Arsenic	mg/kg	1.12E+01	3.90E-05	1.15E-05	2.62E-09
14	7	Subsurface	Cadmium	mg/kg	2.11E+00	7.33E-06	7.18E-08	4.93E-10
14	7	Subsurface	Chromium	mg/kg	6.46E+01	2.24E-04	1.10E-04	1.51E-08
14	7	Subsurface	Manganese	mg/kg	5.99E+02	2.08E-03	8.16E-04	1.40E-07
14	7	Subsurface	Mercury	mg/kg	7.82E+00	2.72E-05	1.33E-05	5.44E-05
14	7	Subsurface	Neptunium-237	pCi/g	1.16E+00	4.04E-06		2.71E-10
14	7	Subsurface	Nickel	mg/kg	1.22E+03	4.25E-03	1.66E-03	2.86E-07
14	7	Subsurface	PCB, Total	mg/kg	7.60E+00	2.64E-05	3.62E-05	2.99E-06
14	7	Subsurface	Silver	mg/kg	1.63E+01	5.65E-05	2.21E-05	3.80E-09
14	7	Subsurface	Total PAH	mg/kg	4.88E-02	1.70E-07	2.16E-07	8.43E-10
14	7	Subsurface	Uranium	mg/kg	3.33E+02	1.16E-03	5.66E-04	7.78E-08
14	7	Subsurface	Uranium-234	pCi/g	9.86E+00	3.43E-05		2.30E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	7	Subsurface	Uranium-235	pCi/g	7.29E-01	2.53E-06		1.70E-10
14	7	Subsurface	Uranium-238	pCi/g	1.60E+01	5.57E-05		3.75E-09
14	8	Subsurface	Antimony	mg/kg	5.01E-01	1.74E-06	8.52E-07	1.17E-10
14	8	Subsurface	Arsenic	mg/kg	1.22E+01	4.23E-05	1.24E-05	2.84E-09
14	8	Subsurface	Chromium	mg/kg	5.14E+01	1.79E-04	8.75E-05	1.20E-08
14	8	Subsurface	Copper	mg/kg	1.17E+02	4.07E-04	1.99E-04	2.73E-08
14	8	Subsurface	Mercury	mg/kg	8.70E+00	3.02E-05	1.48E-05	6.06E-05
14	8	Subsurface	Neptunium-237	pCi/g	6.77E-01	2.35E-06		1.58E-10
14	8	Subsurface	Nickel	mg/kg	6.73E+02	2.34E-03	9.15E-04	1.57E-07
14	8	Subsurface	PCB, Total	mg/kg	5.00E+00	1.74E-05	2.38E-05	1.97E-06
14	8	Subsurface	Silver	mg/kg	1.18E+01	4.10E-05	1.61E-05	2.76E-09
14	8	Subsurface	Total PAH	mg/kg	4.13E-02	1.44E-07	1.83E-07	7.13E-10
14	8	Subsurface	Uranium	mg/kg	4.05E+02	1.41E-03	6.90E-04	9.47E-08
14	8	Subsurface	Uranium-235	pCi/g	1.61E-01	5.60E-07		3.76E-11
14	8	Subsurface	Uranium-238	pCi/g	3.97E+00	1.38E-05		9.27E-10
14	9	Subsurface	Antimony	mg/kg	2.00E+00	6.95E-06	3.40E-06	4.67E-10
14	9	Subsurface	Arsenic	mg/kg	1.39E+01	4.82E-05	1.42E-05	3.24E-09
14	9	Subsurface	Cadmium	mg/kg	9.40E-01	3.27E-06	3.20E-08	2.20E-10
14	9	Subsurface	Cesium-137	pCi/g	4.53E-01	1.57E-06		1.06E-10
14	9	Subsurface	Chromium	mg/kg	4.64E+01	1.61E-04	7.90E-05	1.08E-08
14	9	Subsurface	Mercury	mg/kg	1.13E+00	3.93E-06	1.92E-06	7.87E-06
14	9	Subsurface	Neptunium-237	pCi/g	1.09E+01	3.80E-05		2.55E-09
14	9	Subsurface	Nickel	mg/kg	9.43E+02	3.28E-03	1.28E-03	2.20E-07
14	9	Subsurface	PCB, Total	mg/kg	6.84E+00	2.38E-05	3.26E-05	2.69E-06
14	9	Subsurface	Technetium-99	pCi/g	1.96E+02	6.81E-04		4.58E-08
14	9	Subsurface	Total PAH	mg/kg	4.87E-01	1.69E-06	2.16E-06	8.42E-09
14	9	Subsurface	Uranium	mg/kg	1.46E+03	5.09E-03	2.49E-03	3.42E-07
14	9	Subsurface	Uranium-234	pCi/g	8.32E+02	2.89E-03		1.94E-07
14	9	Subsurface	Uranium-235	pCi/g	5.46E+01	1.90E-04		1.27E-08
14	9	Subsurface	Uranium-238	pCi/g	1.20E+03	4.17E-03		2.80E-07
14	10	Subsurface	Antimony	mg/kg	8.55E-01	2.97E-06	1.45E-06	2.00E-10
14	10	Subsurface	Arsenic	mg/kg	1.15E+01	4.00E-05	1.18E-05	2.69E-09
14	10	Subsurface	Barium	mg/kg	1.39E+02	4.83E-04	2.37E-04	3.25E-08
14	10	Subsurface	Chromium	mg/kg	4.47E+01	1.55E-04	7.61E-05	1.04E-08
14	10	Subsurface	Copper	mg/kg	1.37E+02	4.76E-04	2.33E-04	3.20E-08
14	10	Subsurface	Iron	mg/kg	2.69E+04	9.36E-02	4.58E-02	6.29E-06
14	10	Subsurface	Manganese	mg/kg	7.11E+02	2.47E-03	9.67E-04	1.66E-07
14	10	Subsurface	Mercury	mg/kg	2.49E+01	8.65E-05	4.24E-05	1.73E-04
14	10	Subsurface	Neptunium-237	pCi/g	2.05E+00	7.11E-06		4.78E-10
14	10	Subsurface	Nickel	mg/kg	5.80E+02	2.01E-03	7.89E-04	1.35E-07
14	10	Subsurface	PCB, Total	mg/kg	9.32E+00	3.24E-05	4.44E-05	3.67E-06
14	10	Subsurface	Silver	mg/kg	1.07E+01	3.72E-05	1.46E-05	2.50E-09
14	10	Subsurface	Total PAH	mg/kg	2.10E-01	7.30E-07	9.29E-07	3.63E-09
14	10	Subsurface	Uranium	mg/kg	2.80E+02	9.71E-04	4.76E-04	6.53E-08
14	10	Subsurface	Uranium-234	pCi/g	1.92E+01	6.67E-05		4.48E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	10	Subsurface	Uranium-235	pCi/g	1.40E+00	4.86E-06		3.27E-10
14	10	Subsurface	Uranium-238	pCi/g	2.68E+01	9.33E-05		6.27E-09
15	1	Subsurface	Antimony	mg/kg	6.40E-01	2.22E-06	1.09E-06	1.49E-10
15	1	Subsurface	Arsenic	mg/kg	1.33E+01	4.61E-05	1.35E-05	3.10E-09
15	1	Subsurface	Chromium	mg/kg	5.61E+01	1.95E-04	9.55E-05	1.31E-08
15	1	Subsurface	Copper	mg/kg	1.41E+02	4.90E-04	2.40E-04	3.29E-08
15	1	Subsurface	Iron	mg/kg	2.97E+04	1.03E-01	5.06E-02	6.94E-06
15	1	Subsurface	Manganese	mg/kg	6.01E+02	2.09E-03	8.19E-04	1.40E-07
15	1	Subsurface	Nickel	mg/kg	1.33E+02	4.63E-04	1.81E-04	3.11E-08
15	1	Subsurface	PCB, Total	mg/kg	7.80E-02	2.71E-07	3.72E-07	3.07E-08
15	1	Subsurface	Silver	mg/kg	1.23E+01	4.27E-05	1.67E-05	2.87E-09
15	1	Subsurface	Technetium-99	pCi/g	1.06E+02	3.69E-04		2.48E-08
15	1	Subsurface	Thallium	mg/kg	6.10E-01	2.12E-06	1.04E-06	1.42E-10
15	1	Subsurface	Total PAH	mg/kg	1.16E+00	4.02E-06	5.11E-06	2.00E-08
15	1	Subsurface	Uranium	mg/kg	3.05E+01	1.06E-04	5.19E-05	7.12E-09
15	1	Subsurface	Uranium-238	pCi/g	1.30E+00	4.50E-06		3.02E-10
15	2	Subsurface	Aluminum	mg/kg	1.68E+04	5.84E-02	2.86E-02	3.92E-06
15	2	Subsurface	Antimony	mg/kg	6.60E-01	2.29E-06	1.12E-06	1.54E-10
15	2	Subsurface	Arsenic	mg/kg	1.63E+01	5.65E-05	1.66E-05	3.80E-09
15	2	Subsurface	Cadmium	mg/kg	1.58E+00	5.49E-06	5.38E-08	3.69E-10
15	2	Subsurface	Chromium	mg/kg	5.90E+01	2.05E-04	1.00E-04	1.38E-08
15	2	Subsurface	Iron	mg/kg	3.89E+04	1.35E-01	6.62E-02	9.08E-06
15	2	Subsurface	Manganese	mg/kg	1.37E+03	4.76E-03	1.87E-03	3.20E-07
15	2	Subsurface	Mercury	mg/kg	9.33E+00	3.24E-05	1.59E-05	6.50E-05
15	2	Subsurface	Neptunium-237	pCi/g	5.56E-01	1.93E-06		1.30E-10
15	2	Subsurface	Nickel	mg/kg	3.75E+02	1.30E-03	5.10E-04	8.75E-08
15	2	Subsurface	PCB, Total	mg/kg	3.30E-01	1.15E-06	1.57E-06	1.30E-07
15	2	Subsurface	Silver	mg/kg	1.06E+01	3.69E-05	1.45E-05	2.48E-09
15	2	Subsurface	Total PAH	mg/kg	2.11E+00	7.33E-06	9.33E-06	3.64E-08
15	2	Subsurface	Uranium	mg/kg	1.32E+02	4.58E-04	2.24E-04	3.08E-08
15	2	Subsurface	Uranium-234	pCi/g	6.51E+00	2.26E-05		1.52E-09
15	2	Subsurface	Uranium-235	pCi/g	3.80E-01	1.32E-06		8.88E-11
15	2	Subsurface	Uranium-238	pCi/g	1.21E+01	4.21E-05		2.83E-09
15	2	Subsurface	Vanadium	mg/kg	3.72E+01	1.29E-04	3.29E-05	8.69E-09
15	3	Subsurface	Antimony	mg/kg	1.65E+01	5.75E-05	2.81E-05	3.86E-09
15	3	Subsurface	Arsenic	mg/kg	3.65E+01	1.27E-04	3.73E-05	8.53E-09
15	3	Subsurface	Beryllium	mg/kg	5.63E-01	1.96E-06	1.34E-07	1.32E-10
15	3	Subsurface	Cadmium	mg/kg	7.30E+00	2.54E-05	2.49E-07	1.71E-09
15	3	Subsurface	Chromium	mg/kg	8.13E+01	2.83E-04	1.38E-04	1.90E-08
15	3	Subsurface	Cobalt	mg/kg	2.37E+01	8.24E-05	4.03E-05	5.54E-09
15	3	Subsurface	Copper	mg/kg	1.39E+03	4.84E-03	2.37E-03	3.26E-07
15	3	Subsurface	Iron	mg/kg	9.52E+04	3.31E-01	1.62E-01	2.22E-05
15	3	Subsurface	Manganese	mg/kg	1.62E+03	5.62E-03	2.20E-03	3.78E-07
15	3	Subsurface	Mercury	mg/kg	1.22E+01	4.25E-05	2.08E-05	8.52E-05
15	3	Subsurface	Molybdenum	mg/kg	2.05E+01	7.11E-05	3.48E-05	4.78E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	3	Subsurface	Neptunium-237	pCi/g	4.06E+00	1.41E-05		9.49E-10
15	3	Subsurface	Nickel	mg/kg	7.57E+02	2.63E-03	1.03E-03	1.77E-07
15	3	Subsurface	PCB, Total	mg/kg	1.00E+01	3.48E-05	4.76E-05	3.94E-06
15	3	Subsurface	Selenium	mg/kg	2.61E+01	9.05E-05	4.43E-05	6.08E-09
15	3	Subsurface	Silver	mg/kg	1.16E+01	4.03E-05	1.58E-05	2.71E-09
15	3	Subsurface	Technetium-99	pCi/g	2.08E+02	7.24E-04		4.87E-08
15	3	Subsurface	Thorium-230	pCi/g	4.61E+00	1.60E-05		1.08E-09
15	3	Subsurface	Total PAH	mg/kg	9.85E-01	3.42E-06	4.36E-06	1.70E-08
15	3	Subsurface	Uranium	mg/kg	2.16E+02	7.51E-04	3.68E-04	5.05E-08
15	3	Subsurface	Uranium-234	pCi/g	6.91E+01	2.40E-04		1.61E-08
15	3	Subsurface	Uranium-235	pCi/g	4.21E+00	1.46E-05		9.83E-10
15	3	Subsurface	Uranium-238	pCi/g	9.57E+01	3.32E-04		2.23E-08
15	3	Subsurface	Zinc	mg/kg	8.98E+02	3.12E-03	1.53E-03	2.10E-07
15	4	Subsurface	Antimony	mg/kg	7.40E+00	2.57E-05	1.26E-05	1.73E-09
15	4	Subsurface	Arsenic	mg/kg	3.46E+01	1.20E-04	3.54E-05	8.09E-09
15	4	Subsurface	Cadmium	mg/kg	1.57E+00	5.46E-06	5.34E-08	3.67E-10
15	4	Subsurface	Chromium	mg/kg	9.79E+01	3.40E-04	1.67E-04	2.29E-08
15	4	Subsurface	Copper	mg/kg	7.05E+02	2.45E-03	1.20E-03	1.65E-07
15	4	Subsurface	Iron	mg/kg	7.81E+04	2.71E-01	1.33E-01	1.82E-05
15	4	Subsurface	Manganese	mg/kg	1.54E+03	5.34E-03	2.09E-03	3.59E-07
15	4	Subsurface	Mercury	mg/kg	1.53E+01	5.31E-05	2.60E-05	1.06E-04
15	4	Subsurface	Neptunium-237	pCi/g	4.31E-01	1.50E-06		1.01E-10
15	4	Subsurface	Nickel	mg/kg	1.37E+03	4.78E-03	1.87E-03	3.21E-07
15	4	Subsurface	PCB, Total	mg/kg	2.67E+01	9.29E-05	1.27E-04	1.05E-05
15	4	Subsurface	Silver	mg/kg	1.80E+01	6.25E-05	2.45E-05	4.20E-09
15	4	Subsurface	Thallium	mg/kg	3.70E-01	1.29E-06	6.30E-07	8.64E-11
15	4	Subsurface	Total PAH	mg/kg	1.47E+00	5.10E-06	6.49E-06	2.53E-08
15	4	Subsurface	Uranium	mg/kg	1.57E+02	5.44E-04	2.66E-04	3.66E-08
15	4	Subsurface	Uranium-234	pCi/g	6.26E+00	2.18E-05		1.46E-09
15	4	Subsurface	Uranium-235	pCi/g	2.22E-01	7.72E-07		5.19E-11
15	4	Subsurface	Uranium-238	pCi/g	1.06E+01	3.69E-05		2.48E-09
15	4	Subsurface	Zinc	mg/kg	1.19E+03	4.13E-03	2.02E-03	2.78E-07
15	5	Subsurface	Aluminum	mg/kg	9.61E+03	3.34E-02	1.63E-02	2.24E-06
15	5	Subsurface	Antimony	mg/kg	2.04E+00	7.08E-06	3.47E-06	4.76E-10
15	5	Subsurface	Arsenic	mg/kg	1.33E+01	4.62E-05	1.36E-05	3.10E-09
15	5	Subsurface	Cadmium	mg/kg	9.30E-01	3.23E-06	3.16E-08	2.17E-10
15	5	Subsurface	Chromium	mg/kg	6.58E+01	2.29E-04	1.12E-04	1.54E-08
15	5	Subsurface	Copper	mg/kg	5.63E+03	1.96E-02	9.58E-03	1.32E-06
15	5	Subsurface	Iron	mg/kg	2.31E+04	8.01E-02	3.92E-02	5.38E-06
15	5	Subsurface	Manganese	mg/kg	7.03E+02	2.44E-03	9.57E-04	1.64E-07
15	5	Subsurface	Mercury	mg/kg	1.06E+01	3.69E-05	1.81E-05	7.40E-05
15	5	Subsurface	Neptunium-237	pCi/g	5.30E-01	1.84E-06		1.24E-10
15	5	Subsurface	Nickel	mg/kg	3.48E+02	1.21E-03	4.74E-04	8.13E-08
15	5	Subsurface	PCB, Total	mg/kg	2.50E+01	8.68E-05	1.19E-04	9.84E-06
15	5	Subsurface	Silver	mg/kg	1.53E+01	5.32E-05	2.08E-05	3.58E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	5	Subsurface	Technetium-99	pCi/g	1.07E+02	3.72E-04		2.50E-08
15	5	Subsurface	Total PAH	mg/kg	3.31E-01	1.15E-06	1.46E-06	5.72E-09
15	5	Subsurface	Uranium	mg/kg	2.42E+02	8.42E-04	4.12E-04	5.66E-08
15	5	Subsurface	Uranium-234	pCi/g	3.90E+00	1.36E-05		9.11E-10
15	5	Subsurface	Uranium-235	pCi/g	3.62E-01	1.26E-06		8.46E-11
15	5	Subsurface	Uranium-238	pCi/g	8.14E+00	2.83E-05		1.90E-09
15	5	Subsurface	Zinc	mg/kg	1.53E+03	5.30E-03	2.59E-03	3.56E-07
15	6	Subsurface	Antimony	mg/kg	4.00E+00	1.39E-05	6.80E-06	9.34E-10
15	6	Subsurface	Arsenic	mg/kg	1.20E+01	4.18E-05	1.23E-05	2.81E-09
15	6	Subsurface	Cadmium	mg/kg	1.16E+00	4.04E-06	3.95E-08	2.71E-10
15	6	Subsurface	Chromium	mg/kg	5.80E+01	2.01E-04	9.86E-05	1.35E-08
15	6	Subsurface	Cobalt	mg/kg	1.13E+01	3.92E-05	1.92E-05	2.64E-09
15	6	Subsurface	Copper	mg/kg	4.28E+02	1.49E-03	7.28E-04	1.00E-07
15	6	Subsurface	Iron	mg/kg	3.15E+04	1.10E-01	5.37E-02	7.37E-06
15	6	Subsurface	Manganese	mg/kg	6.96E+02	2.42E-03	9.48E-04	1.63E-07
15	6	Subsurface	Mercury	mg/kg	7.83E+00	2.72E-05	1.33E-05	5.45E-05
15	6	Subsurface	Neptunium-237	pCi/g	4.93E-01	1.71E-06		1.15E-10
15	6	Subsurface	Nickel	mg/kg	3.24E+02	1.13E-03	4.41E-04	7.57E-08
15	6	Subsurface	PCB, Total	mg/kg	6.17E+00	2.14E-05	2.94E-05	2.43E-06
15	6	Subsurface	Silver	mg/kg	1.09E+01	3.79E-05	1.49E-05	2.55E-09
15	6	Subsurface	Total PAH	mg/kg	1.25E+00	4.34E-06	5.53E-06	2.16E-08
15	6	Subsurface	Uranium	mg/kg	6.26E+01	2.17E-04	1.06E-04	1.46E-08
15	6	Subsurface	Uranium-234	pCi/g	6.91E+00	2.40E-05		1.61E-09
15	6	Subsurface	Uranium-235	pCi/g	4.48E-01	1.56E-06		1.05E-10
15	6	Subsurface	Uranium-238	pCi/g	1.21E+01	4.19E-05		2.81E-09
15	7	Subsurface	Aluminum	mg/kg	1.13E+04	3.91E-02	1.92E-02	2.63E-06
15	7	Subsurface	Antimony	mg/kg	6.72E-01	2.34E-06	1.14E-06	1.57E-10
15	7	Subsurface	Arsenic	mg/kg	1.61E+01	5.61E-05	1.65E-05	3.77E-09
15	7	Subsurface	Barium	mg/kg	1.44E+02	4.99E-04	2.44E-04	3.35E-08
15	7	Subsurface	Beryllium	mg/kg	6.61E-01	2.30E-06	1.57E-07	1.54E-10
15	7	Subsurface	Cadmium	mg/kg	6.52E-01	2.27E-06	2.22E-08	1.52E-10
15	7	Subsurface	Chromium	mg/kg	6.54E+01	2.27E-04	1.11E-04	1.53E-08
15	7	Subsurface	Copper	mg/kg	7.55E+02	2.62E-03	1.29E-03	1.76E-07
15	7	Subsurface	Iron	mg/kg	3.55E+04	1.24E-01	6.05E-02	8.30E-06
15	7	Subsurface	Manganese	mg/kg	1.09E+03	3.80E-03	1.49E-03	2.56E-07
15	7	Subsurface	Neptunium-237	pCi/g	1.71E-01	5.94E-07		3.99E-11
15	7	Subsurface	Nickel	mg/kg	5.59E+02	1.94E-03	7.60E-04	1.30E-07
15	7	Subsurface	PCB, Total	mg/kg	2.55E+01	8.88E-05	1.22E-04	1.01E-05
15	7	Subsurface	Silver	mg/kg	1.29E+01	4.47E-05	1.75E-05	3.00E-09
15	7	Subsurface	Total PAH	mg/kg	1.24E-01	4.31E-07	5.49E-07	2.14E-09
15	7	Subsurface	Uranium	mg/kg	5.34E+01	1.86E-04	9.09E-05	1.25E-08
15	7	Subsurface	Uranium-234	pCi/g	4.27E+00	1.49E-05		9.98E-10
15	7	Subsurface	Uranium-235	pCi/g	2.96E-01	1.03E-06		6.91E-11
15	7	Subsurface	Uranium-238	pCi/g	6.39E+00	2.22E-05		1.49E-09
15	7	Subsurface	Zinc	mg/kg	5.85E+02	2.03E-03	9.95E-04	1.37E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	8	Subsurface	Antimony	mg/kg	3.64E+00	1.27E-05	6.19E-06	8.50E-10
15	8	Subsurface	Arsenic	mg/kg	1.14E+01	3.97E-05	1.17E-05	2.67E-09
15	8	Subsurface	Chromium	mg/kg	7.53E+01	2.62E-04	1.28E-04	1.76E-08
15	8	Subsurface	Copper	mg/kg	1.66E+02	5.77E-04	2.82E-04	3.88E-08
15	8	Subsurface	Iron	mg/kg	2.83E+04	9.82E-02	4.81E-02	6.60E-06
15	8	Subsurface	Manganese	mg/kg	6.13E+02	2.13E-03	8.35E-04	1.43E-07
15	8	Subsurface	Mercury	mg/kg	1.00E+01	3.49E-05	1.71E-05	6.99E-05
15	8	Subsurface	Neptunium-237	pCi/g	2.83E-01	9.84E-07		6.61E-11
15	8	Subsurface	Nickel	mg/kg	1.82E+02	6.34E-04	2.48E-04	4.26E-08
15	8	Subsurface	PCB, Total	mg/kg	4.90E+00	1.70E-05	2.33E-05	1.93E-06
15	8	Subsurface	Silver	mg/kg	1.42E+01	4.95E-05	1.94E-05	3.33E-09
15	8	Subsurface	Total PAH	mg/kg	2.80E-01	9.73E-07	1.24E-06	4.84E-09
15	8	Subsurface	Uranium	mg/kg	4.46E+01	1.55E-04	7.58E-05	1.04E-08
15	8	Subsurface	Uranium-235	pCi/g	2.02E-01	7.02E-07		4.72E-11
15	8	Subsurface	Uranium-238	pCi/g	4.52E+00	1.57E-05		1.06E-09
15	9	Subsurface	Arsenic	mg/kg	1.27E+01	4.40E-05	1.29E-05	2.95E-09
15	9	Subsurface	Chromium	mg/kg	8.92E+01	3.10E-04	1.52E-04	2.08E-08
15	9	Subsurface	Copper	mg/kg	1.36E+02	4.72E-04	2.31E-04	3.17E-08
15	9	Subsurface	Iron	mg/kg	3.02E+04	1.05E-01	5.14E-02	7.05E-06
15	9	Subsurface	Manganese	mg/kg	1.57E+03	5.44E-03	2.13E-03	3.66E-07
15	9	Subsurface	Mercury	mg/kg	6.54E+00	2.27E-05	1.11E-05	4.55E-05
15	9	Subsurface	Neptunium-237	pCi/g	9.93E-02	3.45E-07		2.32E-11
15	9	Subsurface	Nickel	mg/kg	1.49E+02	5.19E-04	2.03E-04	3.48E-08
15	9	Subsurface	PCB, Total	mg/kg	3.30E-01	1.15E-06	1.57E-06	1.30E-07
15	9	Subsurface	Silver	mg/kg	1.54E+01	5.36E-05	2.10E-05	3.60E-09
15	9	Subsurface	Total PAH	mg/kg	1.85E-01	6.43E-07	8.18E-07	3.20E-09
15	9	Subsurface	Uranium	mg/kg	3.07E+01	1.07E-04	5.22E-05	7.16E-09
15	9	Subsurface	Uranium-235	pCi/g	1.63E-01	5.67E-07		3.81E-11
15	9	Subsurface	Uranium-238	pCi/g	4.68E+00	1.63E-05		1.09E-09
15	10	Subsurface	Arsenic	mg/kg	9.74E+00	3.39E-05	9.95E-06	2.28E-09
15	10	Subsurface	Chromium	mg/kg	6.29E+01	2.19E-04	1.07E-04	1.47E-08
15	10	Subsurface	Mercury	mg/kg	7.84E+00	2.72E-05	1.33E-05	5.46E-05
15	10	Subsurface	Nickel	mg/kg	1.60E+02	5.57E-04	2.18E-04	3.75E-08
15	10	Subsurface	Silver	mg/kg	1.08E+01	3.76E-05	1.47E-05	2.52E-09
15	10	Subsurface	Total PAH	mg/kg	8.65E-02	3.01E-07	3.83E-07	1.49E-09
15	10	Subsurface	Uranium	mg/kg	6.42E+01	2.23E-04	1.09E-04	1.50E-08
16	1	Subsurface	Barium	mg/kg	1.28E+02	4.45E-04	2.18E-04	2.99E-08
16	1	Subsurface	Beryllium	mg/kg	6.21E-01	2.16E-06	1.48E-07	1.45E-10
16	1	Subsurface	Cesium-137	pCi/g	1.10E+00	3.82E-06		2.57E-10
16	1	Subsurface	Nickel	mg/kg	1.80E+01	6.25E-05	2.45E-05	4.20E-09
16	1	Subsurface	PCB, Total	mg/kg	9.60E-02	3.34E-07	4.57E-07	3.78E-08
16	1	Subsurface	Total PAH	mg/kg	2.72E-02	9.45E-08	1.20E-07	4.70E-10
16	2	Subsurface	Arsenic	mg/kg	8.72E+00	3.03E-05	8.90E-06	2.04E-09
16	2	Subsurface	Beryllium	mg/kg	6.88E-01	2.39E-06	1.64E-07	1.61E-10
16	2	Subsurface	Chromium	mg/kg	5.03E+01	1.75E-04	8.56E-05	1.18E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
16	2	Subsurface	Nickel	mg/kg	7.56E+01	2.63E-04	1.03E-04	1.77E-08
16	2	Subsurface	PCB, Total	mg/kg	1.30E-01	4.52E-07	6.19E-07	5.12E-08
16	2	Subsurface	Silver	mg/kg	1.02E+01	3.53E-05	1.38E-05	2.37E-09
16	3	Subsurface	Aluminum	mg/kg	1.03E+04	3.60E-02	1.76E-02	2.42E-06
16	3	Subsurface	Arsenic	mg/kg	8.62E+00	3.00E-05	8.80E-06	2.01E-09
16	3	Subsurface	Barium	mg/kg	1.51E+02	5.26E-04	2.58E-04	3.54E-08
16	3	Subsurface	Beryllium	mg/kg	6.15E-01	2.14E-06	1.47E-07	1.44E-10
16	3	Subsurface	Chromium	mg/kg	4.66E+01	1.62E-04	7.94E-05	1.09E-08
16	3	Subsurface	Manganese	mg/kg	7.84E+02	2.73E-03	1.07E-03	1.83E-07
16	3	Subsurface	Nickel	mg/kg	7.09E+01	2.46E-04	9.65E-05	1.66E-08
16	3	Subsurface	PCB, Total	mg/kg	1.37E+00	4.76E-06	6.53E-06	5.39E-07
16	4	Subsurface	Aluminum	mg/kg	1.01E+04	3.52E-02	1.73E-02	2.37E-06
16	4	Subsurface	Cesium-137	pCi/g	3.66E+01	1.27E-04		8.54E-09
16	4	Subsurface	Cobalt-60	pCi/g	8.53E-03	2.96E-08		1.99E-12
16	4	Subsurface	Neptunium-237	pCi/g	7.12E+00	2.47E-05		1.66E-09
16	4	Subsurface	Nickel	mg/kg	8.94E+01	3.11E-04	1.22E-04	2.09E-08
16	4	Subsurface	PCB, Total	mg/kg	4.29E-01	1.49E-06	2.04E-06	1.69E-07
16	4	Subsurface	Technetium-99	pCi/g	3.55E+02	1.23E-03		8.29E-08
16	4	Subsurface	Thorium-230	pCi/g	5.29E+00	1.84E-05		1.24E-09
16	4	Subsurface	Total PAH	mg/kg	2.05E+00	7.11E-06	9.05E-06	3.53E-08
16	4	Subsurface	Uranium-234	pCi/g	1.19E+02	4.14E-04		2.78E-08
16	4	Subsurface	Uranium-235	pCi/g	8.23E+00	2.86E-05		1.92E-09
16	4	Subsurface	Uranium-238	pCi/g	2.70E+02	9.38E-04		6.31E-08
19	1	Subsurface	Arsenic	mg/kg	1.01E+01	3.51E-05	1.03E-05	2.36E-09
19	1	Subsurface	Beryllium	mg/kg	1.40E+00	4.87E-06	3.34E-07	3.27E-10
19	1	Subsurface	Cadmium	mg/kg	5.70E+00	1.98E-05	1.94E-07	1.33E-09
19	1	Subsurface	Cobalt	mg/kg	1.35E+01	4.69E-05	2.30E-05	3.15E-09
19	1	Subsurface	Copper	mg/kg	1.80E+03	6.26E-03	3.06E-03	4.20E-07
19	1	Subsurface	Nickel	mg/kg	4.38E+02	1.52E-03	5.96E-04	1.02E-07
19	1	Subsurface	Thallium	mg/kg	9.80E-01	3.41E-06	1.67E-06	2.29E-10
19	1	Subsurface	Total PAH	mg/kg	5.23E+00	1.82E-05	2.31E-05	9.03E-08
19	1	Subsurface	Uranium	mg/kg	1.64E+02	5.70E-04	2.79E-04	3.83E-08
19	1	Subsurface	Uranium-234	pCi/g	2.77E+01	9.63E-05		6.47E-09
19	1	Subsurface	Uranium-235	pCi/g	1.30E+00	4.52E-06		3.04E-10
19	1	Subsurface	Uranium-238	pCi/g	3.06E+01	1.06E-04		7.15E-09
19	1	Subsurface	Vanadium	mg/kg	3.83E+01	1.33E-04	3.39E-05	8.95E-09
26	1	Subsurface	Aluminum	mg/kg	1.11E+04	3.87E-02	1.89E-02	2.60E-06
26	1	Subsurface	Antimony	mg/kg	8.00E-01	2.78E-06	1.36E-06	1.87E-10
26	1	Subsurface	Arsenic	mg/kg	1.06E+01	3.67E-05	1.08E-05	2.47E-09
26	1	Subsurface	Beryllium	mg/kg	6.51E+00	2.26E-05	1.55E-06	1.52E-09
26	1	Subsurface	Cadmium	mg/kg	2.09E+00	7.25E-06	7.10E-08	4.87E-10
26	1	Subsurface	Cesium-137	pCi/g	1.76E+00	6.13E-06		4.12E-10
26	1	Subsurface	Cobalt	mg/kg	8.55E+00	2.97E-05	1.45E-05	2.00E-09
26	1	Subsurface	Cobalt-60	pCi/g	3.99E-03	1.39E-08		9.32E-13
26	1	Subsurface	Manganese	mg/kg	6.46E+02	2.24E-03	8.79E-04	1.51E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
26	1	Subsurface	Mercury	mg/kg	6.78E+00	2.36E-05	1.15E-05	4.72E-05
26	1	Subsurface	Neptunium-237	pCi/g	2.50E-01	8.69E-07		5.84E-11
26	1	Subsurface	Nickel	mg/kg	9.66E+01	3.36E-04	1.31E-04	2.26E-08
26	1	Subsurface	PCB, Total	mg/kg	2.53E+00	8.79E-06	1.21E-05	9.96E-07
26	1	Subsurface	Plutonium-239/240	pCi/g	3.50E+00	1.22E-05		8.17E-10
26	1	Subsurface	Silver	mg/kg	8.48E+00	2.95E-05	1.15E-05	1.98E-09
26	1	Subsurface	Thallium	mg/kg	4.10E-01	1.42E-06	6.98E-07	9.58E-11
26	1	Subsurface	Thorium-230	pCi/g	4.03E+00	1.40E-05		9.41E-10
26	1	Subsurface	Total PAH	mg/kg	1.74E-01	6.05E-07	7.71E-07	3.01E-09
26	1	Subsurface	Trichloroethene	mg/kg	1.19E-02	4.14E-08	1.01E-07	1.53E-06
26	1	Subsurface	Uranium	mg/kg	1.38E+02	4.78E-04	2.34E-04	3.21E-08
26	1	Subsurface	Uranium-234	pCi/g	4.29E+00	1.49E-05		1.00E-09
26	1	Subsurface	Uranium-235	pCi/g	5.84E-01	2.03E-06		1.36E-10
26	1	Subsurface	Uranium-238	pCi/g	3.14E+01	1.09E-04		7.32E-09
26	2	Subsurface	Aluminum	mg/kg	1.68E+04	5.84E-02	2.86E-02	3.92E-06
26	2	Subsurface	Antimony	mg/kg	1.00E+00	3.48E-06	1.70E-06	2.34E-10
26	2	Subsurface	Arsenic	mg/kg	1.91E+01	6.65E-05	1.95E-05	4.47E-09
26	2	Subsurface	Barium	mg/kg	1.50E+02	5.20E-04	2.54E-04	3.49E-08
26	2	Subsurface	Beryllium	mg/kg	8.44E+00	2.93E-05	2.01E-06	1.97E-09
26	2	Subsurface	Cadmium	mg/kg	1.55E+00	5.39E-06	5.27E-08	3.62E-10
26	2	Subsurface	Cesium-137	pCi/g	4.86E+00	1.69E-05		1.13E-09
26	2	Subsurface	Chromium	mg/kg	5.99E+01	2.08E-04	1.02E-04	1.40E-08
26	2	Subsurface	Cobalt	mg/kg	2.91E+01	1.01E-04	4.96E-05	6.81E-09
26	2	Subsurface	Copper	mg/kg	7.33E+01	2.55E-04	1.25E-04	1.71E-08
26	2	Subsurface	Iron	mg/kg	2.65E+04	9.20E-02	4.50E-02	6.18E-06
26	2	Subsurface	Manganese	mg/kg	6.80E+02	2.36E-03	9.25E-04	1.59E-07
26	2	Subsurface	Mercury	mg/kg	8.92E+00	3.10E-05	1.52E-05	6.21E-05
26	2	Subsurface	Neptunium-237	pCi/g	8.30E-01	2.88E-06		1.94E-10
26	2	Subsurface	Nickel	mg/kg	7.35E+01	2.55E-04	1.00E-04	1.72E-08
26	2	Subsurface	PCB, Total	mg/kg	3.58E+00	1.24E-05	1.71E-05	1.41E-06
26	2	Subsurface	Silver	mg/kg	7.82E+00	2.72E-05	1.06E-05	1.83E-09
26	2	Subsurface	Thallium	mg/kg	8.91E+00	3.10E-05	1.52E-05	2.08E-09
26	2	Subsurface	Thorium-230	pCi/g	1.27E+01	4.40E-05		2.96E-09
26	2	Subsurface	Total PAH	mg/kg	2.30E-02	7.99E-08	1.02E-07	3.97E-10
26	2	Subsurface	Uranium	mg/kg	2.51E+02	8.73E-04	4.27E-04	5.87E-08
26	2	Subsurface	Uranium-234	pCi/g	1.57E+01	5.46E-05		3.67E-09
26	2	Subsurface	Uranium-235	pCi/g	1.41E+00	4.91E-06		3.30E-10
26	2	Subsurface	Uranium-238	pCi/g	4.22E+01	1.47E-04		9.86E-09
26	2	Subsurface	Vanadium	mg/kg	2.94E+01	1.02E-04	2.60E-05	6.86E-09
26	3	Subsurface	Aluminum	mg/kg	1.01E+04	3.52E-02	1.72E-02	2.36E-06
26	3	Subsurface	Antimony	mg/kg	1.40E+00	4.87E-06	2.38E-06	3.27E-10
26	3	Subsurface	Arsenic	mg/kg	4.16E+01	1.45E-04	4.25E-05	9.72E-09
26	3	Subsurface	Barium	mg/kg	3.84E+02	1.33E-03	6.53E-04	8.96E-08
26	3	Subsurface	Beryllium	mg/kg	3.86E+00	1.34E-05	9.19E-07	9.01E-10
26	3	Subsurface	Cadmium	mg/kg	2.34E+00	8.13E-06	7.96E-08	5.47E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
26	3	Subsurface	Cesium-137	pCi/g	6.01E-01	2.09E-06		1.40E-10
26	3	Subsurface	Chromium	mg/kg	3.51E+01	1.22E-04	5.97E-05	8.20E-09
26	3	Subsurface	Cobalt	mg/kg	1.02E+01	3.53E-05	1.73E-05	2.37E-09
26	3	Subsurface	Iron	mg/kg	1.47E+04	5.11E-02	2.50E-02	3.43E-06
26	3	Subsurface	Manganese	mg/kg	4.16E+02	1.45E-03	5.67E-04	9.72E-08
26	3	Subsurface	Mercury	mg/kg	4.13E+00	1.44E-05	7.03E-06	2.88E-05
26	3	Subsurface	Naphthalene	mg/kg	1.05E+00	3.64E-06	8.90E-06	8.14E-06
26	3	Subsurface	Neptunium-237	pCi/g	7.30E-01	2.54E-06		1.71E-10
26	3	Subsurface	Nickel	mg/kg	4.80E+01	1.67E-04	6.53E-05	1.12E-08
26	3	Subsurface	PCB, Total	mg/kg	1.88E+00	6.52E-06	8.93E-06	7.38E-07
26	3	Subsurface	Silver	mg/kg	2.15E+01	7.47E-05	2.93E-05	5.02E-09
26	3	Subsurface	Technetium-99	pCi/g	8.75E+01	3.04E-04		2.04E-08
26	3	Subsurface	Thallium	mg/kg	6.00E-01	2.09E-06	1.02E-06	1.40E-10
26	3	Subsurface	Thorium-230	pCi/g	9.57E+00	3.33E-05		2.24E-09
26	3	Subsurface	Total PAH	mg/kg	1.01E+00	3.50E-06	4.46E-06	1.74E-08
26	3	Subsurface	Uranium	mg/kg	9.12E+01	3.17E-04	1.55E-04	2.13E-08
26	3	Subsurface	Uranium-234	pCi/g	4.05E+01	1.41E-04		9.45E-09
26	3	Subsurface	Uranium-235	pCi/g	1.48E+00	5.13E-06		3.45E-10
26	3	Subsurface	Uranium-238	pCi/g	4.53E+01	1.57E-04		1.06E-08
26	3	Subsurface	Vanadium	mg/kg	3.41E+01	1.19E-04	3.02E-05	7.97E-09
26	4	Subsurface	Aluminum	mg/kg	1.24E+04	4.29E-02	2.10E-02	2.89E-06
26	4	Subsurface	Americium-241	pCi/g	1.17E+00	4.08E-06		2.74E-10
26	4	Subsurface	Antimony	mg/kg	1.90E+00	6.60E-06	3.23E-06	4.44E-10
26	4	Subsurface	Arsenic	mg/kg	1.21E+01	4.20E-05	1.23E-05	2.82E-09
26	4	Subsurface	Beryllium	mg/kg	7.63E-01	2.65E-06	1.82E-07	1.78E-10
26	4	Subsurface	Cadmium	mg/kg	1.99E+00	6.93E-06	6.78E-08	4.66E-10
26	4	Subsurface	Cesium-137	pCi/g	5.73E-01	1.99E-06		1.34E-10
26	4	Subsurface	Chromium	mg/kg	1.35E+02	4.70E-04	2.30E-04	3.16E-08
26	4	Subsurface	Cobalt	mg/kg	1.04E+01	3.61E-05	1.77E-05	2.43E-09
26	4	Subsurface	Cobalt-60	pCi/g	3.09E-03	1.07E-08		7.22E-13
26	4	Subsurface	Copper	mg/kg	1.87E+03	6.49E-03	3.18E-03	4.36E-07
26	4	Subsurface	Iron	mg/kg	2.04E+04	7.09E-02	3.47E-02	4.76E-06
26	4	Subsurface	Manganese	mg/kg	6.69E+02	2.32E-03	9.10E-04	1.56E-07
26	4	Subsurface	Mercury	mg/kg	6.75E+00	2.34E-05	1.15E-05	4.70E-05
26	4	Subsurface	Neptunium-237	pCi/g	1.20E+01	4.17E-05		2.80E-09
26	4	Subsurface	Nickel	mg/kg	4.41E+03	1.53E-02	6.00E-03	1.03E-06
26	4	Subsurface	PCB, Total	mg/kg	5.62E-01	1.95E-06	2.68E-06	2.21E-07
26	4	Subsurface	Plutonium-239/240	pCi/g	4.40E+00	1.53E-05		1.03E-09
26	4	Subsurface	Silver	mg/kg	4.12E+00	1.43E-05	5.61E-06	9.62E-10
26	4	Subsurface	Technetium-99	pCi/g	4.65E+02	1.62E-03		1.09E-07
26	4	Subsurface	Thorium-230	pCi/g	2.84E+01	9.87E-05		6.63E-09
26	4	Subsurface	Total PAH	mg/kg	4.15E-01	1.44E-06	1.84E-06	7.17E-09
26	4	Subsurface	Uranium	mg/kg	8.05E+02	2.80E-03	1.37E-03	1.88E-07
26	4	Subsurface	Uranium-234	pCi/g	1.13E+02	3.92E-04		2.63E-08
26	4	Subsurface	Uranium-235	pCi/g	7.85E+00	2.73E-05		1.83E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
26	4	Subsurface	Uranium-238	pCi/g	3.27E+02	1.14E-03		7.64E-08
26	4	Subsurface	Vanadium	mg/kg	3.42E+01	1.19E-04	3.02E-05	7.98E-09
27	1	Subsurface	Cobalt-60	pCi/g	1.01E-02	3.51E-08		2.36E-12
27	1	Subsurface	Nickel	mg/kg	3.97E+01	1.38E-04	5.40E-05	9.27E-09
27	1	Subsurface	PCB, Total	mg/kg	7.20E-02	2.50E-07	3.43E-07	2.84E-08
47	1	Subsurface	Aluminum	mg/kg	1.55E+04	5.39E-02	2.64E-02	3.62E-06
47	1	Subsurface	Antimony	mg/kg	9.00E-01	3.13E-06	1.53E-06	2.10E-10
47	1	Subsurface	Arsenic	mg/kg	4.52E+01	1.57E-04	4.61E-05	1.06E-08
47	1	Subsurface	Beryllium	mg/kg	7.00E-01	2.43E-06	1.67E-07	1.63E-10
47	1	Subsurface	Cadmium	mg/kg	1.28E+01	4.45E-05	4.36E-07	2.99E-09
47	1	Subsurface	Chromium	mg/kg	5.39E+01	1.87E-04	9.17E-05	1.26E-08
47	1	Subsurface	Cobalt	mg/kg	1.69E+01	5.87E-05	2.88E-05	3.95E-09
47	1	Subsurface	Iron	mg/kg	2.95E+04	1.03E-01	5.02E-02	6.89E-06
47	1	Subsurface	Manganese	mg/kg	1.69E+03	5.87E-03	2.30E-03	3.95E-07
47	1	Subsurface	Naphthalene	mg/kg	1.90E+00	6.60E-06	1.62E-05	1.48E-05
47	1	Subsurface	Neptunium-237	pCi/g	1.46E-01	5.07E-07		3.41E-11
47	1	Subsurface	Nickel	mg/kg	8.25E+01	2.87E-04	1.12E-04	1.93E-08
47	1	Subsurface	PCB, Total	mg/kg	9.60E-01	3.34E-06	4.57E-06	3.78E-07
47	1	Subsurface	Plutonium-239/240	pCi/g	4.19E+00	1.46E-05		9.79E-10
47	1	Subsurface	Pyrene	mg/kg	1.11E+02	3.84E-04	4.89E-04	1.70E-05
47	1	Subsurface	Thorium-230	pCi/g	5.45E+01	1.89E-04		1.27E-08
47	1	Subsurface	Total PAH	mg/kg	5.41E+01	1.88E-04	2.39E-04	9.34E-07
47	1	Subsurface	trans-1,2-Dichloroethene	mg/kg	2.50E+00	8.69E-06	2.13E-05	2.76E-04
47	1	Subsurface	Trichloroethene	mg/kg	1.40E+00	4.87E-06	1.19E-05	1.79E-04
47	1	Subsurface	Uranium	mg/kg	4.17E+01	1.45E-04	7.10E-05	9.74E-09
47	1	Subsurface	Uranium-234	pCi/g	8.10E+00	2.82E-05		1.89E-09
47	1	Subsurface	Uranium-235	pCi/g	5.00E-01	1.74E-06		1.17E-10
47	1	Subsurface	Uranium-238	pCi/g	8.21E+00	2.85E-05		1.92E-09
74	1	Subsurface	Cesium-137	pCi/g	4.80E-01	1.67E-06		1.12E-10
74	1	Subsurface	PCB, Total	mg/kg	2.97E+00	1.03E-05	1.42E-05	1.17E-06
74	1	Subsurface	Total PAH	mg/kg	3.16E+00	1.10E-05	1.40E-05	5.46E-08
74	1	Subsurface	Uranium-234	pCi/g	7.55E+00	2.62E-05		1.76E-09
74	1	Subsurface	Uranium-238	pCi/g	3.85E+01	1.34E-04		8.99E-09
75	1	Subsurface	Arsenic	mg/kg	1.68E+01	5.85E-05	1.72E-05	3.93E-09
75	1	Subsurface	Cadmium	mg/kg	1.10E+00	3.82E-06	3.74E-08	2.57E-10
75	1	Subsurface	Chromium	mg/kg	7.17E+01	2.49E-04	1.22E-04	1.68E-08
75	1	Subsurface	Copper	mg/kg	3.15E+02	1.09E-03	5.36E-04	7.36E-08
75	1	Subsurface	Iron	mg/kg	4.42E+04	1.54E-01	7.52E-02	1.03E-05
75	1	Subsurface	Nickel	mg/kg	8.87E+01	3.08E-04	1.21E-04	2.07E-08
75	1	Subsurface	PCB, Total	mg/kg	2.30E-01	7.99E-07	1.10E-06	9.06E-08
75	1	Subsurface	Total PAH	mg/kg	2.21E-01	7.69E-07	9.79E-07	3.82E-09
76	1	Subsurface	Arsenic	mg/kg	1.31E+01	4.55E-05	1.34E-05	3.06E-09
76	1	Subsurface	Barium	mg/kg	2.69E+02	9.35E-04	4.58E-04	6.28E-08
76	1	Subsurface	Mercury	mg/kg	7.45E+00	2.59E-05	1.27E-05	5.19E-05
76	1	Subsurface	PCB, Total	mg/kg	2.60E-01	9.04E-07	1.24E-06	1.02E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
76	1	Subsurface	Total PAH	mg/kg	1.76E+00	6.11E-06	7.78E-06	3.04E-08
76	1	Subsurface	Uranium-238	pCi/g	1.45E+00	5.04E-06		3.39E-10
78	1	Subsurface	Aluminum	mg/kg	1.49E+04	5.18E-02	2.54E-02	3.48E-06
78	1	Subsurface	Barium	mg/kg	1.77E+02	6.15E-04	3.01E-04	4.13E-08
78	1	Subsurface	Cadmium	mg/kg	2.36E+00	8.20E-06	8.03E-08	5.51E-10
78	1	Subsurface	Cobalt	mg/kg	1.61E+01	5.60E-05	2.74E-05	3.76E-09
78	1	Subsurface	Cobalt-60	pCi/g	5.91E-03	2.05E-08		1.38E-12
78	1	Subsurface	Manganese	mg/kg	1.47E+03	5.11E-03	2.00E-03	3.43E-07
78	1	Subsurface	Naphthalene	mg/kg	1.60E+01	5.56E-05	1.36E-04	1.25E-04
78	1	Subsurface	PCB, Total	mg/kg	1.20E+01	4.17E-05	5.72E-05	4.73E-06
78	1	Subsurface	Total PAH	mg/kg	3.91E+01	1.36E-04	1.73E-04	6.76E-07
78	1	Subsurface	Uranium-235	pCi/g	2.64E-01	9.18E-07		6.17E-11
78	1	Subsurface	Uranium-238	pCi/g	5.29E+00	1.84E-05		1.24E-09
80	1	Subsurface	Americium-241	pCi/g	6.40E+00	2.22E-05		1.49E-09
80	1	Subsurface	Antimony	mg/kg	9.10E-01	3.16E-06	1.55E-06	2.13E-10
80	1	Subsurface	Arsenic	mg/kg	1.01E+01	3.50E-05	1.03E-05	2.35E-09
80	1	Subsurface	Beryllium	mg/kg	7.80E-01	2.71E-06	1.86E-07	1.82E-10
80	1	Subsurface	Chromium	mg/kg	1.65E+02	5.73E-04	2.81E-04	3.85E-08
80	1	Subsurface	Mercury	mg/kg	4.50E-01	1.56E-06	7.66E-07	3.13E-06
80	1	Subsurface	Neptunium-237	pCi/g	5.05E-01	1.76E-06		1.18E-10
80	1	Subsurface	PCB, Total	mg/kg	4.31E+01	1.50E-04	2.05E-04	1.70E-05
80	1	Subsurface	Thorium-230	pCi/g	4.40E+00	1.53E-05		1.03E-09
80	1	Subsurface	Total PAH	mg/kg	1.42E-01	4.92E-07	6.27E-07	2.45E-09
80	1	Subsurface	Uranium	mg/kg	5.72E+03	1.99E-02	9.74E-03	1.34E-06
80	1	Subsurface	Uranium-234	pCi/g	2.29E+02	7.96E-04		5.35E-08
80	1	Subsurface	Uranium-235	pCi/g	3.00E+01	1.04E-04		7.01E-09
80	1	Subsurface	Uranium-238	pCi/g	1.92E+03	6.68E-03		4.49E-07
81	1	Subsurface	Aluminum	mg/kg	9.55E+03	3.32E-02	1.62E-02	2.23E-06
81	1	Subsurface	Arsenic	mg/kg	1.11E+01	3.86E-05	1.13E-05	2.59E-09
81	1	Subsurface	Beryllium	mg/kg	6.98E-01	2.43E-06	1.66E-07	1.63E-10
81	1	Subsurface	Chromium	mg/kg	6.38E+01	2.22E-04	1.09E-04	1.49E-08
81	1	Subsurface	Cobalt	mg/kg	1.58E+01	5.49E-05	2.69E-05	3.69E-09
81	1	Subsurface	Manganese	mg/kg	1.12E+03	3.90E-03	1.53E-03	2.62E-07
81	1	Subsurface	Mercury	mg/kg	8.33E+00	2.90E-05	1.42E-05	5.80E-05
81	1	Subsurface	Nickel	mg/kg	7.50E+01	2.61E-04	1.02E-04	1.75E-08
81	1	Subsurface	PCB, Total	mg/kg	1.60E+02	5.55E-04	7.61E-04	6.29E-05
81	1	Subsurface	Silver	mg/kg	2.70E+00	9.38E-06	3.68E-06	6.31E-10
81	1	Subsurface	Thallium	mg/kg	3.49E-01	1.21E-06	5.94E-07	8.15E-11
81	1	Subsurface	Total PAH	mg/kg	4.95E-01	1.72E-06	2.19E-06	8.55E-09
81	1	Subsurface	Uranium	mg/kg	6.50E+03	2.26E-02	1.11E-02	1.52E-06
81	1	Subsurface	Uranium-238	pCi/g	2.29E+00	7.94E-06		5.34E-10
99	1	Subsurface	Aluminum	mg/kg	1.16E+04	4.05E-02	1.98E-02	2.72E-06
99	1	Subsurface	Arsenic	mg/kg	9.94E+00	3.45E-05	1.01E-05	2.32E-09
99	1	Subsurface	Barium	mg/kg	1.35E+02	4.69E-04	2.30E-04	3.15E-08
99	1	Subsurface	Beryllium	mg/kg	7.22E-01	2.51E-06	1.72E-07	1.69E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
99	1	Subsurface	Chromium	mg/kg	6.29E+01	2.18E-04	1.07E-04	1.47E-08
99	1	Subsurface	Cobalt-60	pCi/g	1.19E-02	4.14E-08		2.78E-12
99	1	Subsurface	Manganese	mg/kg	6.28E+02	2.18E-03	8.55E-04	1.47E-07
99	1	Subsurface	Mercury	mg/kg	9.53E+00	3.31E-05	1.62E-05	6.64E-05
99	1	Subsurface	Nickel	mg/kg	8.52E+01	2.96E-04	1.16E-04	1.99E-08
99	1	Subsurface	Silver	mg/kg	1.03E+01	3.58E-05	1.40E-05	2.41E-09
99	1	Subsurface	Uranium	mg/kg	1.61E+01	5.59E-05	2.74E-05	3.76E-09
99	1	Subsurface	Uranium-238	pCi/g	9.45E-01	3.28E-06		2.21E-10
99	2	Subsurface	Chromium	mg/kg	4.57E+01	1.59E-04	7.78E-05	1.07E-08
135	1	Subsurface	PCB, Total	mg/kg	3.60E+02	1.25E-03	1.72E-03	1.42E-04
138	1	Subsurface	Aluminum	mg/kg	1.08E+04	3.74E-02	1.83E-02	2.51E-06
138	1	Subsurface	Antimony	mg/kg	4.55E+00	1.58E-05	7.75E-06	1.06E-09
138	1	Subsurface	Arsenic	mg/kg	1.08E+01	3.74E-05	1.10E-05	2.52E-09
138	1	Subsurface	Barium	mg/kg	1.99E+02	6.91E-04	3.38E-04	4.64E-08
138	1	Subsurface	Beryllium	mg/kg	6.28E-01	2.18E-06	1.50E-07	1.47E-10
138	1	Subsurface	Cadmium	mg/kg	4.87E+00	1.69E-05	1.66E-07	1.14E-09
138	1	Subsurface	Chromium	mg/kg	5.65E+01	1.97E-04	9.62E-05	1.32E-08
138	1	Subsurface	Cobalt	mg/kg	9.18E+00	3.19E-05	1.56E-05	2.15E-09
138	1	Subsurface	Iron	mg/kg	1.99E+04	6.91E-02	3.38E-02	4.64E-06
138	1	Subsurface	Manganese	mg/kg	6.55E+02	2.28E-03	8.92E-04	1.53E-07
138	1	Subsurface	Mercury	mg/kg	1.46E+01	5.06E-05	2.48E-05	1.01E-04
138	1	Subsurface	Nickel	mg/kg	7.71E+01	2.68E-04	1.05E-04	1.80E-08
138	1	Subsurface	PCB, Total	mg/kg	5.00E-01	1.74E-06	2.38E-06	1.97E-07
138	1	Subsurface	Silver	mg/kg	1.01E+01	3.51E-05	1.37E-05	2.36E-09
138	1	Subsurface	Thallium	mg/kg	6.20E-01	2.15E-06	1.05E-06	1.45E-10
138	1	Subsurface	Total PAH	mg/kg	9.74E-02	3.39E-07	4.31E-07	1.68E-09
138	1	Subsurface	Vanadium	mg/kg	2.99E+01	1.04E-04	2.64E-05	6.98E-09
138	2	Subsurface	Arsenic	mg/kg	1.03E+01	3.59E-05	1.05E-05	2.41E-09
138	2	Subsurface	Cadmium	mg/kg	5.00E-01	1.74E-06	1.70E-08	1.17E-10
138	2	Subsurface	Chromium	mg/kg	6.28E+01	2.18E-04	1.07E-04	1.47E-08
138	2	Subsurface	Mercury	mg/kg	8.30E+00	2.88E-05	1.41E-05	5.78E-05
138	2	Subsurface	Nickel	mg/kg	9.60E+01	3.34E-04	1.31E-04	2.24E-08
138	2	Subsurface	PCB, Total	mg/kg	9.20E-02	3.20E-07	4.38E-07	3.62E-08
138	2	Subsurface	Silver	mg/kg	1.53E+01	5.32E-05	2.08E-05	3.57E-09
138	2	Subsurface	Thallium	mg/kg	2.90E-01	1.01E-06	4.93E-07	6.77E-11
138	2	Subsurface	Total PAH	mg/kg	3.84E-02	1.33E-07	1.70E-07	6.63E-10
153	1	Subsurface	Arsenic	mg/kg	9.92E+00	3.45E-05	1.01E-05	2.32E-09
153	1	Subsurface	Chromium	mg/kg	6.59E+01	2.29E-04	1.12E-04	1.54E-08
153	1	Subsurface	Manganese	mg/kg	5.73E+02	1.99E-03	7.80E-04	1.34E-07
153	1	Subsurface	Nickel	mg/kg	7.83E+01	2.72E-04	1.07E-04	1.83E-08
153	1	Subsurface	PCB, Total	mg/kg	6.00E-01	2.09E-06	2.86E-06	2.36E-07
153	1	Subsurface	Silver	mg/kg	1.32E+01	4.58E-05	1.79E-05	3.08E-09
153	1	Subsurface	Total PAH	mg/kg	7.31E-02	2.54E-07	3.23E-07	1.26E-09
154	1	Subsurface	Arsenic	mg/kg	1.52E+01	5.27E-05	1.55E-05	3.54E-09
154	1	Subsurface	Chromium	mg/kg	7.21E+01	2.51E-04	1.23E-04	1.68E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
154	1	Subsurface	Manganese	mg/kg	1.02E+03	3.53E-03	1.38E-03	2.38E-07
154	1	Subsurface	Nickel	mg/kg	9.89E+01	3.44E-04	1.35E-04	2.31E-08
154	1	Subsurface	PCB, Total	mg/kg	3.20E+00	1.11E-05	1.52E-05	1.26E-06
154	1	Subsurface	Total PAH	mg/kg	1.04E+00	3.62E-06	4.60E-06	1.80E-08
154	1	Subsurface	Uranium	mg/kg	3.82E+01	1.33E-04	6.50E-05	8.92E-09
154	1	Subsurface	Uranium-238	pCi/g	3.06E+00	1.06E-05		7.15E-10
154	2	Subsurface	PCB, Total	mg/kg	4.00E-01	1.39E-06	1.91E-06	1.58E-07
155	1	Subsurface	Antimony	mg/kg	3.65E+00	1.27E-05	6.22E-06	8.53E-10
155	1	Subsurface	Arsenic	mg/kg	9.01E+00	3.13E-05	9.20E-06	2.10E-09
155	1	Subsurface	Neptunium-237	pCi/g	1.03E-01	3.58E-07		2.41E-11
155	1	Subsurface	Nickel	mg/kg	7.65E+01	2.66E-04	1.04E-04	1.79E-08
155	1	Subsurface	PCB, Total	mg/kg	9.20E+00	3.20E-05	4.38E-05	3.62E-06
155	1	Subsurface	Silver	mg/kg	1.11E+01	3.85E-05	1.51E-05	2.59E-09
156	1	Subsurface	Arsenic	mg/kg	1.11E+01	3.86E-05	1.13E-05	2.59E-09
156	1	Subsurface	Beryllium	mg/kg	1.00E+00	3.48E-06	2.38E-07	2.34E-10
156	1	Subsurface	Chromium	mg/kg	6.31E+01	2.19E-04	1.07E-04	1.47E-08
156	1	Subsurface	Cobalt	mg/kg	1.72E+01	5.98E-05	2.93E-05	4.02E-09
156	1	Subsurface	Manganese	mg/kg	2.83E+03	9.85E-03	3.86E-03	6.62E-07
156	1	Subsurface	Mercury	mg/kg	9.87E+00	3.43E-05	1.68E-05	6.87E-05
156	1	Subsurface	Nickel	mg/kg	6.16E+01	2.14E-04	8.39E-05	1.44E-08
156	1	Subsurface	PCB, Total	mg/kg	3.00E-01	1.04E-06	1.43E-06	1.18E-07
156	1	Subsurface	Silver	mg/kg	1.19E+01	4.14E-05	1.62E-05	2.78E-09
156	1	Subsurface	Total PAH	mg/kg	8.26E-02	2.87E-07	3.65E-07	1.43E-09
156	1	Subsurface	Uranium	mg/kg	2.32E+01	8.06E-05	3.95E-05	5.42E-09
156	1	Subsurface	Uranium-238	pCi/g	2.19E+00	7.61E-06		5.12E-10
158	1	Subsurface	Antimony	mg/kg	4.90E-01	1.70E-06	8.34E-07	1.14E-10
158	1	Subsurface	Arsenic	mg/kg	9.51E+00	3.31E-05	9.71E-06	2.22E-09
158	1	Subsurface	Barium	mg/kg	1.64E+02	5.71E-04	2.80E-04	3.84E-08
158	1	Subsurface	Beryllium	mg/kg	5.69E-01	1.98E-06	1.36E-07	1.33E-10
158	1	Subsurface	Chromium	mg/kg	5.11E+01	1.78E-04	8.70E-05	1.19E-08
158	1	Subsurface	Cobalt	mg/kg	1.26E+01	4.36E-05	2.14E-05	2.93E-09
158	1	Subsurface	Manganese	mg/kg	1.04E+03	3.63E-03	1.42E-03	2.44E-07
158	1	Subsurface	Mercury	mg/kg	1.05E+01	3.64E-05	1.78E-05	7.28E-05
158	1	Subsurface	Neptunium-237	pCi/g	5.96E-02	2.07E-07		1.39E-11
158	1	Subsurface	Nickel	mg/kg	8.12E+01	2.82E-04	1.11E-04	1.90E-08
158	1	Subsurface	Silver	mg/kg	1.01E+01	3.50E-05	1.37E-05	2.35E-09
158	1	Subsurface	Thallium	mg/kg	3.69E-01	1.28E-06	6.28E-07	8.62E-11
158	1	Subsurface	Total PAH	mg/kg	4.78E-01	1.66E-06	2.12E-06	8.26E-09
158	1	Subsurface	Uranium	mg/kg	2.03E+01	7.06E-05	3.45E-05	4.74E-09
158	1	Subsurface	Uranium-235	pCi/g	1.40E-01	4.87E-07		3.27E-11
158	1	Subsurface	Uranium-238	pCi/g	3.16E+00	1.10E-05		7.38E-10
160	1	Subsurface	Antimony	mg/kg	6.80E-01	2.36E-06	1.16E-06	1.59E-10
160	1	Subsurface	Arsenic	mg/kg	8.22E+00	2.86E-05	8.39E-06	1.92E-09
160	1	Subsurface	Chromium	mg/kg	4.63E+01	1.61E-04	7.87E-05	1.08E-08
160	1	Subsurface	Silver	mg/kg	1.13E+01	3.91E-05	1.53E-05	2.63E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
160	1	Subsurface	Total PAH	mg/kg	1.02E-01	3.55E-07	4.52E-07	1.76E-09
163	1	Subsurface	Arsenic	mg/kg	1.00E+01	3.48E-05	1.02E-05	2.34E-09
163	1	Subsurface	Chromium	mg/kg	5.89E+01	2.05E-04	1.00E-04	1.38E-08
163	1	Subsurface	Mercury	mg/kg	7.53E+00	2.62E-05	1.28E-05	5.24E-05
163	1	Subsurface	Nickel	mg/kg	7.54E+01	2.62E-04	1.03E-04	1.76E-08
163	1	Subsurface	Silver	mg/kg	1.05E+01	3.66E-05	1.43E-05	2.46E-09
163	1	Subsurface	Total PAH	mg/kg	1.07E-01	3.72E-07	4.73E-07	1.85E-09
163	1	Subsurface	Vanadium	mg/kg	3.21E+01	1.12E-04	2.84E-05	7.50E-09
165	1	Subsurface	Aluminum	mg/kg	8.41E+03	2.92E-02	1.43E-02	1.96E-06
165	1	Subsurface	Antimony	mg/kg	2.20E+00	7.65E-06	3.74E-06	5.14E-10
165	1	Subsurface	Arsenic	mg/kg	6.37E+01	2.21E-04	6.50E-05	1.49E-08
165	1	Subsurface	Barium	mg/kg	5.25E+02	1.82E-03	8.93E-04	1.23E-07
165	1	Subsurface	Beryllium	mg/kg	8.14E-01	2.83E-06	1.94E-07	1.90E-10
165	1	Subsurface	Cesium-137	pCi/g	3.47E+00	1.21E-05		8.11E-10
165	1	Subsurface	Chromium	mg/kg	3.61E+01	1.25E-04	6.14E-05	8.42E-09
165	1	Subsurface	Cobalt	mg/kg	8.44E+00	2.93E-05	1.44E-05	1.97E-09
165	1	Subsurface	Mercury	mg/kg	3.77E-01	1.31E-06	6.41E-07	2.62E-06
165	1	Subsurface	Naphthalene	mg/kg	1.51E+00	5.23E-06	1.28E-05	1.17E-05
165	1	Subsurface	Neptunium-237	pCi/g	4.26E-01	1.48E-06		9.95E-11
165	1	Subsurface	Nickel	mg/kg	3.36E+01	1.17E-04	4.57E-05	7.84E-09
165	1	Subsurface	PCB, Total	mg/kg	9.89E+00	3.44E-05	4.71E-05	3.89E-06
165	1	Subsurface	Plutonium-239/240	pCi/g	2.81E+00	9.75E-06		6.55E-10
165	1	Subsurface	Silver	mg/kg	3.09E+01	1.07E-04	4.21E-05	7.22E-09
165	1	Subsurface	Thorium-230	pCi/g	6.02E+00	2.09E-05		1.41E-09
165	1	Subsurface	Total PAH	mg/kg	1.87E+00	6.49E-06	8.27E-06	3.23E-08
165	1	Subsurface	Uranium	mg/kg	1.08E+02	3.74E-04	1.83E-04	2.51E-08
165	1	Subsurface	Uranium-234	pCi/g	5.76E+01	2.00E-04		1.35E-08
165	1	Subsurface	Uranium-235	pCi/g	2.06E+00	7.16E-06		4.81E-10
165	1	Subsurface	Uranium-238	pCi/g	6.42E+01	2.23E-04		1.50E-08
169	1	Subsurface	Aluminum	mg/kg	2.06E+04	7.16E-02	3.51E-02	4.81E-06
169	1	Subsurface	Antimony	mg/kg	1.30E+00	4.52E-06	2.21E-06	3.04E-10
169	1	Subsurface	Arsenic	mg/kg	2.03E+01	7.06E-05	2.07E-05	4.74E-09
169	1	Subsurface	Barium	mg/kg	2.81E+02	9.77E-04	4.78E-04	6.56E-08
169	1	Subsurface	Beryllium	mg/kg	2.30E+00	7.99E-06	5.48E-07	5.37E-10
169	1	Subsurface	Chromium	mg/kg	2.15E+02	7.47E-04	3.66E-04	5.02E-08
169	1	Subsurface	Cobalt	mg/kg	7.80E+01	2.71E-04	1.33E-04	1.82E-08
169	1	Subsurface	Cobalt-60	pCi/g	7.40E-03	2.57E-08		1.73E-12
169	1	Subsurface	Copper	mg/kg	4.28E+02	1.49E-03	7.28E-04	1.00E-07
169	1	Subsurface	Iron	mg/kg	4.16E+04	1.44E-01	7.07E-02	9.71E-06
169	1	Subsurface	Manganese	mg/kg	1.58E+03	5.49E-03	2.15E-03	3.69E-07
169	1	Subsurface	Mercury	mg/kg	7.87E+00	2.74E-05	1.34E-05	5.48E-05
169	1	Subsurface	Nickel	mg/kg	8.04E+02	2.79E-03	1.09E-03	1.88E-07
169	1	Subsurface	PCB, Total	mg/kg	1.00E+01	3.48E-05	4.76E-05	3.94E-06
169	1	Subsurface	Thallium	mg/kg	4.60E-01	1.60E-06	7.83E-07	1.07E-10
169	1	Subsurface	Total PAH	mg/kg	4.59E+00	1.59E-05	2.03E-05	7.92E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
169	1	Subsurface	Uranium	mg/kg	5.03E+01	1.75E-04	8.56E-05	1.18E-08
169	1	Subsurface	Uranium-234	pCi/g	6.55E+00	2.28E-05		1.53E-09
169	1	Subsurface	Uranium-235	pCi/g	4.60E-01	1.60E-06		1.07E-10
169	1	Subsurface	Uranium-238	pCi/g	8.12E+00	2.82E-05		1.90E-09
169	1	Subsurface	Vanadium	mg/kg	4.49E+01	1.56E-04	3.97E-05	1.05E-08
170	1	Subsurface	Cesium-137	pCi/g	3.35E-01	1.16E-06		7.82E-11
170	1	Subsurface	Cobalt-60	pCi/g	9.50E-03	3.30E-08		2.22E-12
170	1	Subsurface	Neptunium-237	pCi/g	1.15E-01	4.00E-07		2.69E-11
170	1	Subsurface	Uranium-238	pCi/g	2.55E+00	8.86E-06		5.96E-10
176	1	Subsurface	Arsenic	mg/kg	4.86E+01	1.69E-04	4.96E-05	1.13E-08
176	1	Subsurface	Chromium	mg/kg	6.11E+01	2.12E-04	1.04E-04	1.43E-08
176	1	Subsurface	Nickel	mg/kg	1.07E+02	3.72E-04	1.46E-04	2.50E-08
176	1	Subsurface	Thallium	mg/kg	4.50E-01	1.56E-06	7.66E-07	1.05E-10
176	1	Subsurface	Uranium	mg/kg	2.21E+01	7.68E-05	3.76E-05	5.16E-09
177	1	Subsurface	Arsenic	mg/kg	9.50E+00	3.30E-05	9.70E-06	2.22E-09
177	1	Subsurface	Chromium	mg/kg	6.62E+01	2.30E-04	1.13E-04	1.55E-08
177	1	Subsurface	Manganese	mg/kg	9.58E+02	3.33E-03	1.30E-03	2.24E-07
177	1	Subsurface	Mercury	mg/kg	1.05E+01	3.66E-05	1.79E-05	7.34E-05
177	1	Subsurface	Nickel	mg/kg	8.47E+01	2.94E-04	1.15E-04	1.98E-08
177	1	Subsurface	Silver	mg/kg	1.44E+01	5.01E-05	1.96E-05	3.37E-09
177	1	Subsurface	Thallium	mg/kg	4.00E-01	1.39E-06	6.81E-07	9.34E-11
180	1	Subsurface	Antimony	mg/kg	5.97E-01	2.07E-06	1.02E-06	1.39E-10
180	1	Subsurface	Arsenic	mg/kg	7.57E+01	2.63E-04	7.73E-05	1.77E-08
180	1	Subsurface	Beryllium	mg/kg	6.25E-01	2.17E-06	1.49E-07	1.46E-10
180	1	Subsurface	Chromium	mg/kg	6.34E+01	2.20E-04	1.08E-04	1.48E-08
180	1	Subsurface	Cobalt	mg/kg	1.37E+01	4.77E-05	2.33E-05	3.20E-09
180	1	Subsurface	Manganese	mg/kg	8.24E+02	2.86E-03	1.12E-03	1.92E-07
180	1	Subsurface	Mercury	mg/kg	8.28E+00	2.88E-05	1.41E-05	5.76E-05
180	1	Subsurface	Nickel	mg/kg	9.03E+01	3.14E-04	1.23E-04	2.11E-08
180	1	Subsurface	Silver	mg/kg	1.17E+01	4.06E-05	1.59E-05	2.73E-09
180	1	Subsurface	Thallium	mg/kg	4.73E-01	1.64E-06	8.05E-07	1.10E-10
180	2	Subsurface	Antimony	mg/kg	4.58E-01	1.59E-06	7.79E-07	1.07E-10
180	2	Subsurface	Arsenic	mg/kg	1.17E+01	4.06E-05	1.19E-05	2.73E-09
180	2	Subsurface	Chromium	mg/kg	6.02E+01	2.09E-04	1.02E-04	1.41E-08
180	2	Subsurface	Manganese	mg/kg	6.72E+02	2.34E-03	9.15E-04	1.57E-07
180	2	Subsurface	Mercury	mg/kg	8.25E+00	2.87E-05	1.40E-05	5.74E-05
180	2	Subsurface	Nickel	mg/kg	8.64E+01	3.00E-04	1.18E-04	2.02E-08
180	2	Subsurface	Total PAH	mg/kg	9.19E-02	3.19E-07	4.06E-07	1.59E-09
180	3	Subsurface	Arsenic	mg/kg	1.36E+01	4.73E-05	1.39E-05	3.18E-09
180	3	Subsurface	Beryllium	mg/kg	5.03E-01	1.75E-06	1.20E-07	1.17E-10
180	3	Subsurface	Chromium	mg/kg	5.44E+01	1.89E-04	9.25E-05	1.27E-08
180	3	Subsurface	Manganese	mg/kg	5.12E+02	1.78E-03	6.97E-04	1.20E-07
180	3	Subsurface	Nickel	mg/kg	7.17E+01	2.49E-04	9.76E-05	1.67E-08
180	3	Subsurface	Silver	mg/kg	1.14E+01	3.96E-05	1.55E-05	2.66E-09
180	3	Subsurface	Vanadium	mg/kg	2.87E+01	9.96E-05	2.54E-05	6.70E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
180	4	Subsurface	Arsenic	mg/kg	1.11E+01	3.85E-05	1.13E-05	2.59E-09
180	4	Subsurface	Barium	mg/kg	1.63E+02	5.65E-04	2.77E-04	3.80E-08
180	4	Subsurface	Beryllium	mg/kg	1.14E+00	3.96E-06	2.72E-07	2.66E-10
180	4	Subsurface	Chromium	mg/kg	6.00E+01	2.09E-04	1.02E-04	1.40E-08
180	4	Subsurface	Cobalt	mg/kg	9.68E+00	3.36E-05	1.65E-05	2.26E-09
180	4	Subsurface	Iron	mg/kg	1.61E+04	5.58E-02	2.73E-02	3.75E-06
180	4	Subsurface	Manganese	mg/kg	8.05E+02	2.80E-03	1.10E-03	1.88E-07
180	4	Subsurface	Mercury	mg/kg	6.89E+00	2.39E-05	1.17E-05	4.80E-05
180	4	Subsurface	Nickel	mg/kg	6.99E+01	2.43E-04	9.51E-05	1.63E-08
180	4	Subsurface	Silver	mg/kg	1.16E+01	4.04E-05	1.58E-05	2.71E-09
180	4	Subsurface	Total PAH	mg/kg	1.58E-02	5.49E-08	6.99E-08	2.73E-10
180	4	Subsurface	Vanadium	mg/kg	3.50E+01	1.22E-04	3.10E-05	8.17E-09
181	1	Subsurface	Chromium	mg/kg	3.44E+01	1.19E-04	5.85E-05	8.03E-09
181	1	Subsurface	PCB, Total	mg/kg	1.03E-01	3.58E-07	4.91E-07	4.06E-08
181	1	Subsurface	Thallium	mg/kg	3.50E+00	1.22E-05	5.96E-06	8.17E-10
181	1	Subsurface	Total PAH	mg/kg	3.43E-02	1.19E-07	1.52E-07	5.92E-10
194	1	Subsurface	Antimony	mg/kg	8.62E-01	3.00E-06	1.47E-06	2.01E-10
194	1	Subsurface	Arsenic	mg/kg	1.02E+01	3.54E-05	1.04E-05	2.38E-09
194	1	Subsurface	Beryllium	mg/kg	5.96E-01	2.07E-06	1.42E-07	1.39E-10
194	1	Subsurface	Chromium	mg/kg	5.11E+01	1.77E-04	8.69E-05	1.19E-08
194	1	Subsurface	Manganese	mg/kg	5.82E+02	2.02E-03	7.92E-04	1.36E-07
194	1	Subsurface	Mercury	mg/kg	6.71E+00	2.33E-05	1.14E-05	4.67E-05
194	1	Subsurface	Nickel	mg/kg	6.12E+01	2.13E-04	8.33E-05	1.43E-08
194	1	Subsurface	Silver	mg/kg	1.09E+01	3.80E-05	1.49E-05	2.55E-09
194	1	Subsurface	Thallium	mg/kg	3.84E-01	1.33E-06	6.53E-07	8.97E-11
194	1	Subsurface	Vanadium	mg/kg	3.74E+01	1.30E-04	3.31E-05	8.74E-09
194	2	Subsurface	Antimony	mg/kg	6.59E-01	2.29E-06	1.12E-06	1.54E-10
194	2	Subsurface	Arsenic	mg/kg	1.02E+01	3.54E-05	1.04E-05	2.38E-09
194	2	Subsurface	Beryllium	mg/kg	6.96E-01	2.42E-06	1.66E-07	1.63E-10
194	2	Subsurface	Chromium	mg/kg	5.96E+01	2.07E-04	1.01E-04	1.39E-08
194	2	Subsurface	Manganese	mg/kg	7.01E+02	2.44E-03	9.54E-04	1.64E-07
194	2	Subsurface	Mercury	mg/kg	6.90E+00	2.40E-05	1.17E-05	4.80E-05
194	2	Subsurface	Silver	mg/kg	1.39E+01	4.83E-05	1.89E-05	3.25E-09
194	2	Subsurface	Uranium	mg/kg	2.68E+01	9.32E-05	4.56E-05	6.26E-09
194	2	Subsurface	Uranium-238	pCi/g	1.24E+00	4.29E-06		2.88E-10
194	2	Subsurface	Vanadium	mg/kg	3.55E+01	1.23E-04	3.14E-05	8.28E-09
194	3	Subsurface	Antimony	mg/kg	5.92E-01	2.06E-06	1.01E-06	1.38E-10
194	3	Subsurface	Arsenic	mg/kg	1.44E+01	5.02E-05	1.47E-05	3.37E-09
194	3	Subsurface	Cesium-137	pCi/g	2.35E-01	8.17E-07		5.49E-11
194	3	Subsurface	Chromium	mg/kg	4.98E+01	1.73E-04	8.47E-05	1.16E-08
194	3	Subsurface	Nickel	mg/kg	6.32E+01	2.20E-04	8.60E-05	1.48E-08
194	3	Subsurface	Total PAH	mg/kg	3.39E-02	1.18E-07	1.50E-07	5.85E-10
194	3	Subsurface	Uranium-238	pCi/g	1.16E+00	4.04E-06		2.71E-10
194	4	Subsurface	Aluminum	mg/kg	8.50E+03	2.96E-02	1.45E-02	1.99E-06
194	4	Subsurface	Arsenic	mg/kg	1.02E+01	3.56E-05	1.04E-05	2.39E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	4	Subsurface	Beryllium	mg/kg	5.87E-01	2.04E-06	1.40E-07	1.37E-10
194	4	Subsurface	Cesium-137	pCi/g	1.44E-01	5.00E-07		3.36E-11
194	4	Subsurface	Chromium	mg/kg	5.59E+01	1.94E-04	9.51E-05	1.31E-08
194	4	Subsurface	Iron	mg/kg	1.83E+04	6.35E-02	3.11E-02	4.27E-06
194	4	Subsurface	Manganese	mg/kg	4.76E+02	1.65E-03	6.48E-04	1.11E-07
194	4	Subsurface	Mercury	mg/kg	8.92E+00	3.10E-05	1.52E-05	6.21E-05
194	4	Subsurface	Nickel	mg/kg	8.15E+01	2.83E-04	1.11E-04	1.90E-08
194	4	Subsurface	Silver	mg/kg	1.23E+01	4.27E-05	1.67E-05	2.87E-09
194	4	Subsurface	Total PAH	mg/kg	2.85E-02	9.91E-08	1.26E-07	4.92E-10
194	4	Subsurface	Uranium-238	pCi/g	1.02E+00	3.56E-06		2.39E-10
194	4	Subsurface	Vanadium	mg/kg	3.07E+01	1.07E-04	2.72E-05	7.17E-09
194	5	Subsurface	Aluminum	mg/kg	9.38E+03	3.26E-02	1.60E-02	2.19E-06
194	5	Subsurface	Arsenic	mg/kg	9.71E+00	3.38E-05	9.91E-06	2.27E-09
194	5	Subsurface	Beryllium	mg/kg	6.26E-01	2.18E-06	1.49E-07	1.46E-10
194	5	Subsurface	Chromium	mg/kg	5.54E+01	1.93E-04	9.43E-05	1.29E-08
194	5	Subsurface	Manganese	mg/kg	1.39E+03	4.81E-03	1.89E-03	3.23E-07
194	5	Subsurface	Mercury	mg/kg	8.69E+00	3.02E-05	1.48E-05	6.05E-05
194	5	Subsurface	Nickel	mg/kg	7.56E+01	2.63E-04	1.03E-04	1.77E-08
194	5	Subsurface	Silver	mg/kg	1.29E+01	4.49E-05	1.76E-05	3.02E-09
194	5	Subsurface	Total PAH	mg/kg	4.50E-01	1.56E-06	1.99E-06	7.77E-09
194	5	Subsurface	Uranium-238	pCi/g	1.11E+00	3.86E-06		2.60E-10
194	5	Subsurface	Vanadium	mg/kg	3.19E+01	1.11E-04	2.82E-05	7.45E-09
194	6	Subsurface	Manganese	mg/kg	1.37E+03	4.77E-03	1.87E-03	3.20E-07
194	6	Subsurface	Nickel	mg/kg	6.98E+01	2.43E-04	9.51E-05	1.63E-08
194	6	Subsurface	Silver	mg/kg	9.89E+00	3.44E-05	1.35E-05	2.31E-09
194	6	Subsurface	Uranium-238	pCi/g	1.12E+00	3.88E-06		2.61E-10
194	7	Subsurface	Arsenic	mg/kg	1.02E+01	3.55E-05	1.04E-05	2.38E-09
194	7	Subsurface	Chromium	mg/kg	5.32E+01	1.85E-04	9.05E-05	1.24E-08
194	7	Subsurface	Manganese	mg/kg	7.86E+02	2.73E-03	1.07E-03	1.83E-07
194	7	Subsurface	Nickel	mg/kg	7.71E+01	2.68E-04	1.05E-04	1.80E-08
194	7	Subsurface	Silver	mg/kg	1.25E+01	4.34E-05	1.70E-05	2.92E-09
194	8	Subsurface	Antimony	mg/kg	5.58E-01	1.94E-06	9.49E-07	1.30E-10
194	8	Subsurface	Arsenic	mg/kg	1.09E+01	3.78E-05	1.11E-05	2.54E-09
194	8	Subsurface	Cesium-137	pCi/g	2.78E-01	9.66E-07		6.49E-11
194	8	Subsurface	Chromium	mg/kg	6.09E+01	2.12E-04	1.04E-04	1.42E-08
194	8	Subsurface	Cobalt	mg/kg	1.33E+01	4.62E-05	2.26E-05	3.10E-09
194	8	Subsurface	Manganese	mg/kg	1.33E+03	4.63E-03	1.81E-03	3.11E-07
194	8	Subsurface	Nickel	mg/kg	6.01E+01	2.09E-04	8.18E-05	1.40E-08
194	8	Subsurface	Total PAH	mg/kg	3.74E-01	1.30E-06	1.65E-06	6.46E-09
194	8	Subsurface	Uranium-238	pCi/g	1.18E+00	4.10E-06		2.76E-10
194	9	Subsurface	Arsenic	mg/kg	9.77E+00	3.40E-05	9.98E-06	2.28E-09
194	9	Subsurface	Chromium	mg/kg	4.48E+01	1.56E-04	7.62E-05	1.05E-08
194	9	Subsurface	Manganese	mg/kg	5.54E+02	1.93E-03	7.54E-04	1.29E-07
194	9	Subsurface	Nickel	mg/kg	5.98E+01	2.08E-04	8.14E-05	1.40E-08
194	9	Subsurface	Silver	mg/kg	1.07E+01	3.73E-05	1.46E-05	2.51E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	10	Subsurface	Arsenic	mg/kg	1.10E+01	3.83E-05	1.13E-05	2.57E-09
194	10	Subsurface	Cesium-137	pCi/g	5.81E-01	2.02E-06		1.36E-10
194	10	Subsurface	Chromium	mg/kg	5.00E+01	1.74E-04	8.50E-05	1.17E-08
194	10	Subsurface	Mercury	mg/kg	8.07E+00	2.80E-05	1.37E-05	5.62E-05
194	10	Subsurface	Nickel	mg/kg	7.60E+01	2.64E-04	1.03E-04	1.77E-08
194	10	Subsurface	Thallium	mg/kg	4.50E-01	1.56E-06	7.66E-07	1.05E-10
194	10	Subsurface	Total PAH	mg/kg	2.57E-01	8.94E-07	1.14E-06	4.44E-09
194	10	Subsurface	Uranium-238	pCi/g	1.49E+00	5.18E-06		3.48E-10
194	11	Subsurface	Arsenic	mg/kg	1.08E+01	3.74E-05	1.10E-05	2.51E-09
194	11	Subsurface	Chromium	mg/kg	5.66E+01	1.97E-04	9.62E-05	1.32E-08
194	11	Subsurface	Mercury	mg/kg	8.09E+00	2.81E-05	1.38E-05	5.63E-05
194	11	Subsurface	Nickel	mg/kg	1.01E+02	3.50E-04	1.37E-04	2.35E-08
194	11	Subsurface	PCB, Total	mg/kg	8.40E-02	2.92E-07	4.00E-07	3.31E-08
194	11	Subsurface	Silver	mg/kg	1.33E+01	4.62E-05	1.81E-05	3.10E-09
194	11	Subsurface	Thallium	mg/kg	3.70E-01	1.29E-06	6.30E-07	8.64E-11
194	11	Subsurface	Total PAH	mg/kg	7.95E-02	2.76E-07	3.52E-07	1.37E-09
194	12	Subsurface	Arsenic	mg/kg	9.18E+00	3.19E-05	9.37E-06	2.14E-09
194	12	Subsurface	Chromium	mg/kg	6.34E+01	2.20E-04	1.08E-04	1.48E-08
194	12	Subsurface	Manganese	mg/kg	7.31E+02	2.54E-03	9.94E-04	1.71E-07
194	12	Subsurface	Nickel	mg/kg	7.86E+01	2.73E-04	1.07E-04	1.84E-08
194	12	Subsurface	Silver	mg/kg	1.54E+01	5.33E-05	2.09E-05	3.59E-09
194	12	Subsurface	Total PAH	mg/kg	7.07E-01	2.46E-06	3.13E-06	1.22E-08
194	13	Subsurface	Arsenic	mg/kg	9.90E+00	3.44E-05	1.01E-05	2.31E-09
194	13	Subsurface	Chromium	mg/kg	6.25E+01	2.17E-04	1.06E-04	1.46E-08
194	13	Subsurface	Manganese	mg/kg	6.05E+02	2.10E-03	8.24E-04	1.41E-07
194	13	Subsurface	Nickel	mg/kg	6.80E+01	2.36E-04	9.26E-05	1.59E-08
194	13	Subsurface	Total PAH	mg/kg	6.73E-02	2.34E-07	2.98E-07	1.16E-09
194	14	Subsurface	Aluminum	mg/kg	1.26E+04	4.39E-02	2.15E-02	2.95E-06
194	14	Subsurface	Arsenic	mg/kg	1.09E+01	3.77E-05	1.11E-05	2.53E-09
194	14	Subsurface	Chromium	mg/kg	6.09E+01	2.12E-04	1.04E-04	1.42E-08
194	14	Subsurface	Manganese	mg/kg	7.02E+02	2.44E-03	9.55E-04	1.64E-07
194	14	Subsurface	Mercury	mg/kg	8.94E+00	3.11E-05	1.52E-05	6.22E-05
194	14	Subsurface	Nickel	mg/kg	7.09E+01	2.46E-04	9.64E-05	1.65E-08
194	14	Subsurface	Vanadium	mg/kg	3.51E+01	1.22E-04	3.11E-05	8.21E-09
194	15	Subsurface	Arsenic	mg/kg	8.95E+00	3.11E-05	9.14E-06	2.09E-09
194	15	Subsurface	Chromium	mg/kg	6.06E+01	2.11E-04	1.03E-04	1.41E-08
194	15	Subsurface	Manganese	mg/kg	6.10E+02	2.12E-03	8.30E-04	1.42E-07
194	15	Subsurface	Nickel	mg/kg	7.98E+01	2.77E-04	1.09E-04	1.86E-08
194	15	Subsurface	Silver	mg/kg	1.17E+01	4.06E-05	1.59E-05	2.73E-09
194	16	Subsurface	Antimony	mg/kg	5.08E-01	1.77E-06	8.64E-07	1.19E-10
194	16	Subsurface	Arsenic	mg/kg	1.09E+01	3.80E-05	1.12E-05	2.55E-09
194	16	Subsurface	Beryllium	mg/kg	6.46E-01	2.25E-06	1.54E-07	1.51E-10
194	16	Subsurface	Chromium	mg/kg	5.32E+01	1.85E-04	9.06E-05	1.24E-08
194	16	Subsurface	Manganese	mg/kg	1.72E+03	5.98E-03	2.34E-03	4.02E-07
194	16	Subsurface	Nickel	mg/kg	8.59E+01	2.99E-04	1.17E-04	2.01E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	16	Subsurface	Silver	mg/kg	1.23E+01	4.28E-05	1.68E-05	2.88E-09
194	16	Subsurface	Thallium	mg/kg	3.81E-01	1.32E-06	6.48E-07	8.90E-11
194	16	Subsurface	Vanadium	mg/kg	3.24E+01	1.13E-04	2.87E-05	7.57E-09
194	17	Subsurface	Arsenic	mg/kg	1.12E+01	3.88E-05	1.14E-05	2.60E-09
194	17	Subsurface	Cadmium	mg/kg	8.52E-01	2.96E-06	2.90E-08	1.99E-10
194	17	Subsurface	Cesium-137	pCi/g	2.53E-01	8.79E-07		5.91E-11
194	17	Subsurface	Chromium	mg/kg	5.45E+01	1.90E-04	9.28E-05	1.27E-08
194	17	Subsurface	Nickel	mg/kg	6.94E+01	2.41E-04	9.44E-05	1.62E-08
194	17	Subsurface	Total PAH	mg/kg	1.04E-01	3.61E-07	4.60E-07	1.80E-09
194	18	Subsurface	Aluminum	mg/kg	1.67E+04	5.80E-02	2.84E-02	3.90E-06
194	18	Subsurface	Antimony	mg/kg	5.94E-01	2.06E-06	1.01E-06	1.39E-10
194	18	Subsurface	Arsenic	mg/kg	1.19E+01	4.13E-05	1.21E-05	2.77E-09
194	18	Subsurface	Beryllium	mg/kg	7.21E-01	2.51E-06	1.72E-07	1.68E-10
194	18	Subsurface	Chromium	mg/kg	6.85E+01	2.38E-04	1.17E-04	1.60E-08
194	18	Subsurface	Iron	mg/kg	2.10E+04	7.31E-02	3.58E-02	4.91E-06
194	18	Subsurface	Manganese	mg/kg	7.72E+02	2.68E-03	1.05E-03	1.80E-07
194	18	Subsurface	Nickel	mg/kg	9.80E+01	3.40E-04	1.33E-04	2.29E-08
194	18	Subsurface	Thallium	mg/kg	3.04E-01	1.06E-06	5.17E-07	7.10E-11
194	18	Subsurface	Vanadium	mg/kg	3.90E+01	1.36E-04	3.45E-05	9.12E-09
194	19	Subsurface	Arsenic	mg/kg	9.96E+00	3.46E-05	1.02E-05	2.33E-09
194	19	Subsurface	Chromium	mg/kg	4.84E+01	1.68E-04	8.23E-05	1.13E-08
194	19	Subsurface	Nickel	mg/kg	6.83E+01	2.37E-04	9.29E-05	1.59E-08
194	19	Subsurface	Silver	mg/kg	9.44E+00	3.28E-05	1.29E-05	2.20E-09
194	20	Subsurface	Arsenic	mg/kg	1.14E+01	3.98E-05	1.17E-05	2.67E-09
194	20	Subsurface	Barium	mg/kg	2.35E+02	8.18E-04	4.01E-04	5.50E-08
194	20	Subsurface	Beryllium	mg/kg	8.66E-01	3.01E-06	2.06E-07	2.02E-10
194	20	Subsurface	Chromium	mg/kg	7.11E+01	2.47E-04	1.21E-04	1.66E-08
194	20	Subsurface	Cobalt	mg/kg	1.48E+01	5.15E-05	2.52E-05	3.46E-09
194	20	Subsurface	Manganese	mg/kg	2.33E+03	8.09E-03	3.17E-03	5.44E-07
194	20	Subsurface	Mercury	mg/kg	7.28E+00	2.53E-05	1.24E-05	5.07E-05
194	20	Subsurface	Nickel	mg/kg	6.57E+01	2.28E-04	8.94E-05	1.53E-08
194	20	Subsurface	Silver	mg/kg	1.08E+01	3.74E-05	1.46E-05	2.51E-09
194	20	Subsurface	Total PAH	mg/kg	2.08E-02	7.23E-08	9.20E-08	3.59E-10
194	20	Subsurface	Vanadium	mg/kg	3.29E+01	1.14E-04	2.91E-05	7.68E-09
194	21	Subsurface	Antimony	mg/kg	9.30E-01	3.23E-06	1.58E-06	2.17E-10
194	21	Subsurface	Arsenic	mg/kg	3.52E+01	1.22E-04	3.59E-05	8.22E-09
194	21	Subsurface	Barium	mg/kg	2.96E+03	1.03E-02	5.04E-03	6.91E-07
194	21	Subsurface	Beryllium	mg/kg	1.80E+00	6.26E-06	4.29E-07	4.20E-10
194	21	Subsurface	Chromium	mg/kg	5.51E+01	1.91E-04	9.37E-05	1.29E-08
194	21	Subsurface	Cobalt	mg/kg	8.31E+01	2.89E-04	1.41E-04	1.94E-08
194	21	Subsurface	Iron	mg/kg	4.73E+04	1.64E-01	8.05E-02	1.10E-05
194	21	Subsurface	Manganese	mg/kg	3.11E+04	1.08E-01	4.23E-02	7.26E-06
194	21	Subsurface	Mercury	mg/kg	6.62E+00	2.30E-05	1.13E-05	4.61E-05
194	21	Subsurface	Nickel	mg/kg	7.01E+01	2.44E-04	9.55E-05	1.64E-08
194	21	Subsurface	Thallium	mg/kg	1.40E+00	4.87E-06	2.38E-06	3.27E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	21	Subsurface	Vanadium	mg/kg	8.63E+01	3.00E-04	7.64E-05	2.02E-08
194	22	Subsurface	Aluminum	mg/kg	1.13E+04	3.93E-02	1.92E-02	2.64E-06
194	22	Subsurface	Antimony	mg/kg	5.29E-01	1.84E-06	9.00E-07	1.24E-10
194	22	Subsurface	Arsenic	mg/kg	1.15E+01	4.00E-05	1.17E-05	2.69E-09
194	22	Subsurface	Cesium-137	pCi/g	1.62E-01	5.63E-07		3.78E-11
194	22	Subsurface	Chromium	mg/kg	4.75E+01	1.65E-04	8.09E-05	1.11E-08
194	22	Subsurface	Cobalt	mg/kg	1.08E+01	3.74E-05	1.83E-05	2.52E-09
194	22	Subsurface	Manganese	mg/kg	1.06E+03	3.68E-03	1.44E-03	2.47E-07
194	22	Subsurface	Nickel	mg/kg	7.08E+01	2.46E-04	9.63E-05	1.65E-08
194	22	Subsurface	PCB, Total	mg/kg	1.04E+01	3.61E-05	4.95E-05	4.10E-06
194	22	Subsurface	Silver	mg/kg	1.14E+01	3.94E-05	1.55E-05	2.65E-09
194	23	Subsurface	Arsenic	mg/kg	1.12E+01	3.90E-05	1.15E-05	2.62E-09
194	23	Subsurface	Cadmium	mg/kg	6.58E+00	2.29E-05	2.24E-07	1.54E-09
194	23	Subsurface	Cesium-137	pCi/g	2.83E-01	9.84E-07		6.61E-11
194	23	Subsurface	Chromium	mg/kg	5.90E+01	2.05E-04	1.00E-04	1.38E-08
194	23	Subsurface	Iron	mg/kg	1.94E+04	6.73E-02	3.30E-02	4.52E-06
194	23	Subsurface	Manganese	mg/kg	7.24E+02	2.52E-03	9.86E-04	1.69E-07
194	23	Subsurface	Mercury	mg/kg	7.75E+00	2.69E-05	1.32E-05	5.40E-05
194	23	Subsurface	Nickel	mg/kg	7.33E+01	2.55E-04	9.98E-05	1.71E-08
194	23	Subsurface	Silver	mg/kg	1.04E+01	3.60E-05	1.41E-05	2.42E-09
194	24	Subsurface	Arsenic	mg/kg	1.19E+01	4.14E-05	1.22E-05	2.78E-09
194	24	Subsurface	Beryllium	mg/kg	6.50E-01	2.26E-06	1.55E-07	1.52E-10
194	24	Subsurface	Cesium-137	pCi/g	2.13E-01	7.40E-07		4.98E-11
194	24	Subsurface	Chromium	mg/kg	4.67E+01	1.62E-04	7.95E-05	1.09E-08
194	24	Subsurface	Iron	mg/kg	2.31E+04	8.03E-02	3.93E-02	5.39E-06
194	24	Subsurface	Manganese	mg/kg	6.03E+02	2.09E-03	8.20E-04	1.41E-07
194	24	Subsurface	Mercury	mg/kg	7.03E+00	2.44E-05	1.20E-05	4.89E-05
194	24	Subsurface	Nickel	mg/kg	8.41E+01	2.92E-04	1.15E-04	1.97E-08
194	24	Subsurface	Total PAH	mg/kg	1.49E-02	5.18E-08	6.59E-08	2.57E-10
194	25	Subsurface	Aluminum	mg/kg	1.45E+04	5.04E-02	2.47E-02	3.39E-06
194	25	Subsurface	Arsenic	mg/kg	1.05E+01	3.65E-05	1.07E-05	2.45E-09
194	25	Subsurface	Barium	mg/kg	3.00E+02	1.04E-03	5.10E-04	7.01E-08
194	25	Subsurface	Beryllium	mg/kg	8.30E-01	2.88E-06	1.98E-07	1.94E-10
194	25	Subsurface	Chromium	mg/kg	5.23E+01	1.82E-04	8.89E-05	1.22E-08
194	25	Subsurface	Manganese	mg/kg	9.90E+02	3.44E-03	1.35E-03	2.31E-07
194	25	Subsurface	Nickel	mg/kg	6.33E+01	2.20E-04	8.62E-05	1.48E-08
194	25	Subsurface	Total PAH	mg/kg	2.06E-02	7.16E-08	9.11E-08	3.56E-10
194	26	Subsurface	Aluminum	mg/kg	1.21E+04	4.20E-02	2.05E-02	2.82E-06
194	26	Subsurface	Arsenic	mg/kg	9.09E+00	3.16E-05	9.28E-06	2.12E-09
194	26	Subsurface	Beryllium	mg/kg	7.31E-01	2.54E-06	1.74E-07	1.71E-10
194	26	Subsurface	Chromium	mg/kg	4.81E+01	1.67E-04	8.18E-05	1.12E-08
194	26	Subsurface	Cobalt	mg/kg	1.34E+01	4.67E-05	2.29E-05	3.14E-09
194	26	Subsurface	Manganese	mg/kg	6.25E+02	2.17E-03	8.51E-04	1.46E-07
194	26	Subsurface	Silver	mg/kg	1.03E+01	3.57E-05	1.40E-05	2.40E-09
194	26	Subsurface	Thallium	mg/kg	3.12E-01	1.08E-06	5.31E-07	7.29E-11

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	26	Subsurface	Vanadium	mg/kg	3.84E+01	1.33E-04	3.40E-05	8.97E-09
194	27	Subsurface	Antimony	mg/kg	4.96E-01	1.72E-06	8.44E-07	1.16E-10
194	27	Subsurface	Arsenic	mg/kg	1.07E+01	3.70E-05	1.09E-05	2.49E-09
194	27	Subsurface	Chromium	mg/kg	5.16E+01	1.79E-04	8.78E-05	1.21E-08
194	27	Subsurface	Nickel	mg/kg	6.55E+01	2.28E-04	8.92E-05	1.53E-08
194	27	Subsurface	Silver	mg/kg	1.03E+01	3.58E-05	1.40E-05	2.41E-09
194	28	Subsurface	Arsenic	mg/kg	1.13E+01	3.92E-05	1.15E-05	2.63E-09
194	28	Subsurface	Beryllium	mg/kg	7.41E-01	2.58E-06	1.77E-07	1.73E-10
194	28	Subsurface	Chromium	mg/kg	6.36E+01	2.21E-04	1.08E-04	1.49E-08
194	28	Subsurface	Manganese	mg/kg	1.21E+03	4.19E-03	1.64E-03	2.82E-07
194	28	Subsurface	Nickel	mg/kg	6.89E+01	2.40E-04	9.38E-05	1.61E-08
194	28	Subsurface	Silver	mg/kg	1.52E+01	5.28E-05	2.07E-05	3.55E-09
194	28	Subsurface	Vanadium	mg/kg	3.85E+01	1.34E-04	3.41E-05	8.99E-09
194	29	Subsurface	Aluminum	mg/kg	1.32E+04	4.59E-02	2.25E-02	3.08E-06
194	29	Subsurface	Antimony	mg/kg	7.10E-01	2.47E-06	1.21E-06	1.66E-10
194	29	Subsurface	Arsenic	mg/kg	1.43E+01	4.97E-05	1.46E-05	3.34E-09
194	29	Subsurface	Barium	mg/kg	1.88E+02	6.53E-04	3.20E-04	4.39E-08
194	29	Subsurface	Beryllium	mg/kg	8.20E-01	2.85E-06	1.95E-07	1.92E-10
194	29	Subsurface	Chromium	mg/kg	5.76E+01	2.00E-04	9.80E-05	1.34E-08
194	29	Subsurface	Cobalt	mg/kg	1.41E+01	4.90E-05	2.40E-05	3.29E-09
194	29	Subsurface	Manganese	mg/kg	2.65E+03	9.21E-03	3.61E-03	6.19E-07
194	29	Subsurface	Nickel	mg/kg	8.47E+01	2.94E-04	1.15E-04	1.98E-08
194	29	Subsurface	Silver	mg/kg	9.77E+00	3.40E-05	1.33E-05	2.28E-09
194	29	Subsurface	Thallium	mg/kg	4.40E-01	1.53E-06	7.49E-07	1.03E-10
194	29	Subsurface	Vanadium	mg/kg	4.12E+01	1.43E-04	3.65E-05	9.62E-09
194	30	Subsurface	Arsenic	mg/kg	9.44E+00	3.28E-05	9.64E-06	2.21E-09
194	30	Subsurface	Beryllium	mg/kg	3.16E+00	1.10E-05	7.53E-07	7.39E-10
194	30	Subsurface	Chromium	mg/kg	5.70E+01	1.98E-04	9.70E-05	1.33E-08
194	30	Subsurface	Manganese	mg/kg	6.15E+02	2.14E-03	8.36E-04	1.44E-07
194	30	Subsurface	Mercury	mg/kg	8.80E+00	3.06E-05	1.50E-05	6.13E-05
194	30	Subsurface	Nickel	mg/kg	6.99E+01	2.43E-04	9.51E-05	1.63E-08
194	30	Subsurface	Silver	mg/kg	1.04E+01	3.61E-05	1.41E-05	2.42E-09
194	30	Subsurface	Vanadium	mg/kg	2.79E+01	9.69E-05	2.47E-05	6.51E-09
194	31	Subsurface	Cesium-137	pCi/g	5.70E-01	1.98E-06		1.33E-10
194	31	Subsurface	Uranium-238	pCi/g	1.72E+00	5.98E-06		4.02E-10
195	1	Subsurface	Arsenic	mg/kg	1.17E+01	4.08E-05	1.20E-05	2.74E-09
195	1	Subsurface	Cesium-137	pCi/g	3.70E-01	1.29E-06		8.64E-11
195	1	Subsurface	Chromium	mg/kg	5.85E+01	2.03E-04	9.96E-05	1.37E-08
195	1	Subsurface	Nickel	mg/kg	8.00E+01	2.78E-04	1.09E-04	1.87E-08
195	1	Subsurface	Silver	mg/kg	9.37E+00	3.26E-05	1.28E-05	2.19E-09
195	1	Subsurface	Thallium	mg/kg	2.99E-01	1.04E-06	5.09E-07	6.98E-11
195	1	Subsurface	Total PAH	mg/kg	1.53E-02	5.32E-08	6.77E-08	2.64E-10
195	2	Subsurface	Chromium	mg/kg	5.63E+01	1.96E-04	9.58E-05	1.32E-08
195	2	Subsurface	Silver	mg/kg	9.48E+00	3.29E-05	1.29E-05	2.21E-09
195	2	Subsurface	Total PAH	mg/kg	1.93E-02	6.71E-08	8.54E-08	3.33E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
195	3	Subsurface	Arsenic	mg/kg	1.09E+01	3.77E-05	1.11E-05	2.53E-09
195	3	Subsurface	Chromium	mg/kg	5.29E+01	1.84E-04	9.00E-05	1.23E-08
195	3	Subsurface	Manganese	mg/kg	4.88E+02	1.69E-03	6.64E-04	1.14E-07
195	3	Subsurface	Nickel	mg/kg	9.63E+01	3.35E-04	1.31E-04	2.25E-08
195	3	Subsurface	Total PAH	mg/kg	3.31E-02	1.15E-07	1.46E-07	5.72E-10
195	4	Subsurface	Arsenic	mg/kg	1.01E+01	3.50E-05	1.03E-05	2.35E-09
195	4	Subsurface	Chromium	mg/kg	5.08E+01	1.76E-04	8.64E-05	1.19E-08
195	4	Subsurface	Nickel	mg/kg	8.37E+01	2.91E-04	1.14E-04	1.95E-08
195	4	Subsurface	Silver	mg/kg	8.80E+00	3.06E-05	1.20E-05	2.06E-09
195	4	Subsurface	Thallium	mg/kg	3.39E-01	1.18E-06	5.77E-07	7.92E-11
195	5	Subsurface	Arsenic	mg/kg	8.80E+00	3.06E-05	8.98E-06	2.06E-09
195	5	Subsurface	Cesium-137	pCi/g	3.41E-01	1.19E-06		7.96E-11
195	5	Subsurface	Chromium	mg/kg	5.74E+01	2.00E-04	9.77E-05	1.34E-08
195	5	Subsurface	Nickel	mg/kg	8.11E+01	2.82E-04	1.10E-04	1.89E-08
195	5	Subsurface	Silver	mg/kg	8.41E+00	2.92E-05	1.14E-05	1.96E-09
195	5	Subsurface	Thallium	mg/kg	5.50E-01	1.91E-06	9.36E-07	1.28E-10
195	5	Subsurface	Total PAH	mg/kg	2.40E-02	8.34E-08	1.06E-07	4.14E-10
195	6	Subsurface	Arsenic	mg/kg	1.05E+01	3.65E-05	1.07E-05	2.45E-09
195	6	Subsurface	Cesium-137	pCi/g	2.26E-01	7.85E-07		5.28E-11
195	6	Subsurface	Chromium	mg/kg	5.52E+01	1.92E-04	9.39E-05	1.29E-08
195	6	Subsurface	Nickel	mg/kg	9.81E+01	3.41E-04	1.34E-04	2.29E-08
195	6	Subsurface	Silver	mg/kg	1.00E+01	3.48E-05	1.36E-05	2.34E-09
195	6	Subsurface	Total PAH	mg/kg	1.91E-01	6.64E-07	8.45E-07	3.30E-09
195	7	Subsurface	Arsenic	mg/kg	8.49E+00	2.95E-05	8.67E-06	1.98E-09
195	7	Subsurface	Chromium	mg/kg	4.74E+01	1.65E-04	8.06E-05	1.11E-08
195	7	Subsurface	Cobalt	mg/kg	1.13E+01	3.94E-05	1.93E-05	2.65E-09
195	7	Subsurface	Silver	mg/kg	8.06E+00	2.80E-05	1.10E-05	1.88E-09
195	8	Subsurface	Arsenic	mg/kg	1.12E+01	3.88E-05	1.14E-05	2.60E-09
195	8	Subsurface	Beryllium	mg/kg	6.78E-01	2.36E-06	1.62E-07	1.58E-10
195	8	Subsurface	Cesium-137	pCi/g	2.44E-01	8.48E-07		5.70E-11
195	8	Subsurface	Chromium	mg/kg	5.23E+01	1.82E-04	8.89E-05	1.22E-08
195	8	Subsurface	Cobalt	mg/kg	1.41E+01	4.89E-05	2.39E-05	3.29E-09
195	8	Subsurface	Manganese	mg/kg	6.90E+02	2.40E-03	9.40E-04	1.61E-07
195	8	Subsurface	Nickel	mg/kg	8.93E+01	3.10E-04	1.22E-04	2.09E-08
195	8	Subsurface	Silver	mg/kg	8.51E+00	2.96E-05	1.16E-05	1.99E-09
195	8	Subsurface	Total PAH	mg/kg	1.42E-01	4.94E-07	6.28E-07	2.45E-09
195	8	Subsurface	Vanadium	mg/kg	3.70E+01	1.28E-04	3.27E-05	8.64E-09
195	9	Subsurface	Arsenic	mg/kg	1.03E+01	3.59E-05	1.05E-05	2.41E-09
195	9	Subsurface	Chromium	mg/kg	6.08E+01	2.11E-04	1.03E-04	1.42E-08
195	9	Subsurface	Nickel	mg/kg	9.12E+01	3.17E-04	1.24E-04	2.13E-08
195	9	Subsurface	Silver	mg/kg	9.33E+00	3.24E-05	1.27E-05	2.18E-09
195	10	Subsurface	Arsenic	mg/kg	9.83E+00	3.42E-05	1.00E-05	2.30E-09
195	10	Subsurface	Chromium	mg/kg	4.29E+01	1.49E-04	7.29E-05	1.00E-08
195	10	Subsurface	Manganese	mg/kg	3.79E+02	1.32E-03	5.15E-04	8.84E-08
195	10	Subsurface	Nickel	mg/kg	7.98E+01	2.77E-04	1.09E-04	1.86E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
195	10	Subsurface	Silver	mg/kg	1.31E+01	4.56E-05	1.78E-05	3.06E-09
195	11	Subsurface	Aluminum	mg/kg	1.93E+04	6.71E-02	3.29E-02	4.51E-06
195	11	Subsurface	Arsenic	mg/kg	1.30E+01	4.50E-05	1.32E-05	3.02E-09
195	11	Subsurface	Barium	mg/kg	3.18E+02	1.10E-03	5.40E-04	7.42E-08
195	11	Subsurface	Cesium-137	pCi/g	2.13E-01	7.40E-07		4.98E-11
195	11	Subsurface	Chromium	mg/kg	5.67E+01	1.97E-04	9.65E-05	1.33E-08
195	11	Subsurface	Cobalt	mg/kg	1.87E+01	6.49E-05	3.18E-05	4.36E-09
195	11	Subsurface	Iron	mg/kg	2.10E+04	7.31E-02	3.58E-02	4.91E-06
195	11	Subsurface	Manganese	mg/kg	5.25E+02	1.83E-03	7.15E-04	1.23E-07
195	11	Subsurface	Nickel	mg/kg	8.37E+01	2.91E-04	1.14E-04	1.95E-08
195	11	Subsurface	Silver	mg/kg	8.26E+00	2.87E-05	1.12E-05	1.93E-09
195	11	Subsurface	Thallium	mg/kg	4.46E-01	1.55E-06	7.59E-07	1.04E-10
195	11	Subsurface	Total PAH	mg/kg	2.83E-02	9.84E-08	1.25E-07	4.89E-10
195	11	Subsurface	Vanadium	mg/kg	5.55E+01	1.93E-04	4.91E-05	1.30E-08
195	12	Subsurface	Arsenic	mg/kg	1.08E+01	3.74E-05	1.10E-05	2.51E-09
195	12	Subsurface	Beryllium	mg/kg	6.22E-01	2.16E-06	1.48E-07	1.45E-10
195	12	Subsurface	Chromium	mg/kg	6.45E+01	2.24E-04	1.10E-04	1.51E-08
195	12	Subsurface	Manganese	mg/kg	4.77E+02	1.66E-03	6.49E-04	1.11E-07
195	12	Subsurface	Nickel	mg/kg	9.19E+01	3.19E-04	1.25E-04	2.15E-08
195	12	Subsurface	Vanadium	mg/kg	3.68E+01	1.28E-04	3.26E-05	8.59E-09
195	13	Subsurface	Arsenic	mg/kg	9.12E+00	3.17E-05	9.31E-06	2.13E-09
195	13	Subsurface	Chromium	mg/kg	5.23E+01	1.82E-04	8.89E-05	1.22E-08
195	13	Subsurface	Nickel	mg/kg	8.34E+01	2.90E-04	1.14E-04	1.95E-08
195	13	Subsurface	Silver	mg/kg	8.71E+00	3.03E-05	1.19E-05	2.03E-09
195	14	Subsurface	Arsenic	mg/kg	1.02E+01	3.55E-05	1.04E-05	2.39E-09
195	14	Subsurface	Chromium	mg/kg	5.94E+01	2.07E-04	1.01E-04	1.39E-08
195	14	Subsurface	Mercury	mg/kg	6.49E+00	2.26E-05	1.10E-05	4.52E-05
195	14	Subsurface	Nickel	mg/kg	8.22E+01	2.86E-04	1.12E-04	1.92E-08
195	14	Subsurface	Silver	mg/kg	8.87E+00	3.08E-05	1.21E-05	2.07E-09
195	15	Subsurface	Arsenic	mg/kg	9.15E+00	3.18E-05	9.34E-06	2.14E-09
195	15	Subsurface	Cesium-137	pCi/g	2.61E-01	9.07E-07		6.10E-11
195	15	Subsurface	Chromium	mg/kg	5.34E+01	1.86E-04	9.09E-05	1.25E-08
195	16	Subsurface	Cesium-137	pCi/g	2.94E-01	1.02E-06		6.87E-11
195	16	Subsurface	Chromium	mg/kg	5.22E+01	1.81E-04	8.89E-05	1.22E-08
195	16	Subsurface	Manganese	mg/kg	3.87E+02	1.34E-03	5.27E-04	9.04E-08
195	16	Subsurface	Mercury	mg/kg	8.43E+00	2.93E-05	1.43E-05	5.87E-05
195	16	Subsurface	Nickel	mg/kg	8.59E+01	2.98E-04	1.17E-04	2.01E-08
195	17	Subsurface	Arsenic	mg/kg	9.36E+00	3.25E-05	9.56E-06	2.19E-09
195	17	Subsurface	Chromium	mg/kg	6.77E+01	2.35E-04	1.15E-04	1.58E-08
195	17	Subsurface	Manganese	mg/kg	5.02E+02	1.75E-03	6.84E-04	1.17E-07
195	17	Subsurface	Mercury	mg/kg	7.24E+00	2.52E-05	1.23E-05	5.04E-05
195	17	Subsurface	Nickel	mg/kg	7.09E+01	2.46E-04	9.65E-05	1.66E-08
195	17	Subsurface	PCB, Total	mg/kg	7.40E-01	2.57E-06	3.53E-06	2.91E-07
195	17	Subsurface	Silver	mg/kg	1.20E+01	4.16E-05	1.63E-05	2.80E-09
195	17	Subsurface	Thallium	mg/kg	4.82E-01	1.68E-06	8.20E-07	1.13E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
195	17	Subsurface	Total PAH	mg/kg	2.05E-01	7.12E-07	9.07E-07	3.54E-09
195	17	Subsurface	Uranium-235	pCi/g	9.72E-02	3.38E-07		2.27E-11
195	17	Subsurface	Uranium-238	pCi/g	1.75E+00	6.09E-06		4.09E-10
196	1	Subsurface	Aluminum	mg/kg	1.79E+04	6.22E-02	3.05E-02	4.18E-06
196	1	Subsurface	Antimony	mg/kg	1.21E+02	4.21E-04	2.06E-04	2.83E-08
196	1	Subsurface	Arsenic	mg/kg	1.05E+01	3.65E-05	1.07E-05	2.45E-09
196	1	Subsurface	Barium	mg/kg	3.89E+02	1.35E-03	6.62E-04	9.09E-08
196	1	Subsurface	Beryllium	mg/kg	1.13E+02	3.93E-04	2.69E-05	2.64E-08
196	1	Subsurface	Cadmium	mg/kg	1.16E+02	4.03E-04	3.95E-06	2.71E-08
196	1	Subsurface	Chromium	mg/kg	1.12E+02	3.89E-04	1.91E-04	2.62E-08
196	1	Subsurface	Cobalt	mg/kg	1.12E+02	3.89E-04	1.91E-04	2.62E-08
196	1	Subsurface	Iron	mg/kg	2.96E+04	1.03E-01	5.04E-02	6.91E-06
196	1	Subsurface	Manganese	mg/kg	1.98E+03	6.88E-03	2.70E-03	4.62E-07
196	1	Subsurface	Neptunium-237	pCi/g	3.11E-01	1.08E-06		7.26E-11
196	1	Subsurface	Nickel	mg/kg	5.87E+02	2.04E-03	7.99E-04	1.37E-07
196	1	Subsurface	Silver	mg/kg	6.54E+01	2.27E-04	8.90E-05	1.53E-08
196	1	Subsurface	Thallium	mg/kg	1.14E+02	3.96E-04	1.94E-04	2.66E-08
196	1	Subsurface	Uranium	mg/kg	2.33E+01	8.10E-05	3.96E-05	5.44E-09
196	1	Subsurface	Uranium-238	pCi/g	1.54E+00	5.35E-06		3.60E-10
196	1	Subsurface	Vanadium	mg/kg	4.38E+01	1.52E-04	3.88E-05	1.02E-08
196	1	Subsurface	Zinc	mg/kg	1.65E+03	5.73E-03	2.81E-03	3.85E-07
196	2	Subsurface	Aluminum	mg/kg	1.69E+04	5.87E-02	2.88E-02	3.95E-06
196	2	Subsurface	Antimony	mg/kg	6.22E+01	2.16E-04	1.06E-04	1.45E-08
196	2	Subsurface	Arsenic	mg/kg	9.40E+00	3.27E-05	9.60E-06	2.20E-09
196	2	Subsurface	Barium	mg/kg	2.02E+02	7.02E-04	3.44E-04	4.72E-08
196	2	Subsurface	Cadmium	mg/kg	4.42E+00	1.54E-05	1.50E-07	1.03E-09
196	2	Subsurface	Nickel	mg/kg	8.01E+01	2.78E-04	1.09E-04	1.87E-08
196	2	Subsurface	PCB, Total	mg/kg	1.51E+00	5.25E-06	7.19E-06	5.95E-07
196	2	Subsurface	Selenium	mg/kg	6.29E+01	2.19E-04	1.07E-04	1.47E-08
196	2	Subsurface	Total PAH	mg/kg	9.04E+00	3.14E-05	4.00E-05	1.56E-07
196	2	Subsurface	Uranium-238	pCi/g	2.21E+00	7.68E-06		5.16E-10
200	1	Subsurface	Antimony	mg/kg	3.82E-01	1.33E-06	6.50E-07	8.92E-11
200	1	Subsurface	Arsenic	mg/kg	9.73E+00	3.38E-05	9.93E-06	2.27E-09
200	1	Subsurface	Cesium-137	pCi/g	4.68E-01	1.63E-06		1.09E-10
200	1	Subsurface	Chromium	mg/kg	6.19E+01	2.15E-04	1.05E-04	1.45E-08
200	1	Subsurface	Manganese	mg/kg	4.60E+02	1.60E-03	6.25E-04	1.07E-07
200	1	Subsurface	Mercury	mg/kg	6.93E+00	2.41E-05	1.18E-05	4.82E-05
200	1	Subsurface	Nickel	mg/kg	1.26E+02	4.37E-04	1.71E-04	2.94E-08
200	1	Subsurface	PCB, Total	mg/kg	2.60E+00	9.04E-06	1.24E-05	1.02E-06
200	1	Subsurface	Silver	mg/kg	9.47E+00	3.29E-05	1.29E-05	2.21E-09
200	1	Subsurface	Total PAH	mg/kg	1.89E-02	6.57E-08	8.36E-08	3.26E-10
200	1	Subsurface	Uranium	mg/kg	2.65E+01	9.20E-05	4.50E-05	6.18E-09
200	1	Subsurface	Uranium-235	pCi/g	1.14E-01	3.96E-07		2.66E-11
200	1	Subsurface	Uranium-238	pCi/g	2.79E+00	9.71E-06		6.53E-10
204	1	Subsurface	Aluminum	mg/kg	1.48E+04	5.14E-02	2.52E-02	3.46E-06

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
204	1	Subsurface	Arsenic	mg/kg	1.04E+01	3.61E-05	1.06E-05	2.43E-09
204	1	Subsurface	Beryllium	mg/kg	1.36E+00	4.73E-06	3.24E-07	3.18E-10
204	1	Subsurface	Cadmium	mg/kg	2.73E+00	9.49E-06	9.29E-08	6.38E-10
204	1	Subsurface	Chromium	mg/kg	7.40E+01	2.57E-04	1.26E-04	1.73E-08
204	1	Subsurface	Iron	mg/kg	4.19E+04	1.46E-01	7.13E-02	9.79E-06
204	1	Subsurface	PCB, Total	mg/kg	2.53E+00	8.79E-06	1.21E-05	9.96E-07
204	1	Subsurface	Uranium-235	pCi/g	1.80E-01	6.26E-07		4.20E-11
204	1	Subsurface	Uranium-238	pCi/g	5.20E+00	1.81E-05		1.21E-09
204	1	Subsurface	Vanadium	mg/kg	7.55E+01	2.62E-04	6.68E-05	1.76E-08
204	2	Subsurface	Aluminum	mg/kg	1.37E+04	4.76E-02	2.33E-02	3.20E-06
204	2	Subsurface	PCB, Total	mg/kg	1.70E-01	5.91E-07	8.10E-07	6.69E-08
204	3	Subsurface	Uranium-238	pCi/g	2.50E+00	8.69E-06		5.84E-10
204	4	Subsurface	Antimony	mg/kg	1.72E+01	5.98E-05	2.93E-05	4.02E-09
204	4	Subsurface	Uranium-235	pCi/g	1.88E-01	6.53E-07		4.39E-11
204	4	Subsurface	Uranium-238	pCi/g	9.72E+00	3.38E-05		2.27E-09
204	18	Subsurface	Cesium-137	pCi/g	6.30E-01	2.19E-06		1.47E-10
204	18	Subsurface	Uranium	mg/kg	1.60E+01	5.56E-05	2.72E-05	3.74E-09
204	18	Subsurface	Uranium-235	pCi/g	1.25E-01	4.34E-07		2.92E-11
204	18	Subsurface	Uranium-238	pCi/g	5.37E+00	1.87E-05		1.25E-09
204	22	Subsurface	Uranium	mg/kg	3.71E+02	1.29E-03	6.31E-04	8.67E-08
204	23	Subsurface	Americium-241	pCi/g	3.71E+00	1.29E-05		8.66E-10
204	23	Subsurface	Beryllium	mg/kg	1.33E+00	4.62E-06	3.17E-07	3.11E-10
204	23	Subsurface	Cesium-137	pCi/g	1.17E+00	4.07E-06		2.74E-10
204	23	Subsurface	Chromium	mg/kg	1.75E+02	6.08E-04	2.98E-04	4.09E-08
204	23	Subsurface	Cobalt-60	pCi/g	1.23E-02	4.26E-08		2.86E-12
204	23	Subsurface	PCB, Total	mg/kg	7.90E+01	2.75E-04	3.76E-04	3.11E-05
204	23	Subsurface	Trichloroethene	mg/kg	7.30E-02	2.54E-07	6.21E-07	9.36E-06
204	23	Subsurface	Uranium	mg/kg	1.31E+04	4.54E-02	2.22E-02	3.05E-06
204	23	Subsurface	Uranium-234	pCi/g	4.45E+02	1.55E-03		1.04E-07
204	23	Subsurface	Uranium-235	pCi/g	5.70E+01	1.98E-04		1.33E-08
204	23	Subsurface	Uranium-238	pCi/g	4.39E+03	1.52E-02		1.02E-06
211	1	Subsurface	Arsenic	mg/kg	1.00E+01	3.48E-05	1.02E-05	2.34E-09
211	1	Subsurface	Barium	mg/kg	2.13E+02	7.40E-04	3.62E-04	4.98E-08
211	1	Subsurface	Beryllium	mg/kg	8.50E-01	2.95E-06	2.02E-07	1.99E-10
211	1	Subsurface	Chromium	mg/kg	4.84E+01	1.68E-04	8.24E-05	1.13E-08
211	1	Subsurface	Cobalt	mg/kg	4.95E+01	1.72E-04	8.42E-05	1.16E-08
211	1	Subsurface	Neptunium-237	pCi/g	1.56E-01	5.42E-07		3.64E-11
211	1	Subsurface	Nickel	mg/kg	8.87E+01	3.08E-04	1.21E-04	2.07E-08
211	1	Subsurface	PCB, Total	mg/kg	1.40E+02	4.87E-04	6.67E-04	5.51E-05
211	1	Subsurface	Total PAH	mg/kg	1.04E-01	3.61E-07	4.59E-07	1.79E-09
211	1	Subsurface	Uranium	mg/kg	4.85E+01	1.69E-04	8.25E-05	1.13E-08
211	1	Subsurface	Uranium-234	pCi/g	8.06E+00	2.80E-05		1.88E-09
211	1	Subsurface	Uranium-235	pCi/g	5.80E-01	2.02E-06		1.35E-10
211	1	Subsurface	Uranium-238	pCi/g	1.59E+01	5.53E-05		3.71E-09
212	1	Subsurface	Antimony	mg/kg	1.40E+00	4.87E-06	2.38E-06	3.27E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
212	1	Subsurface	Arsenic	mg/kg	1.44E+01	5.01E-05	1.47E-05	3.37E-09
212	1	Subsurface	Barium	mg/kg	1.92E+02	6.67E-04	3.27E-04	4.48E-08
212	1	Subsurface	Beryllium	mg/kg	8.90E-01	3.09E-06	2.12E-07	2.08E-10
212	1	Subsurface	Cesium-137	pCi/g	6.01E-01	2.09E-06		1.40E-10
212	1	Subsurface	Chromium	mg/kg	6.66E+01	2.32E-04	1.13E-04	1.56E-08
212	1	Subsurface	Cobalt	mg/kg	1.76E+01	6.12E-05	2.99E-05	4.11E-09
212	1	Subsurface	Cobalt-60	pCi/g	8.76E-03	3.04E-08		2.05E-12
212	1	Subsurface	Iron	mg/kg	4.14E+04	1.44E-01	7.04E-02	9.67E-06
212	1	Subsurface	Manganese	mg/kg	1.44E+03	5.00E-03	1.96E-03	3.36E-07
212	1	Subsurface	Mercury	mg/kg	6.94E+00	2.41E-05	1.18E-05	4.83E-05
212	1	Subsurface	Neptunium-237	pCi/g	4.00E+00	1.39E-05		9.34E-10
212	1	Subsurface	Nickel	mg/kg	8.69E+01	3.02E-04	1.18E-04	2.03E-08
212	1	Subsurface	PCB, Total	mg/kg	1.80E-01	6.26E-07	8.58E-07	7.09E-08
212	1	Subsurface	Plutonium-239/240	pCi/g	6.71E+00	2.33E-05		1.57E-09
212	1	Subsurface	Silver	mg/kg	1.55E+01	5.39E-05	2.11E-05	3.63E-09
212	1	Subsurface	Thorium-230	pCi/g	2.60E+02	9.04E-04		6.07E-08
212	1	Subsurface	Uranium	mg/kg	2.30E+01	7.99E-05	3.91E-05	5.37E-09
212	1	Subsurface	Uranium-235	pCi/g	2.09E-01	7.26E-07		4.88E-11
212	1	Subsurface	Uranium-238	pCi/g	3.17E+00	1.10E-05		7.40E-10
212	1	Subsurface	Vanadium	mg/kg	5.33E+01	1.85E-04	4.72E-05	1.24E-08
213	1	Subsurface	Antimony	mg/kg	8.50E-01	2.95E-06	1.45E-06	1.99E-10
213	1	Subsurface	Arsenic	mg/kg	9.21E+00	3.20E-05	9.40E-06	2.15E-09
213	1	Subsurface	Chromium	mg/kg	5.47E+01	1.90E-04	9.30E-05	1.28E-08
213	1	Subsurface	Manganese	mg/kg	9.06E+02	3.15E-03	1.23E-03	2.12E-07
213	1	Subsurface	Nickel	mg/kg	6.67E+01	2.32E-04	9.08E-05	1.56E-08
213	1	Subsurface	PCB, Total	mg/kg	7.30E-02	2.54E-07	3.48E-07	2.87E-08
213	1	Subsurface	Silver	mg/kg	1.32E+01	4.58E-05	1.79E-05	3.08E-09
213	1	Subsurface	Total PAH	mg/kg	1.72E-01	5.97E-07	7.60E-07	2.97E-09
213	1	Subsurface	Uranium-238	pCi/g	2.33E+00	8.10E-06		5.44E-10
213	2	Subsurface	Chromium	mg/kg	6.77E+01	2.35E-04	1.15E-04	1.58E-08
213	2	Subsurface	Manganese	mg/kg	2.10E+03	7.31E-03	2.86E-03	4.91E-07
213	2	Subsurface	Nickel	mg/kg	9.10E+01	3.16E-04	1.24E-04	2.13E-08
213	2	Subsurface	Silver	mg/kg	1.13E+01	3.91E-05	1.53E-05	2.63E-09
214	1	Subsurface	Antimony	mg/kg	5.70E-01	1.98E-06	9.70E-07	1.33E-10
214	1	Subsurface	Arsenic	mg/kg	1.15E+01	4.00E-05	1.18E-05	2.69E-09
215	1	Subsurface	Antimony	mg/kg	6.80E-01	2.36E-06	1.16E-06	1.59E-10
215	1	Subsurface	Arsenic	mg/kg	1.02E+01	3.53E-05	1.04E-05	2.37E-09
215	1	Subsurface	Chromium	mg/kg	5.73E+01	1.99E-04	9.75E-05	1.34E-08
215	1	Subsurface	Iron	mg/kg	3.87E+04	1.34E-01	6.58E-02	9.04E-06
215	1	Subsurface	Nickel	mg/kg	7.32E+01	2.54E-04	9.96E-05	1.71E-08
215	1	Subsurface	Silver	mg/kg	9.51E+00	3.31E-05	1.29E-05	2.22E-09
215	1	Subsurface	Total PAH	mg/kg	5.00E-01	1.74E-06	2.21E-06	8.64E-09
216	1	Subsurface	Arsenic	mg/kg	8.60E+00	2.99E-05	8.78E-06	2.01E-09
216	1	Subsurface	Cesium-137	pCi/g	4.10E-01	1.42E-06		9.58E-11
216	1	Subsurface	Total PAH	mg/kg	1.49E-01	5.19E-07	6.61E-07	2.58E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
216	1	Subsurface	Uranium-238	pCi/g	1.33E+00	4.62E-06		3.11E-10
217	1	Subsurface	Arsenic	mg/kg	9.42E+00	3.27E-05	9.62E-06	2.20E-09
217	1	Subsurface	Chromium	mg/kg	6.53E+01	2.27E-04	1.11E-04	1.53E-08
217	1	Subsurface	Cobalt	mg/kg	1.64E+01	5.70E-05	2.79E-05	3.83E-09
217	1	Subsurface	Manganese	mg/kg	9.97E+02	3.47E-03	1.36E-03	2.33E-07
217	1	Subsurface	Mercury	mg/kg	7.37E+00	2.56E-05	1.25E-05	5.13E-05
217	1	Subsurface	Nickel	mg/kg	8.71E+01	3.03E-04	1.19E-04	2.03E-08
217	1	Subsurface	Silver	mg/kg	1.35E+01	4.67E-05	1.83E-05	3.14E-09
217	1	Subsurface	Uranium-238	pCi/g	1.09E+00	3.80E-06		2.56E-10
217	1	Subsurface	Vanadium	mg/kg	3.00E+01	1.04E-04	2.65E-05	7.01E-09
217	2	Subsurface	Aluminum	mg/kg	1.02E+04	3.56E-02	1.74E-02	2.39E-06
217	2	Subsurface	Antimony	mg/kg	3.10E+00	1.08E-05	5.27E-06	7.24E-10
217	2	Subsurface	Arsenic	mg/kg	9.97E+00	3.47E-05	1.02E-05	2.33E-09
217	2	Subsurface	Beryllium	mg/kg	5.85E-01	2.03E-06	1.39E-07	1.37E-10
217	2	Subsurface	Chromium	mg/kg	6.61E+01	2.30E-04	1.12E-04	1.54E-08
217	2	Subsurface	Cobalt	mg/kg	8.29E+01	2.88E-04	1.41E-04	1.94E-08
217	2	Subsurface	Iron	mg/kg	3.04E+04	1.06E-01	5.18E-02	7.11E-06
217	2	Subsurface	Manganese	mg/kg	9.50E+02	3.30E-03	1.29E-03	2.22E-07
217	2	Subsurface	Mercury	mg/kg	9.20E+00	3.20E-05	1.57E-05	6.41E-05
217	2	Subsurface	Nickel	mg/kg	7.88E+01	2.74E-04	1.07E-04	1.84E-08
217	2	Subsurface	Silver	mg/kg	1.61E+01	5.59E-05	2.19E-05	3.76E-09
217	2	Subsurface	Total PAH	mg/kg	4.06E-01	1.41E-06	1.80E-06	7.01E-09
217	2	Subsurface	Vanadium	mg/kg	2.87E+01	9.97E-05	2.54E-05	6.70E-09
219	1	Subsurface	Neptunium-237	pCi/g	3.31E-01	1.15E-06		7.73E-11
219	1	Subsurface	Nickel	mg/kg	6.71E+01	2.33E-04	9.14E-05	1.57E-08
219	1	Subsurface	Total PAH	mg/kg	7.50E-02	2.61E-07	3.32E-07	1.30E-09
219	1	Subsurface	Uranium-235	pCi/g	1.92E-01	6.67E-07		4.48E-11
219	1	Subsurface	Uranium-238	pCi/g	4.40E+00	1.53E-05		1.03E-09
221	1	Subsurface	Aluminum	mg/kg	2.36E+04	8.20E-02	4.02E-02	5.51E-06
221	1	Subsurface	Antimony	mg/kg	5.78E-01	2.01E-06	9.84E-07	1.35E-10
221	1	Subsurface	Arsenic	mg/kg	1.24E+01	4.30E-05	1.26E-05	2.89E-09
221	1	Subsurface	Barium	mg/kg	8.64E+02	3.00E-03	1.47E-03	2.02E-07
221	1	Subsurface	Beryllium	mg/kg	1.55E+00	5.40E-06	3.70E-07	3.63E-10
221	1	Subsurface	Chromium	mg/kg	6.57E+01	2.28E-04	1.12E-04	1.53E-08
221	1	Subsurface	Cobalt	mg/kg	7.22E+01	2.51E-04	1.23E-04	1.69E-08
221	1	Subsurface	Iron	mg/kg	3.86E+04	1.34E-01	6.57E-02	9.01E-06
221	1	Subsurface	Manganese	mg/kg	4.39E+03	1.52E-02	5.97E-03	1.02E-06
221	1	Subsurface	Mercury	mg/kg	1.23E+01	4.27E-05	2.09E-05	8.56E-05
221	1	Subsurface	Nickel	mg/kg	9.46E+01	3.29E-04	1.29E-04	2.21E-08
221	1	Subsurface	PCB, Total	mg/kg	5.00E-01	1.74E-06	2.38E-06	1.97E-07
221	1	Subsurface	Silver	mg/kg	9.74E+00	3.39E-05	1.33E-05	2.27E-09
221	1	Subsurface	Thallium	mg/kg	1.24E+00	4.30E-06	2.10E-06	2.89E-10
221	1	Subsurface	Total PAH	mg/kg	1.02E+00	3.55E-06	4.52E-06	1.77E-08
221	1	Subsurface	Uranium	mg/kg	1.46E+01	5.08E-05	2.49E-05	3.41E-09
221	1	Subsurface	Uranium-238	pCi/g	1.93E+00	6.71E-06		4.51E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
221	1	Subsurface	Vanadium	mg/kg	5.36E+01	1.86E-04	4.74E-05	1.25E-08
222	1	Subsurface	Aluminum	mg/kg	1.11E+04	3.84E-02	1.88E-02	2.58E-06
222	1	Subsurface	Arsenic	mg/kg	1.02E+01	3.54E-05	1.04E-05	2.38E-09
222	1	Subsurface	Cesium-137	pCi/g	2.99E-01	1.04E-06		6.98E-11
222	1	Subsurface	Chromium	mg/kg	6.48E+01	2.25E-04	1.10E-04	1.51E-08
222	1	Subsurface	Cobalt-60	pCi/g	6.54E-03	2.27E-08		1.53E-12
222	1	Subsurface	Manganese	mg/kg	6.33E+02	2.20E-03	8.61E-04	1.48E-07
222	1	Subsurface	Nickel	mg/kg	9.19E+01	3.19E-04	1.25E-04	2.15E-08
222	1	Subsurface	PCB, Total	mg/kg	9.67E-01	3.36E-06	4.61E-06	3.81E-07
222	1	Subsurface	Total PAH	mg/kg	1.77E-01	6.16E-07	7.84E-07	3.06E-09
222	1	Subsurface	Uranium	mg/kg	2.77E+01	9.64E-05	4.72E-05	6.48E-09
222	1	Subsurface	Uranium-234	pCi/g	7.04E+00	2.45E-05		1.64E-09
222	1	Subsurface	Uranium-235	pCi/g	7.10E-01	2.47E-06		1.66E-10
222	1	Subsurface	Uranium-238	pCi/g	1.54E+01	5.35E-05		3.59E-09
224	1	Subsurface	Arsenic	mg/kg	1.20E+01	4.15E-05	1.22E-05	2.79E-09
224	1	Subsurface	Cesium-137	pCi/g	3.70E-01	1.29E-06		8.64E-11
224	1	Subsurface	Chromium	mg/kg	6.50E+01	2.26E-04	1.11E-04	1.52E-08
224	1	Subsurface	Manganese	mg/kg	1.94E+03	6.75E-03	2.64E-03	4.54E-07
224	1	Subsurface	Mercury	mg/kg	6.89E+00	2.39E-05	1.17E-05	4.80E-05
224	1	Subsurface	Nickel	mg/kg	1.08E+02	3.74E-04	1.46E-04	2.51E-08
224	1	Subsurface	PCB, Total	mg/kg	4.75E+02	1.65E-03	2.26E-03	1.87E-04
224	1	Subsurface	Total PAH	mg/kg	4.53E+01	1.57E-04	2.00E-04	7.82E-07
224	1	Subsurface	Uranium	mg/kg	4.27E+01	1.48E-04	7.27E-05	9.97E-09
224	1	Subsurface	Uranium-235	pCi/g	2.50E-01	8.69E-07		5.84E-11
224	1	Subsurface	Uranium-238	pCi/g	2.64E+01	9.18E-05		6.17E-09
225	1	Subsurface	Arsenic	mg/kg	8.10E+00	2.82E-05	8.27E-06	1.89E-09
225	1	Subsurface	Cesium-137	pCi/g	4.17E-01	1.45E-06		9.74E-11
225	1	Subsurface	Manganese	mg/kg	8.55E+02	2.97E-03	1.16E-03	2.00E-07
225	1	Subsurface	Total PAH	mg/kg	7.79E-02	2.71E-07	3.44E-07	1.34E-09
225	1	Subsurface	Uranium-238	pCi/g	2.04E+00	7.09E-06		4.76E-10
226	1	Subsurface	Americium-241	pCi/g	1.43E+00	4.98E-06		3.34E-10
226	1	Subsurface	Antimony	mg/kg	6.60E-01	2.29E-06	1.12E-06	1.54E-10
226	1	Subsurface	Arsenic	mg/kg	7.94E+00	2.76E-05	8.11E-06	1.85E-09
226	1	Subsurface	Beryllium	mg/kg	5.44E-01	1.89E-06	1.30E-07	1.27E-10
226	1	Subsurface	Cesium-137	pCi/g	2.33E+00	8.09E-06		5.44E-10
226	1	Subsurface	Chromium	mg/kg	6.39E+01	2.22E-04	1.09E-04	1.49E-08
226	1	Subsurface	Cobalt	mg/kg	7.70E+00	2.68E-05	1.31E-05	1.80E-09
226	1	Subsurface	Cobalt-60	pCi/g	3.14E-03	1.09E-08		7.33E-13
226	1	Subsurface	Manganese	mg/kg	1.05E+03	3.64E-03	1.43E-03	2.45E-07
226	1	Subsurface	Mercury	mg/kg	9.74E+00	3.39E-05	1.66E-05	6.78E-05
226	1	Subsurface	Neptunium-237	pCi/g	1.41E+02	4.91E-04		3.30E-08
226	1	Subsurface	Nickel	mg/kg	2.18E+02	7.59E-04	2.97E-04	5.10E-08
226	1	Subsurface	PCB, Total	mg/kg	4.13E+00	1.43E-05	1.97E-05	1.63E-06
226	1	Subsurface	Plutonium-238	pCi/g	1.88E+00	6.54E-06		4.40E-10
226	1	Subsurface	Plutonium-239/240	pCi/g	5.75E+00	2.00E-05		1.34E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
226	1	Subsurface	Technetium-99	pCi/g	4.41E+01	1.53E-04		1.03E-08
226	1	Subsurface	Thorium-230	pCi/g	4.21E+01	1.46E-04		9.83E-09
226	1	Subsurface	Total PAH	mg/kg	9.19E-02	3.19E-07	4.06E-07	1.59E-09
226	1	Subsurface	Uranium	mg/kg	4.38E+02	1.52E-03	7.45E-04	1.02E-07
226	1	Subsurface	Uranium-234	pCi/g	2.44E+01	8.47E-05		5.69E-09
226	1	Subsurface	Uranium-235	pCi/g	1.26E+00	4.37E-06		2.94E-10
226	1	Subsurface	Uranium-238	pCi/g	2.48E+01	8.61E-05		5.78E-09
227	1	Subsurface	Arsenic	mg/kg	8.46E+00	2.94E-05	8.64E-06	1.98E-09
227	1	Subsurface	Beryllium	mg/kg	5.50E-01	1.91E-06	1.31E-07	1.28E-10
227	1	Subsurface	Cesium-137	pCi/g	1.67E-01	5.80E-07		3.90E-11
227	1	Subsurface	Chromium	mg/kg	5.34E+01	1.86E-04	9.09E-05	1.25E-08
227	1	Subsurface	Cobalt-60	pCi/g	1.53E-02	5.32E-08		3.57E-12
227	1	Subsurface	Neptunium-237	pCi/g	7.95E-01	2.76E-06		1.86E-10
227	1	Subsurface	Nickel	mg/kg	1.99E+02	6.92E-04	2.71E-04	4.65E-08
227	1	Subsurface	PCB, Total	mg/kg	3.94E+00	1.37E-05	1.88E-05	1.55E-06
227	1	Subsurface	Technetium-99	pCi/g	4.18E+01	1.45E-04		9.76E-09
227	1	Subsurface	Thallium	mg/kg	5.10E-01	1.77E-06	8.68E-07	1.19E-10
227	1	Subsurface	Total PAH	mg/kg	3.38E-01	1.17E-06	1.49E-06	5.83E-09
227	1	Subsurface	Uranium	mg/kg	1.02E+02	3.53E-04	1.73E-04	2.37E-08
227	1	Subsurface	Uranium-234	pCi/g	1.40E+01	4.86E-05		3.27E-09
227	1	Subsurface	Uranium-235	pCi/g	1.35E+00	4.68E-06		3.15E-10
227	1	Subsurface	Uranium-238	pCi/g	4.18E+01	1.45E-04		9.76E-09
227	2	Subsurface	Arsenic	mg/kg	8.34E+00	2.90E-05	8.52E-06	1.95E-09
227	2	Subsurface	Barium	mg/kg	1.35E+02	4.70E-04	2.30E-04	3.16E-08
227	2	Subsurface	Beryllium	mg/kg	5.63E-01	1.96E-06	1.34E-07	1.32E-10
227	2	Subsurface	Chromium	mg/kg	4.55E+01	1.58E-04	7.74E-05	1.06E-08
227	2	Subsurface	Cobalt	mg/kg	1.06E+01	3.69E-05	1.81E-05	2.48E-09
227	2	Subsurface	Cobalt-60	pCi/g	1.37E-02	4.76E-08		3.20E-12
227	2	Subsurface	Manganese	mg/kg	7.38E+02	2.56E-03	1.00E-03	1.72E-07
227	2	Subsurface	Mercury	mg/kg	8.32E+00	2.89E-05	1.42E-05	5.79E-05
227	2	Subsurface	Neptunium-237	pCi/g	3.83E-02	1.33E-07		8.95E-12
227	2	Subsurface	Nickel	mg/kg	1.23E+02	4.28E-04	1.68E-04	2.88E-08
227	2	Subsurface	PCB, Total	mg/kg	4.75E+00	1.65E-05	2.26E-05	1.87E-06
227	2	Subsurface	Silver	mg/kg	8.52E+00	2.96E-05	1.16E-05	1.99E-09
227	2	Subsurface	Total PAH	mg/kg	1.16E-01	4.02E-07	5.12E-07	2.00E-09
227	2	Subsurface	Uranium	mg/kg	1.51E+01	5.23E-05	2.56E-05	3.52E-09
227	2	Subsurface	Uranium-238	pCi/g	1.57E+00	5.47E-06		3.67E-10
227	2	Subsurface	Vanadium	mg/kg	2.46E+01	8.54E-05	2.17E-05	5.74E-09
228	1	Subsurface	Antimony	mg/kg	6.30E-01	2.19E-06	1.07E-06	1.47E-10
228	1	Subsurface	Arsenic	mg/kg	2.79E+01	9.70E-05	2.85E-05	6.52E-09
228	1	Subsurface	Beryllium	mg/kg	7.50E-01	2.61E-06	1.79E-07	1.75E-10
228	1	Subsurface	Cadmium	mg/kg	3.90E+00	1.36E-05	1.33E-07	9.11E-10
228	1	Subsurface	Chromium	mg/kg	1.89E+02	6.57E-04	3.21E-04	4.41E-08
228	1	Subsurface	Cobalt-60	pCi/g	1.29E-02	4.48E-08		3.01E-12
228	1	Subsurface	Iron	mg/kg	3.77E+04	1.31E-01	6.42E-02	8.81E-06

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
228	1	Subsurface	Manganese	mg/kg	9.97E+02	3.47E-03	1.36E-03	2.33E-07
228	1	Subsurface	Mercury	mg/kg	9.37E+00	3.26E-05	1.59E-05	6.52E-05
228	1	Subsurface	Neptunium-237	pCi/g	8.00E-01	2.78E-06		1.87E-10
228	1	Subsurface	Nickel	mg/kg	7.92E+01	2.75E-04	1.08E-04	1.85E-08
228	1	Subsurface	Silver	mg/kg	1.16E+01	4.04E-05	1.58E-05	2.72E-09
228	1	Subsurface	Total PAH	mg/kg	6.69E-02	2.32E-07	2.96E-07	1.15E-09
228	1	Subsurface	Uranium	mg/kg	1.51E+01	5.26E-05	2.57E-05	3.53E-09
228	1	Subsurface	Uranium-235	pCi/g	1.78E-01	6.19E-07		4.16E-11
228	1	Subsurface	Uranium-238	pCi/g	3.77E+00	1.31E-05		8.81E-10
229	1	Subsurface	Arsenic	mg/kg	1.17E+01	4.05E-05	1.19E-05	2.72E-09
229	1	Subsurface	Chromium	mg/kg	4.76E+01	1.65E-04	8.10E-05	1.11E-08
229	1	Subsurface	Mercury	mg/kg	9.27E+00	3.22E-05	1.58E-05	6.45E-05
229	1	Subsurface	Nickel	mg/kg	9.14E+01	3.18E-04	1.24E-04	2.13E-08
229	1	Subsurface	Total PAH	mg/kg	1.57E-01	5.45E-07	6.94E-07	2.71E-09
229	1	Subsurface	Uranium	mg/kg	1.56E+02	5.42E-04	2.65E-04	3.64E-08
229	1	Subsurface	Uranium-238	pCi/g	2.86E+00	9.94E-06		6.68E-10
229	2	Subsurface	Arsenic	mg/kg	2.12E+01	7.37E-05	2.16E-05	4.95E-09
229	2	Subsurface	Beryllium	mg/kg	7.90E-01	2.75E-06	1.88E-07	1.85E-10
229	2	Subsurface	Cesium-137	pCi/g	3.21E-01	1.12E-06		7.50E-11
229	2	Subsurface	Chromium	mg/kg	4.80E+01	1.67E-04	8.17E-05	1.12E-08
229	2	Subsurface	Mercury	mg/kg	7.30E+00	2.54E-05	1.24E-05	5.08E-05
229	2	Subsurface	Neptunium-237	pCi/g	2.87E-01	9.97E-07		6.70E-11
229	2	Subsurface	Nickel	mg/kg	9.93E+01	3.45E-04	1.35E-04	2.32E-08
229	2	Subsurface	Total PAH	mg/kg	1.69E+00	5.89E-06	7.50E-06	2.93E-08
229	2	Subsurface	Uranium	mg/kg	7.45E+01	2.59E-04	1.27E-04	1.74E-08
229	2	Subsurface	Uranium-234	pCi/g	1.22E+01	4.24E-05		2.85E-09
229	2	Subsurface	Uranium-235	pCi/g	8.40E-01	2.92E-06		1.96E-10
229	2	Subsurface	Uranium-238	pCi/g	2.49E+01	8.65E-05		5.82E-09
483	1	Subsurface	Arsenic	mg/kg	1.25E+01	4.33E-05	1.27E-05	2.91E-09
483	1	Subsurface	Nickel	mg/kg	1.17E+02	4.05E-04	1.59E-04	2.72E-08
483	1	Subsurface	Silver	mg/kg	1.12E+01	3.89E-05	1.52E-05	2.61E-09
483	1	Subsurface	Thallium	mg/kg	4.00E-01	1.39E-06	6.81E-07	9.34E-11
483	1	Subsurface	Total PAH	mg/kg	2.39E-02	8.31E-08	1.06E-07	4.13E-10
486	1	Subsurface	Cesium-137	pCi/g	1.71E+00	5.94E-06		3.99E-10
487	1	Subsurface	Cesium-137	pCi/g	1.38E+00	4.80E-06		3.22E-10
488	1	Subsurface	Arsenic	mg/kg	8.89E+00	3.09E-05	9.08E-06	2.08E-09
488	1	Subsurface	Cesium-137	pCi/g	5.20E-01	1.81E-06		1.21E-10
488	1	Subsurface	Chromium	mg/kg	5.31E+01	1.84E-04	9.03E-05	1.24E-08
488	1	Subsurface	PCB, Total	mg/kg	1.03E+01	3.58E-05	4.91E-05	4.06E-06
488	1	Subsurface	Total PAH	mg/kg	2.50E-01	8.68E-07	1.10E-06	4.31E-09
488	1	Subsurface	Uranium	mg/kg	1.48E+01	5.14E-05	2.52E-05	3.46E-09
488	1	Subsurface	Uranium-235	pCi/g	1.49E-01	5.18E-07		3.48E-11
488	1	Subsurface	Uranium-238	pCi/g	4.54E+00	1.58E-05		1.06E-09
489	1	Subsurface	Arsenic	mg/kg	1.00E+01	3.48E-05	1.02E-05	2.34E-09
489	1	Subsurface	Cadmium	mg/kg	8.70E-01	3.02E-06	2.96E-08	2.03E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
489	1	Subsurface	Nickel	mg/kg	7.88E+01	2.74E-04	1.07E-04	1.84E-08
489	1	Subsurface	Total PAH	mg/kg	8.22E-02	2.86E-07	3.64E-07	1.42E-09
489	1	Subsurface	Uranium-238	pCi/g	1.47E+00	5.11E-06		3.43E-10
492	1	Subsurface	Arsenic	mg/kg	1.47E+01	5.11E-05	1.50E-05	3.43E-09
492	1	Subsurface	Beryllium	mg/kg	1.04E+01	3.61E-05	2.48E-06	2.43E-09
492	1	Subsurface	Cadmium	mg/kg	3.14E+00	1.09E-05	1.07E-07	7.33E-10
492	1	Subsurface	Cesium-137	pCi/g	3.46E-01	1.20E-06		8.08E-11
492	1	Subsurface	Chromium	mg/kg	1.04E+03	3.61E-03	1.77E-03	2.43E-07
492	1	Subsurface	Cobalt-60	pCi/g	9.63E-03	3.35E-08		2.25E-12
492	1	Subsurface	Neptunium-237	pCi/g	2.09E-01	7.26E-07		4.88E-11
492	1	Subsurface	PCB, Total	mg/kg	4.41E+01	1.53E-04	2.10E-04	1.74E-05
492	1	Subsurface	Uranium	mg/kg	1.77E+03	6.15E-03	3.01E-03	4.13E-07
492	1	Subsurface	Uranium-234	pCi/g	5.39E+01	1.87E-04		1.26E-08
492	1	Subsurface	Uranium-235	pCi/g	5.72E+00	1.99E-05		1.34E-09
492	1	Subsurface	Uranium-238	pCi/g	3.83E+02	1.33E-03		8.95E-08
492	1	Subsurface	Vanadium	mg/kg	4.32E+01	1.50E-04	3.82E-05	1.01E-08
493	1	Subsurface	Aluminum	mg/kg	1.44E+04	5.00E-02	2.45E-02	3.36E-06
493	1	Subsurface	Arsenic	mg/kg	1.18E+01	4.10E-05	1.20E-05	2.76E-09
493	1	Subsurface	Barium	mg/kg	4.04E+02	1.40E-03	6.87E-04	9.44E-08
493	1	Subsurface	Beryllium	mg/kg	9.91E-01	3.44E-06	2.36E-07	2.31E-10
493	1	Subsurface	Cesium-137	pCi/g	2.92E-01	1.01E-06		6.82E-11
493	1	Subsurface	Chromium	mg/kg	6.61E+01	2.30E-04	1.12E-04	1.54E-08
493	1	Subsurface	Cobalt	mg/kg	3.79E+01	1.32E-04	6.45E-05	8.85E-09
493	1	Subsurface	Cobalt-60	pCi/g	1.36E-02	4.73E-08		3.18E-12
493	1	Subsurface	Manganese	mg/kg	3.55E+03	1.23E-02	4.83E-03	8.29E-07
493	1	Subsurface	Mercury	mg/kg	2.60E-01	9.04E-07	4.42E-07	1.81E-06
493	1	Subsurface	Neptunium-237	pCi/g	1.22E-01	4.24E-07		2.85E-11
493	1	Subsurface	Nickel	mg/kg	2.13E+02	7.40E-04	2.90E-04	4.98E-08
493	1	Subsurface	PCB, Total	mg/kg	2.60E-01	9.04E-07	1.24E-06	1.02E-07
493	1	Subsurface	Thallium	mg/kg	6.90E-01	2.40E-06	1.17E-06	1.61E-10
493	1	Subsurface	Total PAH	mg/kg	5.00E-01	1.74E-06	2.21E-06	8.64E-09
493	1	Subsurface	Uranium-235	pCi/g	1.65E-01	5.73E-07		3.85E-11
493	1	Subsurface	Uranium-238	pCi/g	5.50E+00	1.91E-05		1.28E-09
493	1	Subsurface	Vanadium	mg/kg	4.05E+01	1.41E-04	3.58E-05	9.46E-09
517	1	Subsurface	Aluminum	mg/kg	1.20E+04	4.17E-02	2.04E-02	2.80E-06
517	1	Subsurface	Beryllium	mg/kg	7.39E-01	2.57E-06	1.76E-07	1.73E-10
517	1	Subsurface	Chromium	mg/kg	4.91E+01	1.71E-04	8.35E-05	1.15E-08
517	1	Subsurface	Cobalt-60	pCi/g	6.39E-03	2.22E-08		1.49E-12
517	1	Subsurface	Neptunium-237	pCi/g	1.07E+00	3.72E-06		2.50E-10
517	1	Subsurface	Nickel	mg/kg	1.72E+02	5.98E-04	2.34E-04	4.02E-08
517	1	Subsurface	PCB, Total	mg/kg	5.00E-01	1.74E-06	2.38E-06	1.97E-07
517	1	Subsurface	Thallium	mg/kg	4.20E-01	1.46E-06	7.15E-07	9.81E-11
517	1	Subsurface	Uranium-235	pCi/g	1.60E-01	5.56E-07		3.74E-11
517	1	Subsurface	Uranium-238	pCi/g	3.89E+00	1.35E-05		9.09E-10
518	1	Subsurface	Arsenic	mg/kg	6.45E+00	2.24E-05	6.58E-06	1.51E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
518	1	Subsurface	Carbazole	mg/kg	1.17E+01	4.07E-05	3.99E-05	1.27E-06
518	1	Subsurface	Cobalt	mg/kg	6.80E+00	2.36E-05	1.16E-05	1.59E-09
518	1	Subsurface	Nickel	mg/kg	1.29E+01	4.47E-05	1.75E-05	3.00E-09
518	1	Subsurface	PCB, Total	mg/kg	6.30E-01	2.19E-06	3.00E-06	2.48E-07
518	1	Subsurface	Pyrene	mg/kg	3.94E+01	1.37E-04	1.74E-04	6.05E-06
518	1	Subsurface	Total PAH	mg/kg	4.64E+00	1.61E-05	2.05E-05	8.01E-08
518	1	Subsurface	Uranium	mg/kg	2.17E+02	7.54E-04	3.69E-04	5.07E-08
518	1	Subsurface	Uranium-235	pCi/g	6.74E-02	2.34E-07		1.57E-11
518	1	Subsurface	Uranium-238	pCi/g	1.51E+00	5.26E-06		3.54E-10
520	1	Subsurface	Aluminum	mg/kg	9.61E+03	3.34E-02	1.64E-02	2.24E-06
520	1	Subsurface	Arsenic	mg/kg	8.83E+00	3.07E-05	9.01E-06	2.06E-09
520	1	Subsurface	Barium	mg/kg	1.57E+02	5.46E-04	2.67E-04	3.67E-08
520	1	Subsurface	Beryllium	mg/kg	5.77E-01	2.01E-06	1.37E-07	1.35E-10
520	1	Subsurface	Cesium-137	pCi/g	8.53E-01	2.96E-06		1.99E-10
520	1	Subsurface	Chromium	mg/kg	5.95E+01	2.07E-04	1.01E-04	1.39E-08
520	1	Subsurface	Cobalt	mg/kg	1.08E+01	3.74E-05	1.83E-05	2.52E-09
520	1	Subsurface	Iron	mg/kg	1.70E+04	5.90E-02	2.89E-02	3.96E-06
520	1	Subsurface	Manganese	mg/kg	7.31E+02	2.54E-03	9.95E-04	1.71E-07
520	1	Subsurface	Mercury	mg/kg	1.07E+01	3.71E-05	1.82E-05	7.44E-05
520	1	Subsurface	Neptunium-237	pCi/g	5.37E-01	1.87E-06		1.25E-10
520	1	Subsurface	Nickel	mg/kg	2.56E+02	8.90E-04	3.48E-04	5.98E-08
520	1	Subsurface	Silver	mg/kg	1.40E+01	4.85E-05	1.90E-05	3.26E-09
520	1	Subsurface	Thorium-230	pCi/g	1.02E+01	3.55E-05		2.38E-09
520	1	Subsurface	Total PAH	mg/kg	3.18E-02	1.11E-07	1.41E-07	5.50E-10
520	1	Subsurface	Uranium	mg/kg	1.75E+01	6.08E-05	2.98E-05	4.09E-09
520	1	Subsurface	Uranium-235	pCi/g	1.21E-01	4.21E-07		2.83E-11
520	1	Subsurface	Uranium-238	pCi/g	3.69E+00	1.28E-05		8.61E-10
520	2	Subsurface	Arsenic	mg/kg	9.87E+00	3.43E-05	1.01E-05	2.31E-09
520	2	Subsurface	Chromium	mg/kg	6.67E+01	2.32E-04	1.13E-04	1.56E-08
520	2	Subsurface	Manganese	mg/kg	6.49E+02	2.25E-03	8.83E-04	1.52E-07
520	2	Subsurface	Mercury	mg/kg	1.19E+01	4.13E-05	2.02E-05	8.27E-05
520	2	Subsurface	Neptunium-237	pCi/g	5.90E-02	2.05E-07		1.38E-11
520	2	Subsurface	Nickel	mg/kg	3.10E+02	1.08E-03	4.23E-04	7.25E-08
520	2	Subsurface	Total PAH	mg/kg	2.53E-01	8.79E-07	1.12E-06	4.37E-09
520	2	Subsurface	Uranium	mg/kg	3.96E+01	1.37E-04	6.73E-05	9.24E-09
520	2	Subsurface	Uranium-238	pCi/g	1.58E+00	5.47E-06		3.68E-10
520	3	Subsurface	Arsenic	mg/kg	1.04E+01	3.63E-05	1.07E-05	2.44E-09
520	3	Subsurface	Chromium	mg/kg	6.57E+01	2.28E-04	1.12E-04	1.53E-08
520	3	Subsurface	Copper	mg/kg	1.18E+02	4.09E-04	2.00E-04	2.75E-08
520	3	Subsurface	Mercury	mg/kg	6.65E+00	2.31E-05	1.13E-05	4.63E-05
520	3	Subsurface	Nickel	mg/kg	3.31E+02	1.15E-03	4.51E-04	7.73E-08
520	3	Subsurface	Silver	mg/kg	1.26E+01	4.39E-05	1.72E-05	2.95E-09
520	3	Subsurface	Total PAH	mg/kg	7.42E-02	2.58E-07	3.28E-07	1.28E-09
520	3	Subsurface	Uranium	mg/kg	1.85E+01	6.44E-05	3.15E-05	4.33E-09
520	3	Subsurface	Uranium-238	pCi/g	1.34E+00	4.65E-06		3.13E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
520	4	Subsurface	Arsenic	mg/kg	9.35E+00	3.25E-05	9.55E-06	2.18E-09
520	4	Subsurface	Beryllium	mg/kg	7.27E-01	2.53E-06	1.73E-07	1.70E-10
520	4	Subsurface	Cadmium	mg/kg	1.17E+00	4.08E-06	3.99E-08	2.74E-10
520	4	Subsurface	Chromium	mg/kg	6.60E+01	2.29E-04	1.12E-04	1.54E-08
520	4	Subsurface	Copper	mg/kg	1.10E+02	3.82E-04	1.87E-04	2.56E-08
520	4	Subsurface	Iron	mg/kg	1.65E+04	5.74E-02	2.81E-02	3.86E-06
520	4	Subsurface	Manganese	mg/kg	5.73E+02	1.99E-03	7.80E-04	1.34E-07
520	4	Subsurface	Mercury	mg/kg	9.69E+00	3.37E-05	1.65E-05	6.75E-05
520	4	Subsurface	Neptunium-237	pCi/g	7.40E-01	2.57E-06		1.73E-10
520	4	Subsurface	Nickel	mg/kg	2.82E+02	9.79E-04	3.83E-04	6.58E-08
520	4	Subsurface	Silver	mg/kg	1.23E+01	4.26E-05	1.67E-05	2.86E-09
520	4	Subsurface	Total PAH	mg/kg	5.52E-01	1.92E-06	2.44E-06	9.54E-09
520	4	Subsurface	Uranium	mg/kg	2.27E+01	7.88E-05	3.86E-05	5.30E-09
520	4	Subsurface	Uranium-235	pCi/g	2.42E-01	8.41E-07		5.65E-11
520	4	Subsurface	Uranium-238	pCi/g	6.26E+00	2.18E-05		1.46E-09
520	4	Subsurface	Vanadium	mg/kg	4.43E+01	1.54E-04	3.92E-05	1.03E-08
520	5	Subsurface	Antimony	mg/kg	6.62E-01	2.30E-06	1.13E-06	1.55E-10
520	5	Subsurface	Arsenic	mg/kg	9.97E+00	3.46E-05	1.02E-05	2.33E-09
520	5	Subsurface	Barium	mg/kg	1.38E+02	4.79E-04	2.34E-04	3.22E-08
520	5	Subsurface	Beryllium	mg/kg	7.01E-01	2.44E-06	1.67E-07	1.64E-10
520	5	Subsurface	Chromium	mg/kg	4.94E+01	1.72E-04	8.40E-05	1.15E-08
520	5	Subsurface	Iron	mg/kg	1.70E+04	5.91E-02	2.89E-02	3.97E-06
520	5	Subsurface	Manganese	mg/kg	5.45E+02	1.89E-03	7.42E-04	1.27E-07
520	5	Subsurface	Mercury	mg/kg	6.94E+00	2.41E-05	1.18E-05	4.83E-05
520	5	Subsurface	Neptunium-237	pCi/g	1.55E-01	5.39E-07		3.62E-11
520	5	Subsurface	Nickel	mg/kg	1.12E+02	3.90E-04	1.53E-04	2.62E-08
520	5	Subsurface	Total PAH	mg/kg	3.87E-01	1.35E-06	1.71E-06	6.69E-09
520	5	Subsurface	Uranium-238	pCi/g	1.45E+00	5.04E-06		3.39E-10
520	5	Subsurface	Vanadium	mg/kg	3.01E+01	1.05E-04	2.66E-05	7.03E-09
531	1	Subsurface	Antimony	mg/kg	1.00E+00	3.48E-06	1.70E-06	2.34E-10
531	1	Subsurface	Arsenic	mg/kg	4.68E+01	1.63E-04	4.78E-05	1.09E-08
531	1	Subsurface	Cadmium	mg/kg	3.10E+00	1.08E-05	1.05E-07	7.24E-10
531	1	Subsurface	Chromium	mg/kg	5.33E+01	1.85E-04	9.07E-05	1.25E-08
531	1	Subsurface	Iron	mg/kg	5.68E+04	1.98E-01	9.67E-02	1.33E-05
531	1	Subsurface	Manganese	mg/kg	8.65E+02	3.01E-03	1.18E-03	2.02E-07
531	1	Subsurface	Nickel	mg/kg	1.62E+02	5.64E-04	2.21E-04	3.79E-08
531	1	Subsurface	Total PAH	mg/kg	5.34E-02	1.86E-07	2.36E-07	9.22E-10
531	1	Subsurface	Uranium	mg/kg	2.41E+01	8.37E-05	4.10E-05	5.62E-09
531	1	Subsurface	Uranium-235	pCi/g	1.38E-01	4.80E-07		3.22E-11
531	1	Subsurface	Uranium-238	pCi/g	3.48E+00	1.21E-05		8.13E-10
531	1	Subsurface	Zinc	mg/kg	2.45E+03	8.52E-03	4.17E-03	5.73E-07
541	1	Subsurface	Aluminum	mg/kg	1.49E+04	5.18E-02	2.54E-02	3.48E-06
541	1	Subsurface	Americium-241	pCi/g	7.53E+00	2.62E-05		1.76E-09
541	1	Subsurface	Arsenic	mg/kg	9.08E+00	3.16E-05	9.27E-06	2.12E-09
541	1	Subsurface	Barium	mg/kg	1.36E+02	4.72E-04	2.31E-04	3.17E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
541	1	Subsurface	Beryllium	mg/kg	7.40E-01	2.57E-06	1.76E-07	1.73E-10
541	1	Subsurface	Cadmium	mg/kg	1.60E+00	5.55E-06	5.43E-08	3.73E-10
541	1	Subsurface	Cesium-137	pCi/g	9.72E-01	3.38E-06		2.27E-10
541	1	Subsurface	Chromium	mg/kg	9.44E+02	3.28E-03	1.61E-03	2.21E-07
541	1	Subsurface	Cobalt-60	pCi/g	1.01E-02	3.51E-08		2.36E-12
541	1	Subsurface	Iron	mg/kg	1.88E+04	6.54E-02	3.20E-02	4.40E-06
541	1	Subsurface	Manganese	mg/kg	4.97E+02	1.73E-03	6.76E-04	1.16E-07
541	1	Subsurface	Mercury	mg/kg	2.02E-01	7.02E-07	3.44E-07	1.41E-06
541	1	Subsurface	Naphthalene	mg/kg	6.53E-01	2.27E-06	5.56E-06	5.08E-06
541	1	Subsurface	Neptunium-237	pCi/g	5.69E-02	1.98E-07		1.33E-11
541	1	Subsurface	Nickel	mg/kg	1.58E+01	5.51E-05	2.16E-05	3.70E-09
541	1	Subsurface	PCB, Total	mg/kg	6.18E+01	2.15E-04	2.94E-04	2.43E-05
541	1	Subsurface	Total PAH	mg/kg	3.15E+00	1.10E-05	1.39E-05	5.44E-08
541	1	Subsurface	Uranium	mg/kg	7.39E+03	2.57E-02	1.26E-02	1.73E-06
541	1	Subsurface	Uranium-234	pCi/g	1.44E+02	5.02E-04		3.37E-08
541	1	Subsurface	Uranium-235	pCi/g	2.26E+01	7.84E-05		5.27E-09
541	1	Subsurface	Uranium-238	pCi/g	1.11E+03	3.86E-03		2.59E-07
541	1	Subsurface	Vanadium	mg/kg	3.54E+01	1.23E-04	3.13E-05	8.26E-09
561	1	Subsurface	Aluminum	mg/kg	1.76E+04	6.12E-02	2.99E-02	4.11E-06
561	1	Subsurface	Antimony	mg/kg	8.95E-01	3.11E-06	1.52E-06	2.09E-10
561	1	Subsurface	Arsenic	mg/kg	1.63E+01	5.68E-05	1.67E-05	3.82E-09
561	1	Subsurface	Barium	mg/kg	1.44E+02	4.99E-04	2.45E-04	3.36E-08
561	1	Subsurface	Beryllium	mg/kg	6.74E-01	2.34E-06	1.61E-07	1.57E-10
561	1	Subsurface	Cesium-137	pCi/g	2.53E-01	8.79E-07		5.91E-11
561	1	Subsurface	Chromium	mg/kg	9.00E+01	3.13E-04	1.53E-04	2.10E-08
561	1	Subsurface	Cobalt	mg/kg	1.10E+01	3.83E-05	1.88E-05	2.58E-09
561	1	Subsurface	Cobalt-60	pCi/g	6.98E-02	2.43E-07		1.63E-11
561	1	Subsurface	Iron	mg/kg	2.07E+04	7.21E-02	3.53E-02	4.84E-06
561	1	Subsurface	Manganese	mg/kg	1.81E+03	6.28E-03	2.46E-03	4.22E-07
561	1	Subsurface	Neptunium-237	pCi/g	2.61E-02	9.07E-08		6.10E-12
561	1	Subsurface	Nickel	mg/kg	1.49E+01	5.19E-05	2.03E-05	3.49E-09
561	1	Subsurface	PCB, Total	mg/kg	1.01E+00	3.50E-06	4.80E-06	3.97E-07
561	1	Subsurface	Thallium	mg/kg	3.27E-01	1.14E-06	5.56E-07	7.64E-11
561	1	Subsurface	Total PAH	mg/kg	7.79E-01	2.71E-06	3.45E-06	1.35E-08
561	1	Subsurface	Uranium	mg/kg	2.65E+02	9.19E-04	4.50E-04	6.18E-08
561	1	Subsurface	Uranium-234	pCi/g	8.48E+00	2.95E-05		1.98E-09
561	1	Subsurface	Uranium-235	pCi/g	1.43E+00	4.96E-06		3.33E-10
561	1	Subsurface	Uranium-238	pCi/g	1.12E+02	3.88E-04		2.61E-08
561	1	Subsurface	Vanadium	mg/kg	3.94E+01	1.37E-04	3.49E-05	9.20E-09
561	2	Subsurface	Aluminum	mg/kg	8.86E+03	3.08E-02	1.51E-02	2.07E-06
561	2	Subsurface	Antimony	mg/kg	5.09E+00	1.77E-05	8.66E-06	1.19E-09
561	2	Subsurface	Arsenic	mg/kg	1.27E+01	4.41E-05	1.29E-05	2.96E-09
561	2	Subsurface	Beryllium	mg/kg	6.21E-01	2.16E-06	1.48E-07	1.45E-10
561	2	Subsurface	Cadmium	mg/kg	3.95E-01	1.37E-06	1.34E-08	9.23E-11
561	2	Subsurface	Cesium-137	pCi/g	4.02E-01	1.40E-06		9.39E-11

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
561	2	Subsurface	Chromium	mg/kg	3.07E+02	1.07E-03	5.22E-04	7.17E-08
561	2	Subsurface	Cobalt	mg/kg	1.09E+01	3.79E-05	1.85E-05	2.55E-09
561	2	Subsurface	Cobalt-60	pCi/g	3.02E-02	1.05E-07		7.05E-12
561	2	Subsurface	Manganese	mg/kg	1.07E+03	3.70E-03	1.45E-03	2.49E-07
561	2	Subsurface	Neptunium-237	pCi/g	4.76E-02	1.65E-07		1.11E-11
561	2	Subsurface	PCB, Total	mg/kg	1.66E+01	5.78E-05	7.92E-05	6.54E-06
561	2	Subsurface	Thallium	mg/kg	3.83E-01	1.33E-06	6.52E-07	8.95E-11
561	2	Subsurface	Total PAH	mg/kg	4.60E-01	1.60E-06	2.04E-06	7.94E-09
561	2	Subsurface	Uranium	mg/kg	1.41E+03	4.88E-03	2.39E-03	3.28E-07
561	2	Subsurface	Uranium-234	pCi/g	3.92E+01	1.36E-04		9.16E-09
561	2	Subsurface	Uranium-235	pCi/g	6.79E+00	2.36E-05		1.59E-09
561	2	Subsurface	Uranium-238	pCi/g	3.86E+02	1.34E-03		9.02E-08
561	2	Subsurface	Vanadium	mg/kg	3.32E+01	1.15E-04	2.94E-05	7.76E-09
562	1	Subsurface	Arsenic	mg/kg	1.18E+01	4.10E-05	1.20E-05	2.76E-09
562	1	Subsurface	Cesium-137	pCi/g	4.52E-01	1.57E-06		1.06E-10
562	1	Subsurface	Chromium	mg/kg	3.15E+02	1.09E-03	5.36E-04	7.36E-08
562	1	Subsurface	PCB, Total	mg/kg	2.01E+00	6.99E-06	9.58E-06	7.91E-07
562	1	Subsurface	Uranium	mg/kg	2.27E+02	7.88E-04	3.86E-04	5.30E-08
562	1	Subsurface	Uranium-235	pCi/g	5.91E-01	2.05E-06		1.38E-10
562	1	Subsurface	Uranium-238	pCi/g	4.42E+01	1.54E-04		1.03E-08
562	2	Subsurface	Cesium-137	pCi/g	3.58E-01	1.24E-06		8.36E-11
562	2	Subsurface	PCB, Total	mg/kg	1.58E+00	5.49E-06	7.53E-06	6.22E-07
562	2	Subsurface	Uranium-234	pCi/g	5.34E+01	1.86E-04		1.25E-08
562	2	Subsurface	Uranium-235	pCi/g	8.96E+00	3.11E-05		2.09E-09
562	2	Subsurface	Uranium-238	pCi/g	5.81E+02	2.02E-03		1.36E-07
562	3	Subsurface	PCB, Total	mg/kg	2.40E-01	8.34E-07	1.14E-06	9.45E-08
562	3	Subsurface	Total PAH	mg/kg	2.20E-01	7.65E-07	9.73E-07	3.80E-09
562	3	Subsurface	Uranium	mg/kg	5.89E+01	2.05E-04	1.00E-04	1.38E-08
562	3	Subsurface	Uranium-235	pCi/g	1.63E-01	5.67E-07		3.81E-11
562	3	Subsurface	Uranium-238	pCi/g	1.09E+01	3.79E-05		2.55E-09
562	4	Subsurface	Cesium-137	pCi/g	4.91E-01	1.71E-06		1.15E-10
562	4	Subsurface	Chromium	mg/kg	4.67E+01	1.62E-04	7.94E-05	1.09E-08
562	4	Subsurface	Uranium	mg/kg	2.10E+01	7.30E-05	3.57E-05	4.90E-09
562	4	Subsurface	Uranium-238	pCi/g	2.42E+00	8.41E-06		5.65E-10
562	5	Subsurface	Cesium-137	pCi/g	3.80E-01	1.32E-06		8.88E-11
562	5	Subsurface	Chromium	mg/kg	1.53E+02	5.32E-04	2.61E-04	3.58E-08
562	5	Subsurface	PCB, Total	mg/kg	9.50E-01	3.30E-06	4.53E-06	3.74E-07
562	5	Subsurface	Total PAH	mg/kg	7.05E-02	2.45E-07	3.12E-07	1.22E-09
562	5	Subsurface	Uranium	mg/kg	2.08E+02	7.23E-04	3.54E-04	4.86E-08
562	5	Subsurface	Uranium-234	pCi/g	8.57E+00	2.98E-05		2.00E-09
562	5	Subsurface	Uranium-235	pCi/g	9.50E-01	3.30E-06		2.22E-10
562	5	Subsurface	Uranium-238	pCi/g	6.24E+01	2.17E-04		1.46E-08
563	1	Subsurface	Cadmium	mg/kg	8.96E-01	3.11E-06	3.05E-08	2.09E-10
563	1	Subsurface	Cesium-137	pCi/g	2.88E-01	1.00E-06		6.73E-11
563	1	Subsurface	Chromium	mg/kg	3.34E+02	1.16E-03	5.68E-04	7.80E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.11. Noncancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
563	1	Subsurface	Neptunium-237	pCi/g	1.20E-01	4.17E-07		2.80E-11
563	1	Subsurface	PCB, Total	mg/kg	3.54E+00	1.23E-05	1.69E-05	1.39E-06
563	1	Subsurface	Uranium	mg/kg	1.51E+01	5.24E-05	2.57E-05	3.52E-09
563	1	Subsurface	Uranium-238	pCi/g	2.96E+00	1.03E-05		6.91E-10
563	2	Subsurface	Cesium-137	pCi/g	6.47E-01	2.25E-06		1.51E-10
563	2	Subsurface	Uranium-238	pCi/g	1.49E+00	5.18E-06		3.48E-10
564	1	Subsurface	Aluminum	mg/kg	1.27E+04	4.41E-02	2.16E-02	2.97E-06
564	1	Subsurface	Arsenic	mg/kg	4.30E+01	1.49E-04	4.39E-05	1.00E-08
564	1	Subsurface	Beryllium	mg/kg	2.12E+00	7.37E-06	5.05E-07	4.95E-10
564	1	Subsurface	Cadmium	mg/kg	1.96E+00	6.81E-06	6.67E-08	4.58E-10
564	1	Subsurface	Cesium-137	pCi/g	6.20E-01	2.15E-06		1.45E-10
564	1	Subsurface	Chromium	mg/kg	8.32E+01	2.89E-04	1.42E-04	1.94E-08
564	1	Subsurface	Iron	mg/kg	3.66E+04	1.27E-01	6.23E-02	8.55E-06
564	1	Subsurface	Mercury	mg/kg	2.30E-01	7.99E-07	3.91E-07	1.60E-06
564	1	Subsurface	Nickel	mg/kg	2.24E+01	7.79E-05	3.05E-05	5.23E-09
564	1	Subsurface	PCB, Total	mg/kg	1.93E+00	6.71E-06	9.20E-06	7.60E-07
564	1	Subsurface	Thallium	mg/kg	2.36E+00	8.20E-06	4.02E-06	5.51E-10
564	1	Subsurface	Thorium-230	pCi/g	5.01E+00	1.74E-05		1.17E-09
564	1	Subsurface	Uranium	mg/kg	5.83E+01	2.03E-04	9.92E-05	1.36E-08
564	1	Subsurface	Uranium-234	pCi/g	6.93E+00	2.41E-05		1.62E-09
564	1	Subsurface	Uranium-235	pCi/g	3.87E-01	1.35E-06		9.04E-11
564	1	Subsurface	Uranium-238	pCi/g	8.54E+00	2.97E-05		1.99E-09
564	1	Subsurface	Vanadium	mg/kg	8.06E+01	2.80E-04	7.13E-05	1.88E-08
565	1	Subsurface	Cesium-137	pCi/g	4.00E-01	1.39E-06		9.34E-11
567	1	Subsurface	Aluminum	mg/kg	1.29E+04	4.48E-02	2.20E-02	3.01E-06
567	1	Subsurface	Manganese	mg/kg	1.32E+03	4.59E-03	1.80E-03	3.08E-07
567	3	Subsurface	Chromium	mg/kg	5.21E+01	1.81E-04	8.87E-05	1.22E-08
567	3	Subsurface	Uranium-238	pCi/g	1.72E+00	5.98E-06		4.02E-10
567	4	Subsurface	Aluminum	mg/kg	1.25E+04	4.35E-02	2.13E-02	2.92E-06
567	4	Subsurface	Arsenic	mg/kg	1.09E+01	3.78E-05	1.11E-05	2.54E-09
567	4	Subsurface	Uranium-238	pCi/g	1.08E+00	3.76E-06		2.53E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
1	1	Subsurface	Aluminum	mg/kg	1.05E+04	1.31E-02	6.40E-03	8.78E-07	
1	1	Subsurface	Antimony	mg/kg	2.06E+00	2.56E-06	1.25E-06	1.72E-10	
1	1	Subsurface	Arsenic	mg/kg	6.74E+00	8.37E-06	2.46E-06	5.62E-10	
1	1	Subsurface	Barium	mg/kg	1.46E+02	1.82E-04	8.90E-05	1.22E-08	
1	1	Subsurface	Beryllium	mg/kg	3.37E+00	4.18E-06	2.87E-07	2.81E-10	
1	1	Subsurface	Cadmium	mg/kg	1.83E+00	2.27E-06	2.22E-08	1.52E-10	
1	1	Subsurface	Cesium-137	pCi/g	5.91E-01	1.31E+03		8.82E-02	2.00E+00
1	1	Subsurface	Chromium	mg/kg	2.32E+01	2.88E-05	1.41E-05	1.94E-09	
1	1	Subsurface	Cobalt	mg/kg	1.05E+01	1.31E-05	6.40E-06	8.78E-10	
1	1	Subsurface	Manganese	mg/kg	1.00E+03	1.25E-03	4.88E-04	8.38E-08	
1	1	Subsurface	Neptunium-237	pCi/g	4.02E-01	8.92E+02		6.00E-02	1.36E+00
1	1	Subsurface	Nickel	mg/kg	1.62E+01	2.00E-05	7.85E-06	1.35E-09	
1	1	Subsurface	PCB, Total	mg/kg	1.20E-01	1.49E-07	2.04E-07	1.69E-08	
1	1	Subsurface	Plutonium-239/240	pCi/g	6.14E+00	1.36E+04		9.16E-01	2.08E+01
1	1	Subsurface	Thallium	mg/kg	8.92E-01	1.11E-06	5.42E-07	7.44E-11	
1	1	Subsurface	Thorium-230	pCi/g	4.40E+01	9.77E+04		6.57E+00	1.49E+02
1	1	Subsurface	Trichloroethene	mg/kg	6.90E-01	8.56E-07	2.10E-06	3.16E-05	
1	1	Subsurface	Uranium-235	pCi/g	1.06E-01	2.35E+02		1.58E-02	3.58E-01
1	1	Subsurface	Uranium-238	pCi/g	1.97E+00	4.38E+03		2.95E-01	6.67E+00
1	1	Subsurface	Vanadium	mg/kg	3.29E+01	4.08E-05	1.04E-05	2.74E-09	
1	2	Subsurface	Aluminum	mg/kg	9.14E+03	1.13E-02	5.56E-03	7.63E-07	
1	2	Subsurface	Arsenic	mg/kg	7.82E+00	9.71E-06	2.85E-06	6.52E-10	
1	2	Subsurface	Barium	mg/kg	1.57E+02	1.95E-04	9.55E-05	1.31E-08	
1	2	Subsurface	Beryllium	mg/kg	5.07E+00	6.29E-06	4.31E-07	4.23E-10	
1	2	Subsurface	Cadmium	mg/kg	3.74E+00	4.64E-06	4.54E-08	3.12E-10	
1	2	Subsurface	Chromium	mg/kg	1.26E+02	1.56E-04	7.64E-05	1.05E-08	
1	2	Subsurface	cis-1,2-Dichloroethene	mg/kg	2.40E+03	2.98E-03	7.29E-03	9.55E-02	
1	2	Subsurface	Copper	mg/kg	1.13E+02	1.40E-04	6.84E-05	9.39E-09	
1	2	Subsurface	Manganese	mg/kg	7.28E+02	9.03E-04	3.54E-04	6.07E-08	
1	2	Subsurface	Mercury	mg/kg	7.06E+00	8.76E-06	4.29E-06	1.76E-05	
1	2	Subsurface	Nickel	mg/kg	4.96E+01	6.16E-05	2.41E-05	4.14E-09	
1	2	Subsurface	PCB, Total	mg/kg	1.47E+01	1.83E-05	2.50E-05	2.07E-06	
1	2	Subsurface	Silver	mg/kg	7.39E+01	9.17E-05	3.59E-05	6.16E-09	
1	2	Subsurface	Thallium	mg/kg	3.70E-01	4.59E-07	2.25E-07	3.09E-11	
1	2	Subsurface	trans-1,2-Dichloroethene	mg/kg	8.93E+00	1.11E-05	2.71E-05	3.53E-04	
1	2	Subsurface	Trichloroethene	mg/kg	6.48E+01	8.04E-05	1.97E-04	2.96E-03	
1	2	Subsurface	Vanadium	mg/kg	3.22E+01	3.99E-05	1.02E-05	2.68E-09	
1	2	Subsurface	Vinyl chloride	mg/kg	4.47E+00	5.55E-06	1.36E-05	3.93E-04	
1	3	Subsurface	Antimony	mg/kg	3.80E-01	4.72E-07	2.31E-07	3.17E-11	
1	3	Subsurface	Arsenic	mg/kg	6.24E+00	7.74E-06	2.27E-06	5.20E-10	
1	3	Subsurface	Barium	mg/kg	1.34E+02	1.66E-04	8.11E-05	1.11E-08	
1	3	Subsurface	Cadmium	mg/kg	3.32E+00	4.12E-06	4.04E-08	2.77E-10	
1	3	Subsurface	Manganese	mg/kg	5.13E+02	6.36E-04	2.49E-04	4.28E-08	
1	3	Subsurface	Nickel	mg/kg	2.16E+01	2.68E-05	1.05E-05	1.80E-09	
1	3	Subsurface	PCB, Total	mg/kg	2.08E-01	2.58E-07	3.54E-07	2.93E-08	
1	3	Subsurface	Uranium-238	pCi/g	1.73E+00	3.84E+03		2.58E-01	5.85E+00
1	4	Subsurface	Beryllium	mg/kg	7.52E-01	9.33E-07	6.40E-08	6.27E-11	
1	4	Subsurface	Cadmium	mg/kg	2.09E+00	2.59E-06	2.53E-08	1.74E-10	
1	4	Subsurface	Cesium-137	pCi/g	3.37E-01	7.48E+02		5.03E-02	1.14E+00
1	4	Subsurface	Chromium	mg/kg	7.09E+01	8.80E-05	4.31E-05	5.92E-09	
1	4	Subsurface	Cobalt-60	pCi/g	2.20E-02	4.88E+01		3.28E-03	7.43E-02

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
1	4	Subsurface	Nickel	mg/kg	2.81E+01	3.48E-05	1.36E-05	2.34E-09	
1	4	Subsurface	PCB, Total	mg/kg	9.24E-02	1.15E-07	1.57E-07	1.30E-08	
1	4	Subsurface	Thorium-230	pCi/g	5.03E+00	1.12E+04		7.50E-01	1.70E+01
1	4	Subsurface	Trichloroethene	mg/kg	1.90E-01	2.36E-07	5.77E-07	8.70E-06	
1	4	Subsurface	Vanadium	mg/kg	2.87E+01	3.56E-05	9.07E-06	2.39E-09	
1	5	Subsurface	Aluminum	mg/kg	1.20E+04	1.49E-02	7.29E-03	1.00E-06	
1	5	Subsurface	Arsenic	mg/kg	1.67E+01	2.07E-05	6.09E-06	1.39E-09	
1	5	Subsurface	Barium	mg/kg	2.15E+02	2.67E-04	1.31E-04	1.79E-08	
1	5	Subsurface	Beryllium	mg/kg	8.30E+00	1.03E-05	7.06E-07	6.92E-10	
1	5	Subsurface	Cadmium	mg/kg	2.97E+00	3.69E-06	3.61E-08	2.48E-10	
1	5	Subsurface	Cobalt	mg/kg	1.43E+01	1.78E-05	8.69E-06	1.19E-09	
1	5	Subsurface	Manganese	mg/kg	2.16E+03	2.68E-03	1.05E-03	1.80E-07	
1	5	Subsurface	Nickel	mg/kg	4.07E+01	5.05E-05	1.98E-05	3.40E-09	
1	5	Subsurface	PCB, Total	mg/kg	2.70E-01	3.35E-07	4.59E-07	3.80E-08	
1	5	Subsurface	Total PAH	mg/kg	9.83E-02	1.22E-07	1.55E-07	6.06E-10	
12	1	Subsurface	Aluminum	mg/kg	9.31E+03	1.16E-02	5.66E-03	7.76E-07	
12	1	Subsurface	Antimony	mg/kg	9.00E-01	1.12E-06	5.47E-07	7.51E-11	
12	1	Subsurface	Arsenic	mg/kg	1.43E+01	1.77E-05	5.21E-06	1.19E-09	
12	1	Subsurface	Barium	mg/kg	1.72E+02	2.14E-04	1.05E-04	1.44E-08	
12	1	Subsurface	Beryllium	mg/kg	4.75E+00	5.90E-06	4.04E-07	3.96E-10	
12	1	Subsurface	Cadmium	mg/kg	1.08E+00	1.34E-06	1.31E-08	8.99E-11	
12	1	Subsurface	Chromium	mg/kg	5.01E+01	6.22E-05	3.05E-05	4.18E-09	
12	1	Subsurface	Cobalt	mg/kg	2.47E+01	3.07E-05	1.50E-05	2.06E-09	
12	1	Subsurface	Cobalt-60	pCi/g	1.58E-02	3.51E+01		2.36E-03	5.34E-02
12	1	Subsurface	Iron	mg/kg	3.87E+04	4.80E-02	2.35E-02	3.23E-06	
12	1	Subsurface	Manganese	mg/kg	1.27E+03	1.58E-03	6.18E-04	1.06E-07	
12	1	Subsurface	Mercury	mg/kg	8.80E+00	1.09E-05	5.35E-06	2.19E-05	
12	1	Subsurface	Molybdenum	mg/kg	2.33E+01	2.89E-05	1.42E-05	1.94E-09	
12	1	Subsurface	Nickel	mg/kg	8.72E+01	1.08E-04	4.24E-05	7.27E-09	
12	1	Subsurface	PCB, Total	mg/kg	7.30E-01	9.06E-07	1.24E-06	1.03E-07	
12	1	Subsurface	Silver	mg/kg	1.13E+01	1.41E-05	5.51E-06	9.46E-10	
12	1	Subsurface	Thallium	mg/kg	1.03E+00	1.28E-06	6.27E-07	8.60E-11	
12	1	Subsurface	Total PAH	mg/kg	2.71E-01	3.36E-07	4.28E-07	1.67E-09	
12	1	Subsurface	Uranium	mg/kg	9.34E+02	1.16E-03	5.67E-04	7.79E-08	
12	1	Subsurface	Uranium-234	pCi/g	9.11E+00	2.02E+04		1.36E+00	3.08E+01
12	1	Subsurface	Uranium-235	pCi/g	1.01E+00	2.23E+03		1.50E-01	3.40E+00
12	1	Subsurface	Uranium-238	pCi/g	4.28E+01	9.50E+04		6.39E+00	1.45E+02
12	1	Subsurface	Vanadium	mg/kg	3.09E+01	3.84E-05	9.78E-06	2.58E-09	
13	1	Subsurface	Beryllium	mg/kg	6.24E-01	7.75E-07	5.31E-08	5.21E-11	
13	1	Subsurface	Cadmium	mg/kg	2.25E+00	2.79E-06	2.73E-08	1.87E-10	
13	1	Subsurface	Cobalt-60	pCi/g	4.47E-03	9.92E+00		6.67E-04	1.51E-02
13	1	Subsurface	PCB, Total	mg/kg	3.44E-01	4.27E-07	5.85E-07	4.84E-08	
13	1	Subsurface	Uranium-238	pCi/g	1.40E+00	3.11E+03		2.09E-01	4.74E+00
13	1	Subsurface	Vanadium	mg/kg	2.61E+01	3.23E-05	8.23E-06	2.17E-09	
13	2	Subsurface	Cadmium	mg/kg	1.85E+00	2.29E-06	2.24E-08	1.54E-10	
13	2	Subsurface	Cobalt-60	pCi/g	3.24E-03	7.19E+00		4.83E-04	1.09E-02
13	3	Subsurface	Beryllium	mg/kg	6.15E-01	7.63E-07	5.23E-08	5.13E-11	
13	3	Subsurface	Cadmium	mg/kg	2.11E+00	2.61E-06	2.56E-08	1.76E-10	
13	3	Subsurface	Cobalt-60	pCi/g	1.95E-02	4.33E+01		2.91E-03	6.59E-02
13	3	Subsurface	Vanadium	mg/kg	3.31E+01	4.11E-05	1.05E-05	2.76E-09	
13	4	Subsurface	Cobalt-60	pCi/g	8.06E-02	1.79E+02		1.20E-02	2.72E-01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
13	4	Subsurface	Neptunium-237	pCi/g	1.24E-01	2.75E+02		1.85E-02	4.19E-01
13	4	Subsurface	PCB, Total	mg/kg	3.10E-01	3.85E-07	5.27E-07	4.36E-08	
13	4	Subsurface	Uranium-235	pCi/g	1.05E-01	2.33E+02		1.57E-02	3.55E-01
13	4	Subsurface	Uranium-238	pCi/g	3.14E+00	6.97E+03		4.69E-01	1.06E+01
13	5	Subsurface	Aluminum	mg/kg	9.83E+03	1.22E-02	5.97E-03	8.20E-07	
13	5	Subsurface	Antimony	mg/kg	8.20E-01	1.02E-06	4.98E-07	6.84E-11	
13	5	Subsurface	Cadmium	mg/kg	2.36E+00	2.92E-06	2.86E-08	1.97E-10	
13	5	Subsurface	Cesium-137	pCi/g	3.97E-01	8.81E+02		5.92E-02	1.34E+00
13	5	Subsurface	Chromium	mg/kg	1.20E+02	1.49E-04	7.31E-05	1.00E-08	
13	5	Subsurface	Cobalt-60	pCi/g	5.74E-03	1.27E+01		8.56E-04	1.94E-02
13	5	Subsurface	Neptunium-237	pCi/g	7.52E-02	1.67E+02		1.12E-02	2.54E-01
13	5	Subsurface	Nickel	mg/kg	1.01E+02	1.25E-04	4.92E-05	8.43E-09	
13	5	Subsurface	PCB, Total	mg/kg	9.20E-01	1.14E-06	1.57E-06	1.29E-07	
13	5	Subsurface	Total PAH	mg/kg	6.65E-02	8.25E-08	1.05E-07	4.10E-10	
13	5	Subsurface	Uranium	mg/kg	1.19E+02	1.48E-04	7.24E-05	9.94E-09	
13	5	Subsurface	Uranium-238	pCi/g	2.21E+00	4.91E+03		3.30E-01	7.47E+00
13	6	Subsurface	Beryllium	mg/kg	5.72E-01	7.10E-07	4.87E-08	4.77E-11	
13	6	Subsurface	Cadmium	mg/kg	3.94E+00	4.89E-06	4.79E-08	3.29E-10	
13	6	Subsurface	Cesium-137	pCi/g	2.33E-01	5.17E+02		3.48E-02	7.87E-01
13	6	Subsurface	Cobalt-60	pCi/g	8.48E-03	1.88E+01		1.27E-03	2.87E-02
13	6	Subsurface	Manganese	mg/kg	8.34E+02	1.03E-03	4.05E-04	6.95E-08	
13	6	Subsurface	Neptunium-237	pCi/g	6.52E-02	1.45E+02		9.73E-03	2.20E-01
13	6	Subsurface	PCB, Total	mg/kg	2.63E-01	3.26E-07	4.48E-07	3.70E-08	
13	6	Subsurface	Silver	mg/kg	2.58E+00	3.20E-06	1.25E-06	2.15E-10	
13	6	Subsurface	Total PAH	mg/kg	8.00E-01	9.93E-07	1.26E-06	4.93E-09	
13	6	Subsurface	Uranium-238	pCi/g	3.63E+00	8.07E+03		5.42E-01	1.23E+01
13	7	Subsurface	PCB, Total	mg/kg	5.50E-01	6.83E-07	9.36E-07	7.73E-08	
13	7	Subsurface	Uranium-238	pCi/g	4.82E+00	1.07E+04		7.19E-01	1.63E+01
13	9	Subsurface	Cesium-137	pCi/g	3.04E-01	6.75E+02		4.54E-02	1.03E+00
13	9	Subsurface	Neptunium-237	pCi/g	6.84E-01	1.52E+03		1.02E-01	2.31E+00
13	9	Subsurface	Uranium	mg/kg	1.82E+01	2.26E-05	1.11E-05	1.52E-09	
13	9	Subsurface	Uranium-235	pCi/g	2.22E-01	4.93E+02		3.31E-02	7.50E-01
13	9	Subsurface	Uranium-238	pCi/g	4.75E+00	1.06E+04		7.09E-01	1.61E+01
13	10	Subsurface	Cobalt-60	pCi/g	1.49E-02	3.31E+01		2.22E-03	5.03E-02
13	11	Subsurface	Cobalt-60	pCi/g	1.30E-02	2.89E+01		1.94E-03	4.39E-02
13	12	Subsurface	Barium	mg/kg	1.29E+02	1.61E-04	7.86E-05	1.08E-08	
13	12	Subsurface	Beryllium	mg/kg	6.25E-01	7.76E-07	5.32E-08	5.21E-11	
13	12	Subsurface	Cadmium	mg/kg	2.59E+00	3.22E-06	3.15E-08	2.16E-10	
13	12	Subsurface	PCB, Total	mg/kg	7.02E-01	8.71E-07	1.19E-06	9.87E-08	
13	13	Subsurface	Cobalt-60	pCi/g	2.04E-02	4.53E+01		3.04E-03	6.89E-02
13	14	Subsurface	Uranium-235	pCi/g	2.03E-01	4.51E+02		3.03E-02	6.86E-01
13	14	Subsurface	Uranium-238	pCi/g	4.46E+00	9.91E+03		6.66E-01	1.51E+01
14	1	Subsurface	Americium-241	pCi/g	1.06E+00	2.36E+03		1.58E-01	3.59E+00
14	1	Subsurface	Antimony	mg/kg	6.30E-01	7.82E-07	3.83E-07	5.26E-11	
14	1	Subsurface	Arsenic	mg/kg	1.13E+01	1.40E-05	4.10E-06	9.38E-10	
14	1	Subsurface	Beryllium	mg/kg	6.84E-01	8.49E-07	5.82E-08	5.71E-11	
14	1	Subsurface	Chromium	mg/kg	6.56E+01	8.15E-05	3.99E-05	5.47E-09	
14	1	Subsurface	Cobalt-60	pCi/g	2.42E-02	5.37E+01		3.61E-03	8.18E-02
14	1	Subsurface	Iron	mg/kg	4.24E+04	5.26E-02	2.58E-02	3.54E-06	
14	1	Subsurface	Manganese	mg/kg	8.41E+02	1.04E-03	4.09E-04	7.01E-08	
14	1	Subsurface	Neptunium-237	pCi/g	2.64E-01	5.86E+02		3.94E-02	8.92E-01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	1	Subsurface	Nickel	mg/kg	7.40E+02	9.18E-04	3.60E-04	6.17E-08	
14	1	Subsurface	PCB, Total	mg/kg	5.00E-01	6.21E-07	8.51E-07	7.03E-08	
14	1	Subsurface	Silver	mg/kg	1.67E+01	2.07E-05	8.11E-06	1.39E-09	
14	1	Subsurface	Technetium-99	pCi/g	4.06E+02	9.01E+05		6.06E+01	1.37E+03
14	1	Subsurface	Uranium	mg/kg	2.56E+02	3.18E-04	1.56E-04	2.14E-08	
14	1	Subsurface	Uranium-235	pCi/g	1.99E-01	4.42E+02		2.97E-02	6.72E-01
14	1	Subsurface	Uranium-238	pCi/g	6.24E+00	1.38E+04		9.30E-01	2.11E+01
14	1	Subsurface	Vanadium	mg/kg	2.99E+01	3.72E-05	9.46E-06	2.50E-09	
14	2	Subsurface	Aluminum	mg/kg	1.00E+04	1.24E-02	6.09E-03	8.36E-07	
14	2	Subsurface	Antimony	mg/kg	3.51E+00	4.35E-06	2.13E-06	2.92E-10	
14	2	Subsurface	Arsenic	mg/kg	1.47E+01	1.83E-05	5.37E-06	1.23E-09	
14	2	Subsurface	Beryllium	mg/kg	6.75E-01	8.38E-07	5.74E-08	5.63E-11	
14	2	Subsurface	Cadmium	mg/kg	1.75E+00	2.17E-06	2.13E-08	1.46E-10	
14	2	Subsurface	Chromium	mg/kg	7.24E+01	8.98E-05	4.40E-05	6.04E-09	
14	2	Subsurface	Copper	mg/kg	1.92E+02	2.38E-04	1.17E-04	1.60E-08	
14	2	Subsurface	Iron	mg/kg	4.38E+04	5.43E-02	2.66E-02	3.65E-06	
14	2	Subsurface	Manganese	mg/kg	1.51E+03	1.87E-03	7.34E-04	1.26E-07	
14	2	Subsurface	Mercury	mg/kg	8.88E+00	1.10E-05	5.40E-06	2.21E-05	
14	2	Subsurface	Neptunium-237	pCi/g	1.70E+00	3.77E+03		2.53E-01	5.74E+00
14	2	Subsurface	Nickel	mg/kg	8.41E+02	1.04E-03	4.09E-04	7.01E-08	
14	2	Subsurface	PCB, Total	mg/kg	5.00E+00	6.21E-06	8.51E-06	7.03E-07	
14	2	Subsurface	Selenium	mg/kg	2.74E+01	3.40E-05	1.67E-05	2.29E-09	
14	2	Subsurface	Silver	mg/kg	9.58E+00	1.19E-05	4.66E-06	7.99E-10	
14	2	Subsurface	Thorium-230	pCi/g	7.70E+00	1.71E+04		1.15E+00	2.60E+01
14	2	Subsurface	Total PAH	mg/kg	2.31E-01	2.87E-07	3.65E-07	1.42E-09	
14	2	Subsurface	Uranium	mg/kg	3.64E+02	4.52E-04	2.21E-04	3.04E-08	
14	2	Subsurface	Uranium-234	pCi/g	4.81E+01	1.07E+05		7.17E+00	1.62E+02
14	2	Subsurface	Uranium-235	pCi/g	3.41E+00	7.57E+03		5.09E-01	1.15E+01
14	2	Subsurface	Uranium-238	pCi/g	8.96E+01	1.99E+05		1.34E+01	3.03E+02
14	3	Subsurface	Arsenic	mg/kg	1.91E+01	2.36E-05	6.95E-06	1.59E-09	
14	3	Subsurface	Beryllium	mg/kg	2.07E+00	2.57E-06	1.76E-07	1.73E-10	
14	3	Subsurface	Chromium	mg/kg	7.01E+01	8.70E-05	4.26E-05	5.85E-09	
14	3	Subsurface	Cobalt	mg/kg	1.63E+01	2.02E-05	9.88E-06	1.36E-09	
14	3	Subsurface	Copper	mg/kg	1.30E+02	1.61E-04	7.88E-05	1.08E-08	
14	3	Subsurface	Iron	mg/kg	4.64E+04	5.76E-02	2.82E-02	3.87E-06	
14	3	Subsurface	Manganese	mg/kg	1.24E+03	1.53E-03	6.01E-04	1.03E-07	
14	3	Subsurface	Mercury	mg/kg	7.48E+00	9.28E-06	4.55E-06	1.86E-05	
14	3	Subsurface	Molybdenum	mg/kg	2.23E+01	2.77E-05	1.36E-05	1.86E-09	
14	3	Subsurface	Neptunium-237	pCi/g	1.61E-01	3.57E+02		2.40E-02	5.44E-01
14	3	Subsurface	Nickel	mg/kg	6.64E+02	8.24E-04	3.23E-04	5.53E-08	
14	3	Subsurface	PCB, Total	mg/kg	8.75E+00	1.09E-05	1.49E-05	1.23E-06	
14	3	Subsurface	Silver	mg/kg	1.34E+01	1.66E-05	6.52E-06	1.12E-09	
14	3	Subsurface	Uranium	mg/kg	2.19E+02	2.71E-04	1.33E-04	1.82E-08	
14	3	Subsurface	Uranium-234	pCi/g	4.43E+00	9.82E+03		6.60E-01	1.50E+01
14	3	Subsurface	Uranium-235	pCi/g	2.46E-01	5.46E+02		3.67E-02	8.31E-01
14	3	Subsurface	Uranium-238	pCi/g	1.08E+01	2.40E+04		1.61E+00	3.65E+01
14	3	Subsurface	Vanadium	mg/kg	6.19E+01	7.69E-05	1.96E-05	5.17E-09	
14	4	Subsurface	Aluminum	mg/kg	1.18E+04	1.46E-02	7.16E-03	9.83E-07	
14	4	Subsurface	Antimony	mg/kg	3.29E+00	4.08E-06	2.00E-06	2.74E-10	
14	4	Subsurface	Arsenic	mg/kg	1.24E+01	1.54E-05	4.54E-06	1.04E-09	
14	4	Subsurface	Chromium	mg/kg	5.66E+01	7.02E-05	3.44E-05	4.72E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	4	Subsurface	Cobalt	mg/kg	1.46E+01	1.81E-05	8.88E-06	1.22E-09	
14	4	Subsurface	Copper	mg/kg	3.59E+02	4.45E-04	2.18E-04	2.99E-08	
14	4	Subsurface	Iron	mg/kg	3.89E+04	4.82E-02	2.36E-02	3.24E-06	
14	4	Subsurface	Manganese	mg/kg	9.96E+02	1.24E-03	4.84E-04	8.31E-08	
14	4	Subsurface	Mercury	mg/kg	8.00E+00	9.93E-06	4.86E-06	1.99E-05	
14	4	Subsurface	Neptunium-237	pCi/g	2.03E+00	4.51E+03		3.03E-01	6.86E+00
14	4	Subsurface	Nickel	mg/kg	7.31E+02	9.07E-04	3.55E-04	6.09E-08	
14	4	Subsurface	PCB, Total	mg/kg	8.28E+00	1.03E-05	1.41E-05	1.16E-06	
14	4	Subsurface	Silver	mg/kg	1.17E+01	1.45E-05	5.69E-06	9.76E-10	
14	4	Subsurface	Thorium-230	pCi/g	5.43E+00	1.21E+04		8.10E-01	1.83E+01
14	4	Subsurface	Total PAH	mg/kg	1.89E-01	2.35E-07	2.99E-07	1.17E-09	
14	4	Subsurface	Uranium	mg/kg	3.72E+02	4.62E-04	2.26E-04	3.10E-08	
14	4	Subsurface	Uranium-234	pCi/g	8.61E+01	1.91E+05		1.28E+01	2.91E+02
14	4	Subsurface	Uranium-235	pCi/g	6.10E+00	1.35E+04		9.11E-01	2.06E+01
14	4	Subsurface	Uranium-238	pCi/g	1.29E+02	2.85E+05		1.92E+01	4.34E+02
14	5	Subsurface	Antimony	mg/kg	1.60E+00	1.99E-06	9.75E-07	1.34E-10	
14	5	Subsurface	Arsenic	mg/kg	1.27E+01	1.57E-05	4.61E-06	1.06E-09	
14	5	Subsurface	Beryllium	mg/kg	7.93E-01	9.84E-07	6.75E-08	6.62E-11	
14	5	Subsurface	Cadmium	mg/kg	2.59E+00	3.21E-06	3.14E-08	2.16E-10	
14	5	Subsurface	Chromium	mg/kg	4.70E+01	5.83E-05	2.85E-05	3.92E-09	
14	5	Subsurface	Cobalt	mg/kg	1.11E+01	1.38E-05	6.74E-06	9.25E-10	
14	5	Subsurface	Copper	mg/kg	1.34E+02	1.66E-04	8.11E-05	1.11E-08	
14	5	Subsurface	Iron	mg/kg	3.93E+04	4.88E-02	2.39E-02	3.28E-06	
14	5	Subsurface	Manganese	mg/kg	1.06E+03	1.31E-03	5.14E-04	8.83E-08	
14	5	Subsurface	Mercury	mg/kg	1.09E+01	1.36E-05	6.65E-06	2.72E-05	
14	5	Subsurface	Neptunium-237	pCi/g	1.74E+00	3.86E+03		2.60E-01	5.88E+00
14	5	Subsurface	Nickel	mg/kg	4.63E+02	5.74E-04	2.25E-04	3.86E-08	
14	5	Subsurface	PCB, Total	mg/kg	7.64E+00	9.48E-06	1.30E-05	1.07E-06	
14	5	Subsurface	Silver	mg/kg	1.29E+01	1.60E-05	6.26E-06	1.07E-09	
14	5	Subsurface	Technetium-99	pCi/g	7.80E+01	1.73E+05		1.16E+01	2.63E+02
14	5	Subsurface	Thallium	mg/kg	3.52E-01	4.37E-07	2.14E-07	2.94E-11	
14	5	Subsurface	Thorium-230	pCi/g	1.09E+01	2.42E+04		1.62E+00	3.68E+01
14	5	Subsurface	Total PAH	mg/kg	9.48E-02	1.18E-07	1.50E-07	5.85E-10	
14	5	Subsurface	Uranium	mg/kg	2.62E+02	3.26E-04	1.59E-04	2.19E-08	
14	5	Subsurface	Uranium-234	pCi/g	4.03E+01	8.94E+04		6.01E+00	1.36E+02
14	5	Subsurface	Uranium-235	pCi/g	2.57E+00	5.71E+03		3.84E-01	8.69E+00
14	5	Subsurface	Uranium-238	pCi/g	7.26E+01	1.61E+05		1.08E+01	2.45E+02
14	5	Subsurface	Vanadium	mg/kg	3.68E+01	4.57E-05	1.16E-05	3.07E-09	
14	6	Subsurface	Antimony	mg/kg	2.13E+00	2.64E-06	1.29E-06	1.78E-10	
14	6	Subsurface	Arsenic	mg/kg	1.05E+01	1.30E-05	3.83E-06	8.76E-10	
14	6	Subsurface	Cadmium	mg/kg	6.57E-01	8.16E-07	7.99E-09	5.48E-11	
14	6	Subsurface	Chromium	mg/kg	4.39E+02	5.45E-04	2.67E-04	3.67E-08	
14	6	Subsurface	Copper	mg/kg	1.22E+02	1.52E-04	7.43E-05	1.02E-08	
14	6	Subsurface	Manganese	mg/kg	6.55E+02	8.12E-04	3.18E-04	5.46E-08	
14	6	Subsurface	Mercury	mg/kg	3.47E-01	4.31E-07	2.11E-07	8.63E-07	
14	6	Subsurface	Neptunium-237	pCi/g	2.04E+00	4.52E+03		3.04E-01	6.89E+00
14	6	Subsurface	Nickel	mg/kg	9.63E+02	1.20E-03	4.68E-04	8.04E-08	
14	6	Subsurface	PCB, Total	mg/kg	5.00E+00	6.21E-06	8.51E-06	7.03E-07	
14	6	Subsurface	Silver	mg/kg	1.47E+01	1.82E-05	7.12E-06	1.22E-09	
14	6	Subsurface	Uranium	mg/kg	5.77E+02	7.16E-04	3.50E-04	4.81E-08	
14	6	Subsurface	Uranium-234	pCi/g	2.59E+01	5.75E+04		3.87E+00	8.76E+01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	6	Subsurface	Uranium-235	pCi/g	1.79E+00	3.97E+03		2.67E-01	6.04E+00
14	6	Subsurface	Uranium-238	pCi/g	4.11E+01	9.12E+04		6.13E+00	1.39E+02
14	7	Subsurface	Antimony	mg/kg	6.02E-01	7.47E-07	3.66E-07	5.02E-11	
14	7	Subsurface	Arsenic	mg/kg	1.12E+01	1.39E-05	4.09E-06	9.37E-10	
14	7	Subsurface	Cadmium	mg/kg	2.11E+00	2.62E-06	2.56E-08	1.76E-10	
14	7	Subsurface	Chromium	mg/kg	6.46E+01	8.01E-05	3.92E-05	5.39E-09	
14	7	Subsurface	Manganese	mg/kg	5.99E+02	7.44E-04	2.91E-04	5.00E-08	
14	7	Subsurface	Mercury	mg/kg	7.82E+00	9.71E-06	4.75E-06	1.94E-05	
14	7	Subsurface	Neptunium-237	pCi/g	1.16E+00	2.58E+03		1.73E-01	3.92E+00
14	7	Subsurface	Nickel	mg/kg	1.22E+03	1.52E-03	5.95E-04	1.02E-07	
14	7	Subsurface	PCB, Total	mg/kg	7.60E+00	9.44E-06	1.29E-05	1.07E-06	
14	7	Subsurface	Silver	mg/kg	1.63E+01	2.02E-05	7.90E-06	1.36E-09	
14	7	Subsurface	Total PAH	mg/kg	4.88E-02	6.06E-08	7.71E-08	3.01E-10	
14	7	Subsurface	Uranium	mg/kg	3.33E+02	4.13E-04	2.02E-04	2.78E-08	
14	7	Subsurface	Uranium-234	pCi/g	9.86E+00	2.19E+04		1.47E+00	3.33E+01
14	7	Subsurface	Uranium-235	pCi/g	7.29E-01	1.62E+03		1.09E-01	2.46E+00
14	7	Subsurface	Uranium-238	pCi/g	1.60E+01	3.56E+04		2.39E+00	5.42E+01
14	8	Subsurface	Antimony	mg/kg	5.01E-01	6.22E-07	3.04E-07	4.18E-11	
14	8	Subsurface	Arsenic	mg/kg	1.22E+01	1.51E-05	4.44E-06	1.02E-09	
14	8	Subsurface	Chromium	mg/kg	5.14E+01	6.38E-05	3.12E-05	4.29E-09	
14	8	Subsurface	Copper	mg/kg	1.17E+02	1.45E-04	7.11E-05	9.76E-09	
14	8	Subsurface	Mercury	mg/kg	8.70E+00	1.08E-05	5.29E-06	2.16E-05	
14	8	Subsurface	Neptunium-237	pCi/g	6.77E-01	1.50E+03		1.01E-01	2.29E+00
14	8	Subsurface	Nickel	mg/kg	6.73E+02	8.35E-04	3.27E-04	5.61E-08	
14	8	Subsurface	PCB, Total	mg/kg	5.00E+00	6.21E-06	8.51E-06	7.03E-07	
14	8	Subsurface	Silver	mg/kg	1.18E+01	1.46E-05	5.74E-06	9.84E-10	
14	8	Subsurface	Total PAH	mg/kg	4.13E-02	5.13E-08	6.53E-08	2.55E-10	
14	8	Subsurface	Uranium	mg/kg	4.05E+02	5.03E-04	2.46E-04	3.38E-08	
14	8	Subsurface	Uranium-235	pCi/g	1.61E-01	3.57E+02		2.40E-02	5.44E-01
14	8	Subsurface	Uranium-238	pCi/g	3.97E+00	8.81E+03		5.92E-01	1.34E+01
14	9	Subsurface	Antimony	mg/kg	2.00E+00	2.48E-06	1.22E-06	1.67E-10	
14	9	Subsurface	Arsenic	mg/kg	1.39E+01	1.72E-05	5.06E-06	1.16E-09	
14	9	Subsurface	Cadmium	mg/kg	9.40E-01	1.17E-06	1.14E-08	7.84E-11	
14	9	Subsurface	Cesium-137	pCi/g	4.53E-01	1.01E+03		6.76E-02	1.53E+00
14	9	Subsurface	Chromium	mg/kg	4.64E+01	5.76E-05	2.82E-05	3.87E-09	
14	9	Subsurface	Mercury	mg/kg	1.13E+00	1.40E-06	6.87E-07	2.81E-06	
14	9	Subsurface	Neptunium-237	pCi/g	1.09E+01	2.43E+04		1.63E+00	3.69E+01
14	9	Subsurface	Nickel	mg/kg	9.43E+02	1.17E-03	4.59E-04	7.87E-08	
14	9	Subsurface	PCB, Total	mg/kg	6.84E+00	8.49E-06	1.16E-05	9.62E-07	
14	9	Subsurface	Technetium-99	pCi/g	1.96E+02	4.35E+05		2.92E+01	6.62E+02
14	9	Subsurface	Total PAH	mg/kg	4.87E-01	6.05E-07	7.70E-07	3.01E-09	
14	9	Subsurface	Uranium	mg/kg	1.46E+03	1.82E-03	8.90E-04	1.22E-07	
14	9	Subsurface	Uranium-234	pCi/g	8.32E+02	1.85E+06		1.24E+02	2.81E+03
14	9	Subsurface	Uranium-235	pCi/g	5.46E+01	1.21E+05		8.14E+00	1.84E+02
14	9	Subsurface	Uranium-238	pCi/g	1.20E+03	2.66E+06		1.79E+02	4.05E+03
14	10	Subsurface	Antimony	mg/kg	8.55E-01	1.06E-06	5.20E-07	7.13E-11	
14	10	Subsurface	Arsenic	mg/kg	1.15E+01	1.43E-05	4.20E-06	9.60E-10	
14	10	Subsurface	Barium	mg/kg	1.39E+02	1.73E-04	8.45E-05	1.16E-08	
14	10	Subsurface	Chromium	mg/kg	4.47E+01	5.55E-05	2.72E-05	3.73E-09	
14	10	Subsurface	Copper	mg/kg	1.37E+02	1.70E-04	8.33E-05	1.14E-08	
14	10	Subsurface	Iron	mg/kg	2.69E+04	3.34E-02	1.64E-02	2.25E-06	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	10	Subsurface	Manganese	mg/kg	7.11E+02	8.82E-04	3.46E-04	5.93E-08	
14	10	Subsurface	Mercury	mg/kg	2.49E+01	3.09E-05	1.51E-05	6.19E-05	
14	10	Subsurface	Neptunium-237	pCi/g	2.05E+00	4.54E+03		3.05E-01	6.91E+00
14	10	Subsurface	Nickel	mg/kg	5.80E+02	7.19E-04	2.82E-04	4.83E-08	
14	10	Subsurface	PCB, Total	mg/kg	9.32E+00	1.16E-05	1.59E-05	1.31E-06	
14	10	Subsurface	Silver	mg/kg	1.07E+01	1.33E-05	5.21E-06	8.93E-10	
14	10	Subsurface	Total PAH	mg/kg	2.10E-01	2.61E-07	3.32E-07	1.30E-09	
14	10	Subsurface	Uranium	mg/kg	2.80E+02	3.47E-04	1.70E-04	2.33E-08	
14	10	Subsurface	Uranium-234	pCi/g	1.92E+01	4.26E+04		2.86E+00	6.49E+01
14	10	Subsurface	Uranium-235	pCi/g	1.40E+00	3.10E+03		2.09E-01	4.72E+00
14	10	Subsurface	Uranium-238	pCi/g	2.68E+01	5.96E+04		4.00E+00	9.07E+01
15	1	Subsurface	Antimony	mg/kg	6.40E-01	7.94E-07	3.89E-07	5.34E-11	
15	1	Subsurface	Arsenic	mg/kg	1.33E+01	1.65E-05	4.83E-06	1.11E-09	
15	1	Subsurface	Chromium	mg/kg	5.61E+01	6.96E-05	3.41E-05	4.68E-09	
15	1	Subsurface	Copper	mg/kg	1.41E+02	1.75E-04	8.57E-05	1.18E-08	
15	1	Subsurface	Iron	mg/kg	2.97E+04	3.69E-02	1.81E-02	2.48E-06	
15	1	Subsurface	Manganese	mg/kg	6.01E+02	7.46E-04	2.92E-04	5.02E-08	
15	1	Subsurface	Nickel	mg/kg	1.33E+02	1.65E-04	6.48E-05	1.11E-08	
15	1	Subsurface	PCB, Total	mg/kg	7.80E-02	9.68E-08	1.33E-07	1.10E-08	
15	1	Subsurface	Silver	mg/kg	1.23E+01	1.53E-05	5.97E-06	1.03E-09	
15	1	Subsurface	Technetium-99	pCi/g	1.06E+02	2.36E+05		1.59E+01	3.59E+02
15	1	Subsurface	Thallium	mg/kg	6.10E-01	7.57E-07	3.71E-07	5.09E-11	
15	1	Subsurface	Total PAH	mg/kg	1.16E+00	1.43E-06	1.83E-06	7.13E-09	
15	1	Subsurface	Uranium	mg/kg	3.05E+01	3.79E-05	1.85E-05	2.54E-09	
15	1	Subsurface	Uranium-238	pCi/g	1.30E+00	2.87E+03		1.93E-01	4.38E+00
15	2	Subsurface	Aluminum	mg/kg	1.68E+04	2.09E-02	1.02E-02	1.40E-06	
15	2	Subsurface	Antimony	mg/kg	6.60E-01	8.19E-07	4.01E-07	5.51E-11	
15	2	Subsurface	Arsenic	mg/kg	1.63E+01	2.02E-05	5.93E-06	1.36E-09	
15	2	Subsurface	Cadmium	mg/kg	1.58E+00	1.96E-06	1.92E-08	1.32E-10	
15	2	Subsurface	Chromium	mg/kg	5.90E+01	7.32E-05	3.59E-05	4.92E-09	
15	2	Subsurface	Iron	mg/kg	3.89E+04	4.83E-02	2.36E-02	3.24E-06	
15	2	Subsurface	Manganese	mg/kg	1.37E+03	1.70E-03	6.66E-04	1.14E-07	
15	2	Subsurface	Mercury	mg/kg	9.33E+00	1.16E-05	5.67E-06	2.32E-05	
15	2	Subsurface	Neptunium-237	pCi/g	5.56E-01	1.23E+03		8.30E-02	1.88E+00
15	2	Subsurface	Nickel	mg/kg	3.75E+02	4.65E-04	1.82E-04	3.13E-08	
15	2	Subsurface	PCB, Total	mg/kg	3.30E-01	4.10E-07	5.62E-07	4.64E-08	
15	2	Subsurface	Silver	mg/kg	1.06E+01	1.32E-05	5.16E-06	8.86E-10	
15	2	Subsurface	Total PAH	mg/kg	2.11E+00	2.62E-06	3.33E-06	1.30E-08	
15	2	Subsurface	Uranium	mg/kg	1.32E+02	1.63E-04	8.00E-05	1.10E-08	
15	2	Subsurface	Uranium-234	pCi/g	6.51E+00	1.45E+04		9.71E-01	2.20E+01
15	2	Subsurface	Uranium-235	pCi/g	3.80E-01	8.44E+02		5.67E-02	1.28E+00
15	2	Subsurface	Uranium-238	pCi/g	1.21E+01	2.69E+04		1.81E+00	4.09E+01
15	2	Subsurface	Vanadium	mg/kg	3.72E+01	4.62E-05	1.18E-05	3.10E-09	
15	3	Subsurface	Antimony	mg/kg	1.65E+01	2.05E-05	1.01E-05	1.38E-09	
15	3	Subsurface	Arsenic	mg/kg	3.65E+01	4.53E-05	1.33E-05	3.05E-09	
15	3	Subsurface	Beryllium	mg/kg	5.63E-01	6.99E-07	4.79E-08	4.70E-11	
15	3	Subsurface	Cadmium	mg/kg	7.30E+00	9.07E-06	8.88E-08	6.09E-10	
15	3	Subsurface	Chromium	mg/kg	8.13E+01	1.01E-04	4.94E-05	6.78E-09	
15	3	Subsurface	Cobalt	mg/kg	2.37E+01	2.94E-05	1.44E-05	1.98E-09	
15	3	Subsurface	Copper	mg/kg	1.39E+03	1.73E-03	8.47E-04	1.16E-07	
15	3	Subsurface	Iron	mg/kg	9.52E+04	1.18E-01	5.78E-02	7.94E-06	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	3	Subsurface	Manganese	mg/kg	1.62E+03	2.01E-03	7.86E-04	1.35E-07	
15	3	Subsurface	Mercury	mg/kg	1.22E+01	1.52E-05	7.43E-06	3.04E-05	
15	3	Subsurface	Molybdenum	mg/kg	2.05E+01	2.54E-05	1.24E-05	1.71E-09	
15	3	Subsurface	Neptunium-237	pCi/g	4.06E+00	9.02E+03		6.06E-01	1.37E+01
15	3	Subsurface	Nickel	mg/kg	7.57E+02	9.39E-04	3.68E-04	6.31E-08	
15	3	Subsurface	PCB, Total	mg/kg	1.00E+01	1.24E-05	1.70E-05	1.41E-06	
15	3	Subsurface	Selenium	mg/kg	2.61E+01	3.23E-05	1.58E-05	2.17E-09	
15	3	Subsurface	Silver	mg/kg	1.16E+01	1.44E-05	5.64E-06	9.68E-10	
15	3	Subsurface	Technetium-99	pCi/g	2.08E+02	4.63E+05		3.11E+01	7.04E+02
15	3	Subsurface	Thorium-230	pCi/g	4.61E+00	1.02E+04		6.88E-01	1.56E+01
15	3	Subsurface	Total PAH	mg/kg	9.85E-01	1.22E-06	1.56E-06	6.08E-09	
15	3	Subsurface	Uranium	mg/kg	2.16E+02	2.68E-04	1.31E-04	1.80E-08	
15	3	Subsurface	Uranium-234	pCi/g	6.91E+01	1.53E+05		1.03E+01	2.33E+02
15	3	Subsurface	Uranium-235	pCi/g	4.21E+00	9.35E+03		6.28E-01	1.42E+01
15	3	Subsurface	Uranium-238	pCi/g	9.57E+01	2.12E+05		1.43E+01	3.23E+02
15	3	Subsurface	Zinc	mg/kg	8.98E+02	1.11E-03	5.46E-04	7.49E-08	
15	4	Subsurface	Antimony	mg/kg	7.40E+00	9.19E-06	4.50E-06	6.17E-10	
15	4	Subsurface	Arsenic	mg/kg	3.46E+01	4.30E-05	1.26E-05	2.89E-09	
15	4	Subsurface	Cadmium	mg/kg	1.57E+00	1.95E-06	1.91E-08	1.31E-10	
15	4	Subsurface	Chromium	mg/kg	9.79E+01	1.22E-04	5.95E-05	8.17E-09	
15	4	Subsurface	Copper	mg/kg	7.05E+02	8.75E-04	4.29E-04	5.88E-08	
15	4	Subsurface	Iron	mg/kg	7.81E+04	9.69E-02	4.75E-02	6.52E-06	
15	4	Subsurface	Manganese	mg/kg	1.54E+03	1.91E-03	7.47E-04	1.28E-07	
15	4	Subsurface	Mercury	mg/kg	1.53E+01	1.90E-05	9.29E-06	3.80E-05	
15	4	Subsurface	Neptunium-237	pCi/g	4.31E-01	9.57E+02		6.43E-02	1.46E+00
15	4	Subsurface	Nickel	mg/kg	1.37E+03	1.71E-03	6.68E-04	1.15E-07	
15	4	Subsurface	PCB, Total	mg/kg	2.67E+01	3.32E-05	4.55E-05	3.76E-06	
15	4	Subsurface	Silver	mg/kg	1.80E+01	2.23E-05	8.75E-06	1.50E-09	
15	4	Subsurface	Thallium	mg/kg	3.70E-01	4.59E-07	2.25E-07	3.09E-11	
15	4	Subsurface	Total PAH	mg/kg	1.47E+00	1.82E-06	2.32E-06	9.04E-09	
15	4	Subsurface	Uranium	mg/kg	1.57E+02	1.94E-04	9.51E-05	1.31E-08	
15	4	Subsurface	Uranium-234	pCi/g	6.26E+00	1.39E+04		9.34E-01	2.12E+01
15	4	Subsurface	Uranium-235	pCi/g	2.22E-01	4.93E+02		3.31E-02	7.50E-01
15	4	Subsurface	Uranium-238	pCi/g	1.06E+01	2.36E+04		1.59E+00	3.59E+01
15	4	Subsurface	Zinc	mg/kg	1.19E+03	1.48E-03	7.23E-04	9.92E-08	
15	5	Subsurface	Aluminum	mg/kg	9.61E+03	1.19E-02	5.84E-03	8.01E-07	
15	5	Subsurface	Antimony	mg/kg	2.04E+00	2.53E-06	1.24E-06	1.70E-10	
15	5	Subsurface	Arsenic	mg/kg	1.33E+01	1.65E-05	4.85E-06	1.11E-09	
15	5	Subsurface	Cadmium	mg/kg	9.30E-01	1.15E-06	1.13E-08	7.76E-11	
15	5	Subsurface	Chromium	mg/kg	6.58E+01	8.17E-05	4.00E-05	5.49E-09	
15	5	Subsurface	Copper	mg/kg	5.63E+03	6.99E-03	3.42E-03	4.70E-07	
15	5	Subsurface	Iron	mg/kg	2.31E+04	2.86E-02	1.40E-02	1.92E-06	
15	5	Subsurface	Manganese	mg/kg	7.03E+02	8.72E-04	3.42E-04	5.86E-08	
15	5	Subsurface	Mercury	mg/kg	1.06E+01	1.32E-05	6.46E-06	2.64E-05	
15	5	Subsurface	Neptunium-237	pCi/g	5.30E-01	1.18E+03		7.91E-02	1.79E+00
15	5	Subsurface	Nickel	mg/kg	3.48E+02	4.32E-04	1.69E-04	2.90E-08	
15	5	Subsurface	PCB, Total	mg/kg	2.50E+01	3.10E-05	4.25E-05	3.51E-06	
15	5	Subsurface	Silver	mg/kg	1.53E+01	1.90E-05	7.44E-06	1.28E-09	
15	5	Subsurface	Technetium-99	pCi/g	1.07E+02	2.38E+05		1.60E+01	3.62E+02
15	5	Subsurface	Total PAH	mg/kg	3.31E-01	4.11E-07	5.23E-07	2.04E-09	
15	5	Subsurface	Uranium	mg/kg	2.42E+02	3.01E-04	1.47E-04	2.02E-08	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	5	Subsurface	Uranium-234	pCi/g	3.90E+00	8.66E+03		5.82E-01	1.32E+01
15	5	Subsurface	Uranium-235	pCi/g	3.62E-01	8.04E+02		5.40E-02	1.22E+00
15	5	Subsurface	Uranium-238	pCi/g	8.14E+00	1.81E+04		1.21E+00	2.75E+01
15	5	Subsurface	Zinc	mg/kg	1.53E+03	1.89E-03	9.27E-04	1.27E-07	
15	6	Subsurface	Antimony	mg/kg	4.00E+00	4.96E-06	2.43E-06	3.33E-10	
15	6	Subsurface	Arsenic	mg/kg	1.20E+01	1.49E-05	4.39E-06	1.00E-09	
15	6	Subsurface	Cadmium	mg/kg	1.16E+00	1.44E-06	1.41E-08	9.68E-11	
15	6	Subsurface	Chromium	mg/kg	5.80E+01	7.20E-05	3.52E-05	4.84E-09	
15	6	Subsurface	Cobalt	mg/kg	1.13E+01	1.40E-05	6.86E-06	9.42E-10	
15	6	Subsurface	Copper	mg/kg	4.28E+02	5.31E-04	2.60E-04	3.57E-08	
15	6	Subsurface	Iron	mg/kg	3.15E+04	3.91E-02	1.92E-02	2.63E-06	
15	6	Subsurface	Manganese	mg/kg	6.96E+02	8.64E-04	3.39E-04	5.81E-08	
15	6	Subsurface	Mercury	mg/kg	7.83E+00	9.72E-06	4.76E-06	1.95E-05	
15	6	Subsurface	Neptunium-237	pCi/g	4.93E-01	1.09E+03		7.36E-02	1.67E+00
15	6	Subsurface	Nickel	mg/kg	3.24E+02	4.02E-04	1.58E-04	2.70E-08	
15	6	Subsurface	PCB, Total	mg/kg	6.17E+00	7.65E-06	1.05E-05	8.67E-07	
15	6	Subsurface	Silver	mg/kg	1.09E+01	1.35E-05	5.30E-06	9.10E-10	
15	6	Subsurface	Total PAH	mg/kg	1.25E+00	1.55E-06	1.97E-06	7.70E-09	
15	6	Subsurface	Uranium	mg/kg	6.26E+01	7.77E-05	3.80E-05	5.22E-09	
15	6	Subsurface	Uranium-234	pCi/g	6.91E+00	1.53E+04		1.03E+00	2.34E+01
15	6	Subsurface	Uranium-235	pCi/g	4.48E-01	9.95E+02		6.68E-02	1.51E+00
15	6	Subsurface	Uranium-238	pCi/g	1.21E+01	2.68E+04		1.80E+00	4.07E+01
15	7	Subsurface	Aluminum	mg/kg	1.13E+04	1.40E-02	6.84E-03	9.39E-07	
15	7	Subsurface	Antimony	mg/kg	6.72E-01	8.34E-07	4.08E-07	5.61E-11	
15	7	Subsurface	Arsenic	mg/kg	1.61E+01	2.00E-05	5.88E-06	1.35E-09	
15	7	Subsurface	Barium	mg/kg	1.44E+02	1.78E-04	8.72E-05	1.20E-08	
15	7	Subsurface	Beryllium	mg/kg	6.61E-01	8.20E-07	5.62E-08	5.51E-11	
15	7	Subsurface	Cadmium	mg/kg	6.52E-01	8.09E-07	7.92E-09	5.44E-11	
15	7	Subsurface	Chromium	mg/kg	6.54E+01	8.12E-05	3.97E-05	5.46E-09	
15	7	Subsurface	Copper	mg/kg	7.55E+02	9.37E-04	4.59E-04	6.30E-08	
15	7	Subsurface	Iron	mg/kg	3.55E+04	4.41E-02	2.16E-02	2.97E-06	
15	7	Subsurface	Manganese	mg/kg	1.09E+03	1.36E-03	5.32E-04	9.13E-08	
15	7	Subsurface	Neptunium-237	pCi/g	1.71E-01	3.80E+02		2.55E-02	5.78E-01
15	7	Subsurface	Nickel	mg/kg	5.59E+02	6.93E-04	2.72E-04	4.66E-08	
15	7	Subsurface	PCB, Total	mg/kg	2.55E+01	3.17E-05	4.35E-05	3.59E-06	
15	7	Subsurface	Silver	mg/kg	1.29E+01	1.60E-05	6.25E-06	1.07E-09	
15	7	Subsurface	Total PAH	mg/kg	1.24E-01	1.54E-07	1.96E-07	7.65E-10	
15	7	Subsurface	Uranium	mg/kg	5.34E+01	6.63E-05	3.25E-05	4.46E-09	
15	7	Subsurface	Uranium-234	pCi/g	4.27E+00	9.49E+03		6.38E-01	1.44E+01
15	7	Subsurface	Uranium-235	pCi/g	2.96E-01	6.57E+02		4.42E-02	1.00E+00
15	7	Subsurface	Uranium-238	pCi/g	6.39E+00	1.42E+04		9.53E-01	2.16E+01
15	7	Subsurface	Zinc	mg/kg	5.85E+02	7.26E-04	3.55E-04	4.88E-08	
15	8	Subsurface	Antimony	mg/kg	3.64E+00	4.52E-06	2.21E-06	3.04E-10	
15	8	Subsurface	Arsenic	mg/kg	1.14E+01	1.42E-05	4.16E-06	9.53E-10	
15	8	Subsurface	Chromium	mg/kg	7.53E+01	9.35E-05	4.58E-05	6.28E-09	
15	8	Subsurface	Copper	mg/kg	1.66E+02	2.06E-04	1.01E-04	1.38E-08	
15	8	Subsurface	Iron	mg/kg	2.83E+04	3.51E-02	1.72E-02	2.36E-06	
15	8	Subsurface	Manganese	mg/kg	6.13E+02	7.61E-04	2.98E-04	5.11E-08	
15	8	Subsurface	Mercury	mg/kg	1.00E+01	1.25E-05	6.10E-06	2.50E-05	
15	8	Subsurface	Neptunium-237	pCi/g	2.83E-01	6.28E+02		4.22E-02	9.56E-01
15	8	Subsurface	Nickel	mg/kg	1.82E+02	2.26E-04	8.86E-05	1.52E-08	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	8	Subsurface	PCB, Total	mg/kg	4.90E+00	6.08E-06	8.34E-06	6.89E-07	
15	8	Subsurface	Silver	mg/kg	1.42E+01	1.77E-05	6.92E-06	1.19E-09	
15	8	Subsurface	Total PAH	mg/kg	2.80E-01	3.48E-07	4.42E-07	1.73E-09	
15	8	Subsurface	Uranium	mg/kg	4.46E+01	5.53E-05	2.71E-05	3.72E-09	
15	8	Subsurface	Uranium-235	pCi/g	2.02E-01	4.48E+02		3.01E-02	6.83E-01
15	8	Subsurface	Uranium-238	pCi/g	4.52E+00	1.00E+04		6.75E-01	1.53E+01
15	9	Subsurface	Arsenic	mg/kg	1.27E+01	1.57E-05	4.61E-06	1.06E-09	
15	9	Subsurface	Chromium	mg/kg	8.92E+01	1.11E-04	5.42E-05	7.44E-09	
15	9	Subsurface	Copper	mg/kg	1.36E+02	1.69E-04	8.25E-05	1.13E-08	
15	9	Subsurface	Iron	mg/kg	3.02E+04	3.75E-02	1.84E-02	2.52E-06	
15	9	Subsurface	Manganese	mg/kg	1.57E+03	1.94E-03	7.61E-04	1.31E-07	
15	9	Subsurface	Mercury	mg/kg	6.54E+00	8.12E-06	3.97E-06	1.63E-05	
15	9	Subsurface	Neptunium-237	pCi/g	9.93E-02	2.20E+02		1.48E-02	3.36E-01
15	9	Subsurface	Nickel	mg/kg	1.49E+02	1.85E-04	7.25E-05	1.24E-08	
15	9	Subsurface	PCB, Total	mg/kg	3.30E-01	4.10E-07	5.62E-07	4.64E-08	
15	9	Subsurface	Silver	mg/kg	1.54E+01	1.91E-05	7.50E-06	1.29E-09	
15	9	Subsurface	Total PAH	mg/kg	1.85E-01	2.30E-07	2.92E-07	1.14E-09	
15	9	Subsurface	Uranium	mg/kg	3.07E+01	3.81E-05	1.86E-05	2.56E-09	
15	9	Subsurface	Uranium-235	pCi/g	1.63E-01	3.62E+02		2.43E-02	5.51E-01
15	9	Subsurface	Uranium-238	pCi/g	4.68E+00	1.04E+04		6.99E-01	1.58E+01
15	10	Subsurface	Arsenic	mg/kg	9.74E+00	1.21E-05	3.55E-06	8.13E-10	
15	10	Subsurface	Chromium	mg/kg	6.29E+01	7.81E-05	3.82E-05	5.25E-09	
15	10	Subsurface	Mercury	mg/kg	7.84E+00	9.73E-06	4.76E-06	1.95E-05	
15	10	Subsurface	Nickel	mg/kg	1.60E+02	1.99E-04	7.80E-05	1.34E-08	
15	10	Subsurface	Silver	mg/kg	1.08E+01	1.34E-05	5.26E-06	9.02E-10	
15	10	Subsurface	Total PAH	mg/kg	8.65E-02	1.07E-07	1.37E-07	5.34E-10	
15	10	Subsurface	Uranium	mg/kg	6.42E+01	7.97E-05	3.90E-05	5.36E-09	
16	1	Subsurface	Barium	mg/kg	1.28E+02	1.59E-04	7.78E-05	1.07E-08	
16	1	Subsurface	Beryllium	mg/kg	6.21E-01	7.71E-07	5.28E-08	5.18E-11	
16	1	Subsurface	Cesium-137	pCi/g	1.10E+00	2.44E+03		1.64E-01	3.72E+00
16	1	Subsurface	Nickel	mg/kg	1.80E+01	2.23E-05	8.74E-06	1.50E-09	
16	1	Subsurface	PCB, Total	mg/kg	9.60E-02	1.19E-07	1.63E-07	1.35E-08	
16	1	Subsurface	Total PAH	mg/kg	2.72E-02	3.38E-08	4.30E-08	1.68E-10	
16	2	Subsurface	Arsenic	mg/kg	8.72E+00	1.08E-05	3.18E-06	7.27E-10	
16	2	Subsurface	Beryllium	mg/kg	6.88E-01	8.54E-07	5.85E-08	5.74E-11	
16	2	Subsurface	Chromium	mg/kg	5.03E+01	6.25E-05	3.06E-05	4.20E-09	
16	2	Subsurface	Nickel	mg/kg	7.56E+01	9.38E-05	3.68E-05	6.31E-09	
16	2	Subsurface	PCB, Total	mg/kg	1.30E-01	1.61E-07	2.21E-07	1.83E-08	
16	2	Subsurface	Silver	mg/kg	1.02E+01	1.26E-05	4.94E-06	8.48E-10	
16	3	Subsurface	Aluminum	mg/kg	1.03E+04	1.28E-02	6.29E-03	8.63E-07	
16	3	Subsurface	Arsenic	mg/kg	8.62E+00	1.07E-05	3.14E-06	7.19E-10	
16	3	Subsurface	Barium	mg/kg	1.51E+02	1.88E-04	9.20E-05	1.26E-08	
16	3	Subsurface	Beryllium	mg/kg	6.15E-01	7.63E-07	5.23E-08	5.13E-11	
16	3	Subsurface	Chromium	mg/kg	4.66E+01	5.79E-05	2.83E-05	3.89E-09	
16	3	Subsurface	Manganese	mg/kg	7.84E+02	9.73E-04	3.81E-04	6.54E-08	
16	3	Subsurface	Nickel	mg/kg	7.09E+01	8.80E-05	3.45E-05	5.92E-09	
16	3	Subsurface	PCB, Total	mg/kg	1.37E+00	1.70E-06	2.33E-06	1.93E-07	
16	4	Subsurface	Aluminum	mg/kg	1.01E+04	1.26E-02	6.16E-03	8.46E-07	
16	4	Subsurface	Cesium-137	pCi/g	3.66E+01	8.12E+04		5.46E+00	1.24E+02
16	4	Subsurface	Cobalt-60	pCi/g	8.53E-03	1.89E+01		1.27E-03	2.88E-02
16	4	Subsurface	Neptunium-237	pCi/g	7.12E+00	1.58E+04		1.06E+00	2.41E+01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
16	4	Subsurface	Nickel	mg/kg	8.94E+01	1.11E-04	4.35E-05	7.46E-09	
16	4	Subsurface	PCB, Total	mg/kg	4.29E-01	5.33E-07	7.30E-07	6.03E-08	
16	4	Subsurface	Technetium-99	pCi/g	3.55E+02	7.88E+05		5.30E+01	1.20E+03
16	4	Subsurface	Thorium-230	pCi/g	5.29E+00	1.17E+04		7.89E-01	1.79E+01
16	4	Subsurface	Total PAH	mg/kg	2.05E+00	2.54E-06	3.23E-06	1.26E-08	
16	4	Subsurface	Uranium-234	pCi/g	1.19E+02	2.64E+05		1.78E+01	4.02E+02
16	4	Subsurface	Uranium-235	pCi/g	8.23E+00	1.83E+04		1.23E+00	2.78E+01
16	4	Subsurface	Uranium-238	pCi/g	2.70E+02	5.99E+05		4.03E+01	9.12E+02
19	1	Subsurface	Arsenic	mg/kg	1.01E+01	1.25E-05	3.68E-06	8.43E-10	
19	1	Subsurface	Beryllium	mg/kg	1.40E+00	1.74E-06	1.19E-07	1.17E-10	
19	1	Subsurface	Cadmium	mg/kg	5.70E+00	7.08E-06	6.93E-08	4.75E-10	
19	1	Subsurface	Cobalt	mg/kg	1.35E+01	1.68E-05	8.20E-06	1.13E-09	
19	1	Subsurface	Copper	mg/kg	1.80E+03	2.23E-03	1.09E-03	1.50E-07	
19	1	Subsurface	Nickel	mg/kg	4.38E+02	5.44E-04	2.13E-04	3.65E-08	
19	1	Subsurface	Thallium	mg/kg	9.80E-01	1.22E-06	5.96E-07	8.17E-11	
19	1	Subsurface	Total PAH	mg/kg	5.23E+00	6.49E-06	8.26E-06	3.22E-08	
19	1	Subsurface	Uranium	mg/kg	1.64E+02	2.04E-04	9.97E-05	1.37E-08	
19	1	Subsurface	Uranium-234	pCi/g	2.77E+01	6.15E+04		4.13E+00	9.36E+01
19	1	Subsurface	Uranium-235	pCi/g	1.30E+00	2.89E+03		1.94E-01	4.39E+00
19	1	Subsurface	Uranium-238	pCi/g	3.06E+01	6.79E+04		4.57E+00	1.03E+02
19	1	Subsurface	Vanadium	mg/kg	3.83E+01	4.75E-05	1.21E-05	3.19E-09	
26	1	Subsurface	Aluminum	mg/kg	1.11E+04	1.38E-02	6.76E-03	9.28E-07	
26	1	Subsurface	Antimony	mg/kg	8.00E-01	9.93E-07	4.86E-07	6.67E-11	
26	1	Subsurface	Arsenic	mg/kg	1.06E+01	1.31E-05	3.85E-06	8.81E-10	
26	1	Subsurface	Beryllium	mg/kg	6.51E+00	8.08E-06	5.54E-07	5.43E-10	
26	1	Subsurface	Cadmium	mg/kg	2.09E+00	2.59E-06	2.53E-08	1.74E-10	
26	1	Subsurface	Cesium-137	pCi/g	1.76E+00	3.91E+03		2.63E-01	5.96E+00
26	1	Subsurface	Cobalt	mg/kg	8.55E+00	1.06E-05	5.20E-06	7.13E-10	
26	1	Subsurface	Cobalt-60	pCi/g	3.99E-03	8.86E+00		5.95E-04	1.35E-02
26	1	Subsurface	Manganese	mg/kg	6.46E+02	8.02E-04	3.14E-04	5.39E-08	
26	1	Subsurface	Mercury	mg/kg	6.78E+00	8.42E-06	4.12E-06	1.69E-05	
26	1	Subsurface	Neptunium-237	pCi/g	2.50E-01	5.55E+02		3.73E-02	8.45E-01
26	1	Subsurface	Nickel	mg/kg	9.66E+01	1.20E-04	4.69E-05	8.06E-09	
26	1	Subsurface	PCB, Total	mg/kg	2.53E+00	3.14E-06	4.30E-06	3.56E-07	
26	1	Subsurface	Plutonium-239/240	pCi/g	3.50E+00	7.77E+03		5.22E-01	1.18E+01
26	1	Subsurface	Silver	mg/kg	8.48E+00	1.05E-05	4.12E-06	7.08E-10	
26	1	Subsurface	Thallium	mg/kg	4.10E-01	5.09E-07	2.49E-07	3.42E-11	
26	1	Subsurface	Thorium-230	pCi/g	4.03E+00	8.95E+03		6.01E-01	1.36E+01
26	1	Subsurface	Total PAH	mg/kg	1.74E-01	2.16E-07	2.75E-07	1.07E-09	
26	1	Subsurface	Trichloroethene	mg/kg	1.19E-02	1.48E-08	3.62E-08	5.45E-07	
26	1	Subsurface	Uranium	mg/kg	1.38E+02	1.71E-04	8.36E-05	1.15E-08	
26	1	Subsurface	Uranium-234	pCi/g	4.29E+00	9.51E+03		6.39E-01	1.45E+01
26	1	Subsurface	Uranium-235	pCi/g	5.84E-01	1.30E+03		8.71E-02	1.97E+00
26	1	Subsurface	Uranium-238	pCi/g	3.14E+01	6.96E+04		4.68E+00	1.06E+02
26	2	Subsurface	Aluminum	mg/kg	1.68E+04	2.08E-02	1.02E-02	1.40E-06	
26	2	Subsurface	Antimony	mg/kg	1.00E+00	1.24E-06	6.08E-07	8.34E-11	
26	2	Subsurface	Arsenic	mg/kg	1.91E+01	2.37E-05	6.98E-06	1.60E-09	
26	2	Subsurface	Barium	mg/kg	1.50E+02	1.86E-04	9.09E-05	1.25E-08	
26	2	Subsurface	Beryllium	mg/kg	8.44E+00	1.05E-05	7.18E-07	7.04E-10	
26	2	Subsurface	Cadmium	mg/kg	1.55E+00	1.92E-06	1.88E-08	1.29E-10	
26	2	Subsurface	Cesium-137	pCi/g	4.86E+00	1.08E+04		7.24E-01	1.64E+01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
26	2	Subsurface	Chromium	mg/kg	5.99E+01	7.44E-05	3.64E-05	5.00E-09	
26	2	Subsurface	Cobalt	mg/kg	2.91E+01	3.62E-05	1.77E-05	2.43E-09	
26	2	Subsurface	Copper	mg/kg	7.33E+01	9.10E-05	4.46E-05	6.12E-09	
26	2	Subsurface	Iron	mg/kg	2.65E+04	3.29E-02	1.61E-02	2.21E-06	
26	2	Subsurface	Manganese	mg/kg	6.80E+02	8.44E-04	3.30E-04	5.67E-08	
26	2	Subsurface	Mercury	mg/kg	8.92E+00	1.11E-05	5.42E-06	2.22E-05	
26	2	Subsurface	Neptunium-237	pCi/g	8.30E-01	1.84E+03		1.24E-01	2.80E+00
26	2	Subsurface	Nickel	mg/kg	7.35E+01	9.12E-05	3.57E-05	6.13E-09	
26	2	Subsurface	PCB, Total	mg/kg	3.58E+00	4.45E-06	6.10E-06	5.04E-07	
26	2	Subsurface	Silver	mg/kg	7.82E+00	9.71E-06	3.80E-06	6.52E-10	
26	2	Subsurface	Thallium	mg/kg	8.91E+00	1.11E-05	5.41E-06	7.43E-10	
26	2	Subsurface	Thorium-230	pCi/g	1.27E+01	2.81E+04		1.89E+00	4.28E+01
26	2	Subsurface	Total PAH	mg/kg	2.30E-02	2.85E-08	3.63E-08	1.42E-10	
26	2	Subsurface	Uranium	mg/kg	2.51E+02	3.12E-04	1.53E-04	2.10E-08	
26	2	Subsurface	Uranium-234	pCi/g	1.57E+01	3.49E+04		2.35E+00	5.31E+01
26	2	Subsurface	Uranium-235	pCi/g	1.41E+00	3.13E+03		2.11E-01	4.77E+00
26	2	Subsurface	Uranium-238	pCi/g	4.22E+01	9.37E+04		6.30E+00	1.43E+02
26	2	Subsurface	Vanadium	mg/kg	2.94E+01	3.64E-05	9.28E-06	2.45E-09	
26	3	Subsurface	Aluminum	mg/kg	1.01E+04	1.26E-02	6.15E-03	8.44E-07	
26	3	Subsurface	Antimony	mg/kg	1.40E+00	1.74E-06	8.51E-07	1.17E-10	
26	3	Subsurface	Arsenic	mg/kg	4.16E+01	5.16E-05	1.52E-05	3.47E-09	
26	3	Subsurface	Barium	mg/kg	3.84E+02	4.76E-04	2.33E-04	3.20E-08	
26	3	Subsurface	Beryllium	mg/kg	3.86E+00	4.79E-06	3.28E-07	3.22E-10	
26	3	Subsurface	Cadmium	mg/kg	2.34E+00	2.90E-06	2.84E-08	1.95E-10	
26	3	Subsurface	Cesium-137	pCi/g	6.01E-01	1.33E+03		8.97E-02	2.03E+00
26	3	Subsurface	Chromium	mg/kg	3.51E+01	4.36E-05	2.13E-05	2.93E-09	
26	3	Subsurface	Cobalt	mg/kg	1.02E+01	1.26E-05	6.17E-06	8.47E-10	
26	3	Subsurface	Iron	mg/kg	1.47E+04	1.82E-02	8.93E-03	1.23E-06	
26	3	Subsurface	Manganese	mg/kg	4.16E+02	5.17E-04	2.02E-04	3.47E-08	
26	3	Subsurface	Mercury	mg/kg	4.13E+00	5.13E-06	2.51E-06	1.03E-05	
26	3	Subsurface	Naphthalene	mg/kg	1.05E+00	1.30E-06	3.18E-06	2.91E-06	
26	3	Subsurface	Neptunium-237	pCi/g	7.30E-01	1.62E+03		1.09E-01	2.47E+00
26	3	Subsurface	Nickel	mg/kg	4.80E+01	5.96E-05	2.33E-05	4.00E-09	
26	3	Subsurface	PCB, Total	mg/kg	1.88E+00	2.33E-06	3.19E-06	2.64E-07	
26	3	Subsurface	Silver	mg/kg	2.15E+01	2.67E-05	1.05E-05	1.79E-09	
26	3	Subsurface	Technetium-99	pCi/g	8.75E+01	1.94E+05		1.31E+01	2.96E+02
26	3	Subsurface	Thallium	mg/kg	6.00E-01	7.45E-07	3.65E-07	5.01E-11	
26	3	Subsurface	Thorium-230	pCi/g	9.57E+00	2.12E+04		1.43E+00	3.23E+01
26	3	Subsurface	Total PAH	mg/kg	1.01E+00	1.25E-06	1.59E-06	6.22E-09	
26	3	Subsurface	Uranium	mg/kg	9.12E+01	1.13E-04	5.54E-05	7.61E-09	
26	3	Subsurface	Uranium-234	pCi/g	4.05E+01	8.98E+04		6.04E+00	1.37E+02
26	3	Subsurface	Uranium-235	pCi/g	1.48E+00	3.28E+03		2.20E-01	4.99E+00
26	3	Subsurface	Uranium-238	pCi/g	4.53E+01	1.00E+05		6.75E+00	1.53E+02
26	3	Subsurface	Vanadium	mg/kg	3.41E+01	4.24E-05	1.08E-05	2.85E-09	
26	4	Subsurface	Aluminum	mg/kg	1.24E+04	1.53E-02	7.51E-03	1.03E-06	
26	4	Subsurface	Americium-241	pCi/g	1.17E+00	2.61E+03		1.75E-01	3.97E+00
26	4	Subsurface	Antimony	mg/kg	1.90E+00	2.36E-06	1.15E-06	1.58E-10	
26	4	Subsurface	Arsenic	mg/kg	1.21E+01	1.50E-05	4.41E-06	1.01E-09	
26	4	Subsurface	Beryllium	mg/kg	7.63E-01	9.47E-07	6.49E-08	6.36E-11	
26	4	Subsurface	Cadmium	mg/kg	1.99E+00	2.47E-06	2.42E-08	1.66E-10	
26	4	Subsurface	Cesium-137	pCi/g	5.73E-01	1.27E+03		8.55E-02	1.94E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
26	4	Subsurface	Chromium	mg/kg	1.35E+02	1.68E-04	8.22E-05	1.13E-08	
26	4	Subsurface	Cobalt	mg/kg	1.04E+01	1.29E-05	6.32E-06	8.68E-10	
26	4	Subsurface	Cobalt-60	pCi/g	3.09E-03	6.86E+00		4.61E-04	1.04E-02
26	4	Subsurface	Copper	mg/kg	1.87E+03	2.32E-03	1.14E-03	1.56E-07	
26	4	Subsurface	Iron	mg/kg	2.04E+04	2.53E-02	1.24E-02	1.70E-06	
26	4	Subsurface	Manganese	mg/kg	6.69E+02	8.30E-04	3.25E-04	5.58E-08	
26	4	Subsurface	Mercury	mg/kg	6.75E+00	8.37E-06	4.10E-06	1.68E-05	
26	4	Subsurface	Neptunium-237	pCi/g	1.20E+01	2.66E+04		1.79E+00	4.05E+01
26	4	Subsurface	Nickel	mg/kg	4.41E+03	5.48E-03	2.14E-03	3.68E-07	
26	4	Subsurface	PCB, Total	mg/kg	5.62E-01	6.98E-07	9.56E-07	7.90E-08	
26	4	Subsurface	Plutonium-239/240	pCi/g	4.40E+00	9.76E+03		6.56E-01	1.49E+01
26	4	Subsurface	Silver	mg/kg	4.12E+00	5.11E-06	2.00E-06	3.44E-10	
26	4	Subsurface	Technetium-99	pCi/g	4.65E+02	1.03E+06		6.94E+01	1.57E+03
26	4	Subsurface	Thorium-230	pCi/g	2.84E+01	6.30E+04		4.24E+00	9.59E+01
26	4	Subsurface	Total PAH	mg/kg	4.15E-01	5.16E-07	6.56E-07	2.56E-09	
26	4	Subsurface	Uranium	mg/kg	8.05E+02	9.99E-04	4.89E-04	6.72E-08	
26	4	Subsurface	Uranium-234	pCi/g	1.13E+02	2.50E+05		1.68E+01	3.81E+02
26	4	Subsurface	Uranium-235	pCi/g	7.85E+00	1.74E+04		1.17E+00	2.65E+01
26	4	Subsurface	Uranium-238	pCi/g	3.27E+02	7.26E+05		4.88E+01	1.11E+03
26	4	Subsurface	Vanadium	mg/kg	3.42E+01	4.24E-05	1.08E-05	2.85E-09	
27	1	Subsurface	Cobalt-60	pCi/g	1.01E-02	2.24E+01		1.51E-03	3.41E-02
27	1	Subsurface	Nickel	mg/kg	3.97E+01	4.93E-05	1.93E-05	3.31E-09	
27	1	Subsurface	PCB, Total	mg/kg	7.20E-02	8.94E-08	1.23E-07	1.01E-08	
47	1	Subsurface	Aluminum	mg/kg	1.55E+04	1.92E-02	9.42E-03	1.29E-06	
47	1	Subsurface	Antimony	mg/kg	9.00E-01	1.12E-06	5.47E-07	7.51E-11	
47	1	Subsurface	Arsenic	mg/kg	4.52E+01	5.61E-05	1.65E-05	3.77E-09	
47	1	Subsurface	Beryllium	mg/kg	7.00E-01	8.69E-07	5.96E-08	5.84E-11	
47	1	Subsurface	Cadmium	mg/kg	1.28E+01	1.59E-05	1.56E-07	1.07E-09	
47	1	Subsurface	Chromium	mg/kg	5.39E+01	6.69E-05	3.28E-05	4.50E-09	
47	1	Subsurface	Cobalt	mg/kg	1.69E+01	2.10E-05	1.03E-05	1.41E-09	
47	1	Subsurface	Iron	mg/kg	2.95E+04	3.66E-02	1.79E-02	2.46E-06	
47	1	Subsurface	Manganese	mg/kg	1.69E+03	2.10E-03	8.22E-04	1.41E-07	
47	1	Subsurface	Naphthalene	mg/kg	1.90E+00	2.36E-06	5.77E-06	5.28E-06	
47	1	Subsurface	Neptunium-237	pCi/g	1.46E-01	3.24E+02		2.18E-02	4.93E-01
47	1	Subsurface	Nickel	mg/kg	8.25E+01	1.02E-04	4.01E-05	6.88E-09	
47	1	Subsurface	PCB, Total	mg/kg	9.60E-01	1.19E-06	1.63E-06	1.35E-07	
47	1	Subsurface	Plutonium-239/240	pCi/g	4.19E+00	9.30E+03		6.25E-01	1.42E+01
47	1	Subsurface	Pyrene	mg/kg	1.11E+02	1.37E-04	1.75E-04	6.06E-06	
47	1	Subsurface	Thorium-230	pCi/g	5.45E+01	1.21E+05		8.13E+00	1.84E+02
47	1	Subsurface	Total PAH	mg/kg	5.41E+01	6.71E-05	8.54E-05	3.34E-07	
47	1	Subsurface	trans-1,2-Dichloroethene	mg/kg	2.50E+00	3.10E-06	7.60E-06	9.87E-05	
47	1	Subsurface	Trichloroethene	mg/kg	1.40E+00	1.74E-06	4.25E-06	6.41E-05	
47	1	Subsurface	Uranium	mg/kg	4.17E+01	5.18E-05	2.53E-05	3.48E-09	
47	1	Subsurface	Uranium-234	pCi/g	8.10E+00	1.80E+04		1.21E+00	2.74E+01
47	1	Subsurface	Uranium-235	pCi/g	5.00E-01	1.11E+03		7.46E-02	1.69E+00
47	1	Subsurface	Uranium-238	pCi/g	8.21E+00	1.82E+04		1.22E+00	2.77E+01
74	1	Subsurface	Cesium-137	pCi/g	4.80E-01	1.07E+03		7.16E-02	1.62E+00
74	1	Subsurface	PCB, Total	mg/kg	2.97E+00	3.69E-06	5.06E-06	4.18E-07	
74	1	Subsurface	Total PAH	mg/kg	3.16E+00	3.92E-06	5.00E-06	1.95E-08	
74	1	Subsurface	Uranium-234	pCi/g	7.55E+00	1.68E+04		1.13E+00	2.55E+01
74	1	Subsurface	Uranium-238	pCi/g	3.85E+01	8.55E+04		5.74E+00	1.30E+02

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
75	1	Subsurface	Arsenic	mg/kg	1.68E+01	2.09E-05	6.13E-06	1.40E-09	
75	1	Subsurface	Cadmium	mg/kg	1.10E+00	1.37E-06	1.34E-08	9.18E-11	
75	1	Subsurface	Chromium	mg/kg	7.17E+01	8.90E-05	4.36E-05	5.98E-09	
75	1	Subsurface	Copper	mg/kg	3.15E+02	3.91E-04	1.91E-04	2.63E-08	
75	1	Subsurface	Iron	mg/kg	4.42E+04	5.48E-02	2.69E-02	3.69E-06	
75	1	Subsurface	Nickel	mg/kg	8.87E+01	1.10E-04	4.31E-05	7.40E-09	
75	1	Subsurface	PCB, Total	mg/kg	2.30E-01	2.85E-07	3.91E-07	3.23E-08	
75	1	Subsurface	Total PAH	mg/kg	2.21E-01	2.75E-07	3.50E-07	1.37E-09	
76	1	Subsurface	Arsenic	mg/kg	1.31E+01	1.63E-05	4.78E-06	1.09E-09	
76	1	Subsurface	Barium	mg/kg	2.69E+02	3.34E-04	1.63E-04	2.24E-08	
76	1	Subsurface	Mercury	mg/kg	7.45E+00	9.25E-06	4.53E-06	1.85E-05	
76	1	Subsurface	PCB, Total	mg/kg	2.60E-01	3.23E-07	4.42E-07	3.66E-08	
76	1	Subsurface	Total PAH	mg/kg	1.76E+00	2.18E-06	2.78E-06	1.08E-08	
76	1	Subsurface	Uranium-238	pCi/g	1.45E+00	3.22E+03		2.16E-01	4.90E+00
78	1	Subsurface	Aluminum	mg/kg	1.49E+04	1.85E-02	9.05E-03	1.24E-06	
78	1	Subsurface	Barium	mg/kg	1.77E+02	2.20E-04	1.08E-04	1.48E-08	
78	1	Subsurface	Cadmium	mg/kg	2.36E+00	2.93E-06	2.87E-08	1.97E-10	
78	1	Subsurface	Cobalt	mg/kg	1.61E+01	2.00E-05	9.78E-06	1.34E-09	
78	1	Subsurface	Cobalt-60	pCi/g	5.91E-03	1.31E+01		8.82E-04	2.00E-02
78	1	Subsurface	Manganese	mg/kg	1.47E+03	1.82E-03	7.15E-04	1.23E-07	
78	1	Subsurface	Naphthalene	mg/kg	1.60E+01	1.99E-05	4.86E-05	4.45E-05	
78	1	Subsurface	PCB, Total	mg/kg	1.20E+01	1.49E-05	2.04E-05	1.69E-06	
78	1	Subsurface	Total PAH	mg/kg	3.91E+01	4.86E-05	6.18E-05	2.41E-07	
78	1	Subsurface	Uranium-235	pCi/g	2.64E-01	5.86E+02		3.94E-02	8.92E-01
78	1	Subsurface	Uranium-238	pCi/g	5.29E+00	1.17E+04		7.89E-01	1.79E+01
80	1	Subsurface	Americium-241	pCi/g	6.40E+00	1.42E+04		9.55E-01	2.16E+01
80	1	Subsurface	Antimony	mg/kg	9.10E-01	1.13E-06	5.53E-07	7.59E-11	
80	1	Subsurface	Arsenic	mg/kg	1.01E+01	1.25E-05	3.67E-06	8.40E-10	
80	1	Subsurface	Beryllium	mg/kg	7.80E-01	9.68E-07	6.64E-08	6.51E-11	
80	1	Subsurface	Chromium	mg/kg	1.65E+02	2.05E-04	1.00E-04	1.38E-08	
80	1	Subsurface	Mercury	mg/kg	4.50E-01	5.59E-07	2.73E-07	1.12E-06	
80	1	Subsurface	Neptunium-237	pCi/g	5.05E-01	1.12E+03		7.53E-02	1.71E+00
80	1	Subsurface	PCB, Total	mg/kg	4.31E+01	5.35E-05	7.33E-05	6.06E-06	
80	1	Subsurface	Thorium-230	pCi/g	4.40E+00	9.77E+03		6.56E-01	1.49E+01
80	1	Subsurface	Total PAH	mg/kg	1.42E-01	1.76E-07	2.24E-07	8.74E-10	
80	1	Subsurface	Uranium	mg/kg	5.72E+03	7.10E-03	3.48E-03	4.77E-07	
80	1	Subsurface	Uranium-234	pCi/g	2.29E+02	5.08E+05		3.42E+01	7.74E+02
80	1	Subsurface	Uranium-235	pCi/g	3.00E+01	6.66E+04		4.48E+00	1.01E+02
80	1	Subsurface	Uranium-238	pCi/g	1.92E+03	4.26E+06		2.87E+02	6.49E+03
81	1	Subsurface	Aluminum	mg/kg	9.55E+03	1.19E-02	5.80E-03	7.96E-07	
81	1	Subsurface	Arsenic	mg/kg	1.11E+01	1.38E-05	4.05E-06	9.27E-10	
81	1	Subsurface	Beryllium	mg/kg	6.98E-01	8.66E-07	5.94E-08	5.82E-11	
81	1	Subsurface	Chromium	mg/kg	6.38E+01	7.92E-05	3.88E-05	5.32E-09	
81	1	Subsurface	Cobalt	mg/kg	1.58E+01	1.96E-05	9.60E-06	1.32E-09	
81	1	Subsurface	Manganese	mg/kg	1.12E+03	1.39E-03	5.45E-04	9.35E-08	
81	1	Subsurface	Mercury	mg/kg	8.33E+00	1.03E-05	5.06E-06	2.07E-05	
81	1	Subsurface	Nickel	mg/kg	7.50E+01	9.31E-05	3.64E-05	6.25E-09	
81	1	Subsurface	PCB, Total	mg/kg	1.60E+02	1.98E-04	2.72E-04	2.25E-05	
81	1	Subsurface	Silver	mg/kg	2.70E+00	3.35E-06	1.31E-06	2.25E-10	
81	1	Subsurface	Thallium	mg/kg	3.49E-01	4.33E-07	2.12E-07	2.91E-11	
81	1	Subsurface	Total PAH	mg/kg	4.95E-01	6.14E-07	7.82E-07	3.05E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
81	1	Subsurface	Uranium	mg/kg	6.50E+03	8.07E-03	3.95E-03	5.42E-07	
81	1	Subsurface	Uranium-238	pCi/g	2.29E+00	5.07E+03		3.41E-01	7.72E+00
99	1	Subsurface	Aluminum	mg/kg	1.16E+04	1.45E-02	7.08E-03	9.71E-07	
99	1	Subsurface	Arsenic	mg/kg	9.94E+00	1.23E-05	3.62E-06	8.29E-10	
99	1	Subsurface	Barium	mg/kg	1.35E+02	1.67E-04	8.20E-05	1.13E-08	
99	1	Subsurface	Beryllium	mg/kg	7.22E-01	8.96E-07	6.14E-08	6.02E-11	
99	1	Subsurface	Chromium	mg/kg	6.29E+01	7.80E-05	3.82E-05	5.24E-09	
99	1	Subsurface	Cobalt-60	pCi/g	1.19E-02	2.64E+01		1.78E-03	4.02E-02
99	1	Subsurface	Manganese	mg/kg	6.28E+02	7.80E-04	3.05E-04	5.24E-08	
99	1	Subsurface	Mercury	mg/kg	9.53E+00	1.18E-05	5.79E-06	2.37E-05	
99	1	Subsurface	Nickel	mg/kg	8.52E+01	1.06E-04	4.14E-05	7.10E-09	
99	1	Subsurface	Silver	mg/kg	1.03E+01	1.28E-05	5.01E-06	8.59E-10	
99	1	Subsurface	Uranium	mg/kg	1.61E+01	2.00E-05	9.77E-06	1.34E-09	
99	1	Subsurface	Uranium-238	pCi/g	9.45E-01	2.10E+03		1.41E-01	3.19E+00
99	2	Subsurface	Chromium	mg/kg	4.57E+01	5.68E-05	2.78E-05	3.82E-09	
135	1	Subsurface	PCB, Total	mg/kg	3.60E+02	4.47E-04	6.13E-04	5.06E-05	
138	1	Subsurface	Aluminum	mg/kg	1.08E+04	1.33E-02	6.53E-03	8.97E-07	
138	1	Subsurface	Antimony	mg/kg	4.55E+00	5.65E-06	2.77E-06	3.80E-10	
138	1	Subsurface	Arsenic	mg/kg	1.08E+01	1.34E-05	3.93E-06	8.98E-10	
138	1	Subsurface	Barium	mg/kg	1.99E+02	2.47E-04	1.21E-04	1.66E-08	
138	1	Subsurface	Beryllium	mg/kg	6.28E-01	7.80E-07	5.34E-08	5.24E-11	
138	1	Subsurface	Cadmium	mg/kg	4.87E+00	6.05E-06	5.92E-08	4.06E-10	
138	1	Subsurface	Chromium	mg/kg	5.65E+01	7.02E-05	3.44E-05	4.72E-09	
138	1	Subsurface	Cobalt	mg/kg	9.18E+00	1.14E-05	5.58E-06	7.66E-10	
138	1	Subsurface	Iron	mg/kg	1.99E+04	2.47E-02	1.21E-02	1.66E-06	
138	1	Subsurface	Manganese	mg/kg	6.55E+02	8.13E-04	3.19E-04	5.47E-08	
138	1	Subsurface	Mercury	mg/kg	1.46E+01	1.81E-05	8.84E-06	3.62E-05	
138	1	Subsurface	Nickel	mg/kg	7.71E+01	9.57E-05	3.75E-05	6.43E-09	
138	1	Subsurface	PCB, Total	mg/kg	5.00E-01	6.21E-07	8.51E-07	7.03E-08	
138	1	Subsurface	Silver	mg/kg	1.01E+01	1.25E-05	4.91E-06	8.42E-10	
138	1	Subsurface	Thallium	mg/kg	6.20E-01	7.70E-07	3.77E-07	5.17E-11	
138	1	Subsurface	Total PAH	mg/kg	9.74E-02	1.21E-07	1.54E-07	6.01E-10	
138	1	Subsurface	Vanadium	mg/kg	2.99E+01	3.71E-05	9.44E-06	2.49E-09	
138	2	Subsurface	Arsenic	mg/kg	1.03E+01	1.28E-05	3.77E-06	8.62E-10	
138	2	Subsurface	Cadmium	mg/kg	5.00E-01	6.21E-07	6.08E-09	4.17E-11	
138	2	Subsurface	Chromium	mg/kg	6.28E+01	7.79E-05	3.82E-05	5.24E-09	
138	2	Subsurface	Mercury	mg/kg	8.30E+00	1.03E-05	5.04E-06	2.06E-05	
138	2	Subsurface	Nickel	mg/kg	9.60E+01	1.19E-04	4.67E-05	8.01E-09	
138	2	Subsurface	PCB, Total	mg/kg	9.20E-02	1.14E-07	1.57E-07	1.29E-08	
138	2	Subsurface	Silver	mg/kg	1.53E+01	1.90E-05	7.44E-06	1.28E-09	
138	2	Subsurface	Thallium	mg/kg	2.90E-01	3.60E-07	1.76E-07	2.42E-11	
138	2	Subsurface	Total PAH	mg/kg	3.84E-02	4.77E-08	6.07E-08	2.37E-10	
153	1	Subsurface	Arsenic	mg/kg	9.92E+00	1.23E-05	3.62E-06	8.27E-10	
153	1	Subsurface	Chromium	mg/kg	6.59E+01	8.18E-05	4.01E-05	5.50E-09	
153	1	Subsurface	Manganese	mg/kg	5.73E+02	7.12E-04	2.79E-04	4.78E-08	
153	1	Subsurface	Nickel	mg/kg	7.83E+01	9.72E-05	3.81E-05	6.53E-09	
153	1	Subsurface	PCB, Total	mg/kg	6.00E-01	7.45E-07	1.02E-06	8.44E-08	
153	1	Subsurface	Silver	mg/kg	1.32E+01	1.63E-05	6.40E-06	1.10E-09	
153	1	Subsurface	Total PAH	mg/kg	7.31E-02	9.07E-08	1.15E-07	4.51E-10	
154	1	Subsurface	Arsenic	mg/kg	1.52E+01	1.88E-05	5.53E-06	1.27E-09	
154	1	Subsurface	Chromium	mg/kg	7.21E+01	8.95E-05	4.38E-05	6.01E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
154	1	Subsurface	Manganese	mg/kg	1.02E+03	1.26E-03	4.94E-04	8.48E-08	
154	1	Subsurface	Nickel	mg/kg	9.89E+01	1.23E-04	4.81E-05	8.25E-09	
154	1	Subsurface	PCB, Total	mg/kg	3.20E+00	3.97E-06	5.45E-06	4.50E-07	
154	1	Subsurface	Total PAH	mg/kg	1.04E+00	1.29E-06	1.64E-06	6.42E-09	
154	1	Subsurface	Uranium	mg/kg	3.82E+01	4.74E-05	2.32E-05	3.18E-09	
154	1	Subsurface	Uranium-238	pCi/g	3.06E+00	6.79E+03		4.57E-01	1.03E+01
154	2	Subsurface	PCB, Total	mg/kg	4.00E-01	4.97E-07	6.81E-07	5.63E-08	
155	1	Subsurface	Antimony	mg/kg	3.65E+00	4.54E-06	2.22E-06	3.05E-10	
155	1	Subsurface	Arsenic	mg/kg	9.01E+00	1.12E-05	3.29E-06	7.52E-10	
155	1	Subsurface	Neptunium-237	pCi/g	1.03E-01	2.29E+02		1.54E-02	3.48E-01
155	1	Subsurface	Nickel	mg/kg	7.65E+01	9.50E-05	3.72E-05	6.38E-09	
155	1	Subsurface	PCB, Total	mg/kg	9.20E+00	1.14E-05	1.56E-05	1.29E-06	
155	1	Subsurface	Silver	mg/kg	1.11E+01	1.38E-05	5.39E-06	9.24E-10	
156	1	Subsurface	Arsenic	mg/kg	1.11E+01	1.38E-05	4.05E-06	9.26E-10	
156	1	Subsurface	Beryllium	mg/kg	1.00E+00	1.24E-06	8.51E-08	8.34E-11	
156	1	Subsurface	Chromium	mg/kg	6.31E+01	7.83E-05	3.83E-05	5.26E-09	
156	1	Subsurface	Cobalt	mg/kg	1.72E+01	2.13E-05	1.05E-05	1.43E-09	
156	1	Subsurface	Manganese	mg/kg	2.83E+03	3.52E-03	1.38E-03	2.36E-07	
156	1	Subsurface	Mercury	mg/kg	9.87E+00	1.23E-05	6.00E-06	2.45E-05	
156	1	Subsurface	Nickel	mg/kg	6.16E+01	7.65E-05	3.00E-05	5.14E-09	
156	1	Subsurface	PCB, Total	mg/kg	3.00E-01	3.72E-07	5.10E-07	4.22E-08	
156	1	Subsurface	Silver	mg/kg	1.19E+01	1.48E-05	5.80E-06	9.94E-10	
156	1	Subsurface	Total PAH	mg/kg	8.26E-02	1.03E-07	1.31E-07	5.10E-10	
156	1	Subsurface	Uranium	mg/kg	2.32E+01	2.88E-05	1.41E-05	1.93E-09	
156	1	Subsurface	Uranium-238	pCi/g	2.19E+00	4.86E+03		3.27E-01	7.40E+00
158	1	Subsurface	Antimony	mg/kg	4.90E-01	6.08E-07	2.98E-07	4.09E-11	
158	1	Subsurface	Arsenic	mg/kg	9.51E+00	1.18E-05	3.47E-06	7.94E-10	
158	1	Subsurface	Barium	mg/kg	1.64E+02	2.04E-04	9.98E-05	1.37E-08	
158	1	Subsurface	Beryllium	mg/kg	5.69E-01	7.06E-07	4.84E-08	4.75E-11	
158	1	Subsurface	Chromium	mg/kg	5.11E+01	6.35E-05	3.11E-05	4.27E-09	
158	1	Subsurface	Cobalt	mg/kg	1.26E+01	1.56E-05	7.63E-06	1.05E-09	
158	1	Subsurface	Manganese	mg/kg	1.04E+03	1.30E-03	5.08E-04	8.71E-08	
158	1	Subsurface	Mercury	mg/kg	1.05E+01	1.30E-05	6.36E-06	2.60E-05	
158	1	Subsurface	Neptunium-237	pCi/g	5.96E-02	1.32E+02		8.89E-03	2.01E-01
158	1	Subsurface	Nickel	mg/kg	8.12E+01	1.01E-04	3.95E-05	6.77E-09	
158	1	Subsurface	Silver	mg/kg	1.01E+01	1.25E-05	4.90E-06	8.40E-10	
158	1	Subsurface	Thallium	mg/kg	3.69E-01	4.58E-07	2.24E-07	3.08E-11	
158	1	Subsurface	Total PAH	mg/kg	4.78E-01	5.94E-07	7.56E-07	2.95E-09	
158	1	Subsurface	Uranium	mg/kg	2.03E+01	2.52E-05	1.23E-05	1.69E-09	
158	1	Subsurface	Uranium-235	pCi/g	1.40E-01	3.11E+02		2.09E-02	4.73E-01
158	1	Subsurface	Uranium-238	pCi/g	3.16E+00	7.01E+03		4.71E-01	1.07E+01
160	1	Subsurface	Antimony	mg/kg	6.80E-01	8.44E-07	4.13E-07	5.67E-11	
160	1	Subsurface	Arsenic	mg/kg	8.22E+00	1.02E-05	3.00E-06	6.86E-10	
160	1	Subsurface	Chromium	mg/kg	4.63E+01	5.74E-05	2.81E-05	3.86E-09	
160	1	Subsurface	Silver	mg/kg	1.13E+01	1.40E-05	5.47E-06	9.39E-10	
160	1	Subsurface	Total PAH	mg/kg	1.02E-01	1.27E-07	1.61E-07	6.30E-10	
163	1	Subsurface	Arsenic	mg/kg	1.00E+01	1.24E-05	3.65E-06	8.34E-10	
163	1	Subsurface	Chromium	mg/kg	5.89E+01	7.31E-05	3.58E-05	4.91E-09	
163	1	Subsurface	Mercury	mg/kg	7.53E+00	9.35E-06	4.58E-06	1.87E-05	
163	1	Subsurface	Nickel	mg/kg	7.54E+01	9.36E-05	3.67E-05	6.29E-09	
163	1	Subsurface	Silver	mg/kg	1.05E+01	1.31E-05	5.12E-06	8.78E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
163	1	Subsurface	Total PAH	mg/kg	1.07E-01	1.33E-07	1.69E-07	6.60E-10	
163	1	Subsurface	Vanadium	mg/kg	3.21E+01	3.99E-05	1.02E-05	2.68E-09	
165	1	Subsurface	Aluminum	mg/kg	8.41E+03	1.04E-02	5.11E-03	7.01E-07	
165	1	Subsurface	Antimony	mg/kg	2.20E+00	2.73E-06	1.34E-06	1.84E-10	
165	1	Subsurface	Arsenic	mg/kg	6.37E+01	7.91E-05	2.32E-05	5.31E-09	
165	1	Subsurface	Barium	mg/kg	5.25E+02	6.52E-04	3.19E-04	4.38E-08	
165	1	Subsurface	Beryllium	mg/kg	8.14E-01	1.01E-06	6.93E-08	6.79E-11	
165	1	Subsurface	Cesium-137	pCi/g	3.47E+00	7.71E+03		5.18E-01	1.17E+01
165	1	Subsurface	Chromium	mg/kg	3.61E+01	4.48E-05	2.19E-05	3.01E-09	
165	1	Subsurface	Cobalt	mg/kg	8.44E+00	1.05E-05	5.13E-06	7.04E-10	
165	1	Subsurface	Mercury	mg/kg	3.77E-01	4.68E-07	2.29E-07	9.37E-07	
165	1	Subsurface	Naphthalene	mg/kg	1.51E+00	1.87E-06	4.57E-06	4.18E-06	
165	1	Subsurface	Neptunium-237	pCi/g	4.26E-01	9.46E+02		6.36E-02	1.44E+00
165	1	Subsurface	Nickel	mg/kg	3.36E+01	4.17E-05	1.63E-05	2.80E-09	
165	1	Subsurface	PCB, Total	mg/kg	9.89E+00	1.23E-05	1.68E-05	1.39E-06	
165	1	Subsurface	Plutonium-239/240	pCi/g	2.81E+00	6.23E+03		4.18E-01	9.48E+00
165	1	Subsurface	Silver	mg/kg	3.09E+01	3.84E-05	1.50E-05	2.58E-09	
165	1	Subsurface	Thorium-230	pCi/g	6.02E+00	1.34E+04		8.98E-01	2.03E+01
165	1	Subsurface	Total PAH	mg/kg	1.87E+00	2.32E-06	2.95E-06	1.15E-08	
165	1	Subsurface	Uranium	mg/kg	1.08E+02	1.33E-04	6.53E-05	8.97E-09	
165	1	Subsurface	Uranium-234	pCi/g	5.76E+01	1.28E+05		8.60E+00	1.95E+02
165	1	Subsurface	Uranium-235	pCi/g	2.06E+00	4.58E+03		3.07E-01	6.96E+00
165	1	Subsurface	Uranium-238	pCi/g	6.42E+01	1.42E+05		9.58E+00	2.17E+02
169	1	Subsurface	Aluminum	mg/kg	2.06E+04	2.56E-02	1.25E-02	1.72E-06	
169	1	Subsurface	Antimony	mg/kg	1.30E+00	1.61E-06	7.90E-07	1.08E-10	
169	1	Subsurface	Arsenic	mg/kg	2.03E+01	2.52E-05	7.40E-06	1.69E-09	
169	1	Subsurface	Barium	mg/kg	2.81E+02	3.49E-04	1.71E-04	2.34E-08	
169	1	Subsurface	Beryllium	mg/kg	2.30E+00	2.85E-06	1.96E-07	1.92E-10	
169	1	Subsurface	Chromium	mg/kg	2.15E+02	2.67E-04	1.31E-04	1.79E-08	
169	1	Subsurface	Cobalt	mg/kg	7.80E+01	9.68E-05	4.74E-05	6.51E-09	
169	1	Subsurface	Cobalt-60	pCi/g	7.40E-03	1.64E+01		1.10E-03	2.50E-02
169	1	Subsurface	Copper	mg/kg	4.28E+02	5.31E-04	2.60E-04	3.57E-08	
169	1	Subsurface	Iron	mg/kg	4.16E+04	5.16E-02	2.53E-02	3.47E-06	
169	1	Subsurface	Manganese	mg/kg	1.58E+03	1.96E-03	7.68E-04	1.32E-07	
169	1	Subsurface	Mercury	mg/kg	7.87E+00	9.77E-06	4.78E-06	1.96E-05	
169	1	Subsurface	Nickel	mg/kg	8.04E+02	9.98E-04	3.91E-04	6.71E-08	
169	1	Subsurface	PCB, Total	mg/kg	1.00E+01	1.24E-05	1.70E-05	1.41E-06	
169	1	Subsurface	Thallium	mg/kg	4.60E-01	5.71E-07	2.80E-07	3.84E-11	
169	1	Subsurface	Total PAH	mg/kg	4.59E+00	5.69E-06	7.25E-06	2.83E-08	
169	1	Subsurface	Uranium	mg/kg	5.03E+01	6.24E-05	3.06E-05	4.20E-09	
169	1	Subsurface	Uranium-234	pCi/g	6.55E+00	1.45E+04		9.77E-01	2.21E+01
169	1	Subsurface	Uranium-235	pCi/g	4.60E-01	1.02E+03		6.86E-02	1.55E+00
169	1	Subsurface	Uranium-238	pCi/g	8.12E+00	1.80E+04		1.21E+00	2.74E+01
169	1	Subsurface	Vanadium	mg/kg	4.49E+01	5.57E-05	1.42E-05	3.75E-09	
170	1	Subsurface	Cesium-137	pCi/g	3.35E-01	7.44E+02		5.00E-02	1.13E+00
170	1	Subsurface	Cobalt-60	pCi/g	9.50E-03	2.11E+01		1.42E-03	3.21E-02
170	1	Subsurface	Neptunium-237	pCi/g	1.15E-01	2.55E+02		1.72E-02	3.89E-01
170	1	Subsurface	Uranium-238	pCi/g	2.55E+00	5.66E+03		3.80E-01	8.62E+00
176	1	Subsurface	Arsenic	mg/kg	4.86E+01	6.03E-05	1.77E-05	4.05E-09	
176	1	Subsurface	Chromium	mg/kg	6.11E+01	7.58E-05	3.71E-05	5.09E-09	
176	1	Subsurface	Nickel	mg/kg	1.07E+02	1.33E-04	5.21E-05	8.94E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
176	1	Subsurface	Thallium	mg/kg	4.50E-01	5.59E-07	2.73E-07	3.75E-11	
176	1	Subsurface	Uranium	mg/kg	2.21E+01	2.74E-05	1.34E-05	1.84E-09	
177	1	Subsurface	Arsenic	mg/kg	9.50E+00	1.18E-05	3.46E-06	7.92E-10	
177	1	Subsurface	Chromium	mg/kg	6.62E+01	8.22E-05	4.02E-05	5.52E-09	
177	1	Subsurface	Manganese	mg/kg	9.58E+02	1.19E-03	4.66E-04	7.99E-08	
177	1	Subsurface	Mercury	mg/kg	1.05E+01	1.31E-05	6.41E-06	2.62E-05	
177	1	Subsurface	Nickel	mg/kg	8.47E+01	1.05E-04	4.12E-05	7.06E-09	
177	1	Subsurface	Silver	mg/kg	1.44E+01	1.79E-05	7.01E-06	1.20E-09	
177	1	Subsurface	Thallium	mg/kg	4.00E-01	4.97E-07	2.43E-07	3.34E-11	
180	1	Subsurface	Antimony	mg/kg	5.97E-01	7.41E-07	3.63E-07	4.98E-11	
180	1	Subsurface	Arsenic	mg/kg	7.57E+01	9.40E-05	2.76E-05	6.32E-09	
180	1	Subsurface	Beryllium	mg/kg	6.25E-01	7.76E-07	5.32E-08	5.21E-11	
180	1	Subsurface	Chromium	mg/kg	6.34E+01	7.87E-05	3.85E-05	5.29E-09	
180	1	Subsurface	Cobalt	mg/kg	1.37E+01	1.70E-05	8.34E-06	1.14E-09	
180	1	Subsurface	Manganese	mg/kg	8.24E+02	1.02E-03	4.00E-04	6.87E-08	
180	1	Subsurface	Mercury	mg/kg	8.28E+00	1.03E-05	5.03E-06	2.06E-05	
180	1	Subsurface	Nickel	mg/kg	9.03E+01	1.12E-04	4.39E-05	7.54E-09	
180	1	Subsurface	Silver	mg/kg	1.17E+01	1.45E-05	5.68E-06	9.74E-10	
180	1	Subsurface	Thallium	mg/kg	4.73E-01	5.87E-07	2.87E-07	3.95E-11	
180	2	Subsurface	Antimony	mg/kg	4.58E-01	5.68E-07	2.78E-07	3.82E-11	
180	2	Subsurface	Arsenic	mg/kg	1.17E+01	1.45E-05	4.26E-06	9.74E-10	
180	2	Subsurface	Chromium	mg/kg	6.02E+01	7.47E-05	3.66E-05	5.02E-09	
180	2	Subsurface	Manganese	mg/kg	6.72E+02	8.35E-04	3.27E-04	5.61E-08	
180	2	Subsurface	Mercury	mg/kg	8.25E+00	1.02E-05	5.01E-06	2.05E-05	
180	2	Subsurface	Nickel	mg/kg	8.64E+01	1.07E-04	4.20E-05	7.20E-09	
180	2	Subsurface	Total PAH	mg/kg	9.19E-02	1.14E-07	1.45E-07	5.67E-10	
180	3	Subsurface	Arsenic	mg/kg	1.36E+01	1.69E-05	4.96E-06	1.13E-09	
180	3	Subsurface	Beryllium	mg/kg	5.03E-01	6.24E-07	4.28E-08	4.20E-11	
180	3	Subsurface	Chromium	mg/kg	5.44E+01	6.75E-05	3.31E-05	4.54E-09	
180	3	Subsurface	Manganese	mg/kg	5.12E+02	6.35E-04	2.49E-04	4.27E-08	
180	3	Subsurface	Nickel	mg/kg	7.17E+01	8.90E-05	3.48E-05	5.98E-09	
180	3	Subsurface	Silver	mg/kg	1.14E+01	1.42E-05	5.54E-06	9.51E-10	
180	3	Subsurface	Vanadium	mg/kg	2.87E+01	3.56E-05	9.06E-06	2.39E-09	
180	4	Subsurface	Arsenic	mg/kg	1.11E+01	1.37E-05	4.04E-06	9.23E-10	
180	4	Subsurface	Barium	mg/kg	1.63E+02	2.02E-04	9.88E-05	1.36E-08	
180	4	Subsurface	Beryllium	mg/kg	1.14E+00	1.42E-06	9.70E-08	9.51E-11	
180	4	Subsurface	Chromium	mg/kg	6.00E+01	7.45E-05	3.65E-05	5.01E-09	
180	4	Subsurface	Cobalt	mg/kg	9.68E+00	1.20E-05	5.88E-06	8.08E-10	
180	4	Subsurface	Iron	mg/kg	1.61E+04	1.99E-02	9.76E-03	1.34E-06	
180	4	Subsurface	Manganese	mg/kg	8.05E+02	1.00E-03	3.92E-04	6.72E-08	
180	4	Subsurface	Mercury	mg/kg	6.89E+00	8.55E-06	4.19E-06	1.71E-05	
180	4	Subsurface	Nickel	mg/kg	6.99E+01	8.67E-05	3.40E-05	5.83E-09	
180	4	Subsurface	Silver	mg/kg	1.16E+01	1.44E-05	5.64E-06	9.68E-10	
180	4	Subsurface	Total PAH	mg/kg	1.58E-02	1.96E-08	2.50E-08	9.75E-11	
180	4	Subsurface	Vanadium	mg/kg	3.50E+01	4.34E-05	1.11E-05	2.92E-09	
181	1	Subsurface	Chromium	mg/kg	3.44E+01	4.27E-05	2.09E-05	2.87E-09	
181	1	Subsurface	PCB, Total	mg/kg	1.03E-01	1.28E-07	1.75E-07	1.45E-08	
181	1	Subsurface	Thallium	mg/kg	3.50E+00	4.34E-06	2.13E-06	2.92E-10	
181	1	Subsurface	Total PAH	mg/kg	3.43E-02	4.26E-08	5.42E-08	2.12E-10	
194	1	Subsurface	Antimony	mg/kg	8.62E-01	1.07E-06	5.24E-07	7.19E-11	
194	1	Subsurface	Arsenic	mg/kg	1.02E+01	1.26E-05	3.72E-06	8.50E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	1	Subsurface	Beryllium	mg/kg	5.96E-01	7.40E-07	5.07E-08	4.97E-11	
194	1	Subsurface	Chromium	mg/kg	5.11E+01	6.34E-05	3.10E-05	4.26E-09	
194	1	Subsurface	Manganese	mg/kg	5.82E+02	7.22E-04	2.83E-04	4.85E-08	
194	1	Subsurface	Mercury	mg/kg	6.71E+00	8.33E-06	4.08E-06	1.67E-05	
194	1	Subsurface	Nickel	mg/kg	6.12E+01	7.59E-05	2.97E-05	5.10E-09	
194	1	Subsurface	Silver	mg/kg	1.09E+01	1.36E-05	5.31E-06	9.12E-10	
194	1	Subsurface	Thallium	mg/kg	3.84E-01	4.77E-07	2.33E-07	3.20E-11	
194	1	Subsurface	Vanadium	mg/kg	3.74E+01	4.65E-05	1.18E-05	3.12E-09	
194	2	Subsurface	Antimony	mg/kg	6.59E-01	8.18E-07	4.00E-07	5.50E-11	
194	2	Subsurface	Arsenic	mg/kg	1.02E+01	1.26E-05	3.72E-06	8.50E-10	
194	2	Subsurface	Beryllium	mg/kg	6.96E-01	8.64E-07	5.92E-08	5.81E-11	
194	2	Subsurface	Chromium	mg/kg	5.96E+01	7.40E-05	3.62E-05	4.97E-09	
194	2	Subsurface	Manganese	mg/kg	7.01E+02	8.70E-04	3.41E-04	5.85E-08	
194	2	Subsurface	Mercury	mg/kg	6.90E+00	8.56E-06	4.19E-06	1.72E-05	
194	2	Subsurface	Silver	mg/kg	1.39E+01	1.73E-05	6.76E-06	1.16E-09	
194	2	Subsurface	Uranium	mg/kg	2.68E+01	3.33E-05	1.63E-05	2.24E-09	
194	2	Subsurface	Uranium-238	pCi/g	1.24E+00	2.74E+03		1.84E-01	4.17E+00
194	2	Subsurface	Vanadium	mg/kg	3.55E+01	4.40E-05	1.12E-05	2.96E-09	
194	3	Subsurface	Antimony	mg/kg	5.92E-01	7.35E-07	3.60E-07	4.94E-11	
194	3	Subsurface	Arsenic	mg/kg	1.44E+01	1.79E-05	5.26E-06	1.20E-09	
194	3	Subsurface	Cesium-137	pCi/g	2.35E-01	5.22E+02		3.51E-02	7.94E-01
194	3	Subsurface	Chromium	mg/kg	4.98E+01	6.18E-05	3.02E-05	4.15E-09	
194	3	Subsurface	Nickel	mg/kg	6.32E+01	7.85E-05	3.07E-05	5.27E-09	
194	3	Subsurface	Total PAH	mg/kg	3.39E-02	4.21E-08	5.36E-08	2.09E-10	
194	3	Subsurface	Uranium-238	pCi/g	1.16E+00	2.58E+03		1.73E-01	3.93E+00
194	4	Subsurface	Aluminum	mg/kg	8.50E+03	1.06E-02	5.17E-03	7.09E-07	
194	4	Subsurface	Arsenic	mg/kg	1.02E+01	1.27E-05	3.73E-06	8.53E-10	
194	4	Subsurface	Beryllium	mg/kg	5.87E-01	7.29E-07	4.99E-08	4.90E-11	
194	4	Subsurface	Cesium-137	pCi/g	1.44E-01	3.20E+02		2.15E-02	4.87E-01
194	4	Subsurface	Chromium	mg/kg	5.59E+01	6.94E-05	3.40E-05	4.66E-09	
194	4	Subsurface	Iron	mg/kg	1.83E+04	2.27E-02	1.11E-02	1.52E-06	
194	4	Subsurface	Manganese	mg/kg	4.76E+02	5.91E-04	2.31E-04	3.97E-08	
194	4	Subsurface	Mercury	mg/kg	8.92E+00	1.11E-05	5.42E-06	2.22E-05	
194	4	Subsurface	Nickel	mg/kg	8.15E+01	1.01E-04	3.96E-05	6.80E-09	
194	4	Subsurface	Silver	mg/kg	1.23E+01	1.52E-05	5.97E-06	1.02E-09	
194	4	Subsurface	Total PAH	mg/kg	2.85E-02	3.54E-08	4.50E-08	1.76E-10	
194	4	Subsurface	Uranium-238	pCi/g	1.02E+00	2.27E+03		1.53E-01	3.46E+00
194	4	Subsurface	Vanadium	mg/kg	3.07E+01	3.81E-05	9.70E-06	2.56E-09	
194	5	Subsurface	Aluminum	mg/kg	9.38E+03	1.16E-02	5.70E-03	7.83E-07	
194	5	Subsurface	Arsenic	mg/kg	9.71E+00	1.21E-05	3.54E-06	8.10E-10	
194	5	Subsurface	Beryllium	mg/kg	6.26E-01	7.77E-07	5.33E-08	5.22E-11	
194	5	Subsurface	Chromium	mg/kg	5.54E+01	6.88E-05	3.37E-05	4.62E-09	
194	5	Subsurface	Manganese	mg/kg	1.39E+03	1.72E-03	6.73E-04	1.16E-07	
194	5	Subsurface	Mercury	mg/kg	8.69E+00	1.08E-05	5.28E-06	2.16E-05	
194	5	Subsurface	Nickel	mg/kg	7.56E+01	9.39E-05	3.68E-05	6.31E-09	
194	5	Subsurface	Silver	mg/kg	1.29E+01	1.60E-05	6.29E-06	1.08E-09	
194	5	Subsurface	Total PAH	mg/kg	4.50E-01	5.59E-07	7.11E-07	2.78E-09	
194	5	Subsurface	Uranium-238	pCi/g	1.11E+00	2.47E+03		1.66E-01	3.76E+00
194	5	Subsurface	Vanadium	mg/kg	3.19E+01	3.96E-05	1.01E-05	2.66E-09	
194	6	Subsurface	Manganese	mg/kg	1.37E+03	1.70E-03	6.67E-04	1.14E-07	
194	6	Subsurface	Nickel	mg/kg	6.98E+01	8.67E-05	3.39E-05	5.83E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	6	Subsurface	Silver	mg/kg	9.89E+00	1.23E-05	4.81E-06	8.25E-10	
194	6	Subsurface	Uranium-238	pCi/g	1.12E+00	2.48E+03		1.67E-01	3.77E+00
194	7	Subsurface	Arsenic	mg/kg	1.02E+01	1.27E-05	3.72E-06	8.52E-10	
194	7	Subsurface	Chromium	mg/kg	5.32E+01	6.60E-05	3.23E-05	4.44E-09	
194	7	Subsurface	Manganese	mg/kg	7.86E+02	9.75E-04	3.82E-04	6.55E-08	
194	7	Subsurface	Nickel	mg/kg	7.71E+01	9.58E-05	3.75E-05	6.43E-09	
194	7	Subsurface	Silver	mg/kg	1.25E+01	1.55E-05	6.08E-06	1.04E-09	
194	8	Subsurface	Antimony	mg/kg	5.58E-01	6.93E-07	3.39E-07	4.65E-11	
194	8	Subsurface	Arsenic	mg/kg	1.09E+01	1.35E-05	3.96E-06	9.07E-10	
194	8	Subsurface	Cesium-137	pCi/g	2.78E-01	6.17E+02		4.15E-02	9.39E-01
194	8	Subsurface	Chromium	mg/kg	6.09E+01	7.56E-05	3.70E-05	5.08E-09	
194	8	Subsurface	Cobalt	mg/kg	1.33E+01	1.65E-05	8.08E-06	1.11E-09	
194	8	Subsurface	Manganese	mg/kg	1.33E+03	1.65E-03	6.47E-04	1.11E-07	
194	8	Subsurface	Nickel	mg/kg	6.01E+01	7.46E-05	2.92E-05	5.01E-09	
194	8	Subsurface	Total PAH	mg/kg	3.74E-01	4.64E-07	5.91E-07	2.31E-09	
194	8	Subsurface	Uranium-238	pCi/g	1.18E+00	2.62E+03		1.76E-01	3.99E+00
194	9	Subsurface	Arsenic	mg/kg	9.77E+00	1.21E-05	3.56E-06	8.15E-10	
194	9	Subsurface	Chromium	mg/kg	4.48E+01	5.56E-05	2.72E-05	3.74E-09	
194	9	Subsurface	Manganese	mg/kg	5.54E+02	6.88E-04	2.69E-04	4.62E-08	
194	9	Subsurface	Nickel	mg/kg	5.98E+01	7.43E-05	2.91E-05	4.99E-09	
194	9	Subsurface	Silver	mg/kg	1.07E+01	1.33E-05	5.22E-06	8.95E-10	
194	10	Subsurface	Arsenic	mg/kg	1.10E+01	1.37E-05	4.02E-06	9.19E-10	
194	10	Subsurface	Cesium-137	pCi/g	5.81E-01	1.29E+03		8.67E-02	1.96E+00
194	10	Subsurface	Chromium	mg/kg	5.00E+01	6.20E-05	3.04E-05	4.17E-09	
194	10	Subsurface	Mercury	mg/kg	8.07E+00	1.00E-05	4.90E-06	2.01E-05	
194	10	Subsurface	Nickel	mg/kg	7.60E+01	9.43E-05	3.69E-05	6.34E-09	
194	10	Subsurface	Thallium	mg/kg	4.50E-01	5.59E-07	2.73E-07	3.75E-11	
194	10	Subsurface	Total PAH	mg/kg	2.57E-01	3.19E-07	4.06E-07	1.59E-09	
194	10	Subsurface	Uranium-238	pCi/g	1.49E+00	3.31E+03		2.22E-01	5.03E+00
194	11	Subsurface	Arsenic	mg/kg	1.08E+01	1.34E-05	3.92E-06	8.98E-10	
194	11	Subsurface	Chromium	mg/kg	5.66E+01	7.02E-05	3.44E-05	4.72E-09	
194	11	Subsurface	Mercury	mg/kg	8.09E+00	1.00E-05	4.92E-06	2.01E-05	
194	11	Subsurface	Nickel	mg/kg	1.01E+02	1.25E-04	4.89E-05	8.40E-09	
194	11	Subsurface	PCB, Total	mg/kg	8.40E-02	1.04E-07	1.43E-07	1.18E-08	
194	11	Subsurface	Silver	mg/kg	1.33E+01	1.65E-05	6.46E-06	1.11E-09	
194	11	Subsurface	Thallium	mg/kg	3.70E-01	4.59E-07	2.25E-07	3.09E-11	
194	11	Subsurface	Total PAH	mg/kg	7.95E-02	9.87E-08	1.26E-07	4.91E-10	
194	12	Subsurface	Arsenic	mg/kg	9.18E+00	1.14E-05	3.35E-06	7.66E-10	
194	12	Subsurface	Chromium	mg/kg	6.34E+01	7.86E-05	3.85E-05	5.29E-09	
194	12	Subsurface	Manganese	mg/kg	7.31E+02	9.07E-04	3.55E-04	6.09E-08	
194	12	Subsurface	Nickel	mg/kg	7.86E+01	9.76E-05	3.82E-05	6.56E-09	
194	12	Subsurface	Silver	mg/kg	1.54E+01	1.91E-05	7.46E-06	1.28E-09	
194	12	Subsurface	Total PAH	mg/kg	7.07E-01	8.78E-07	1.12E-06	4.36E-09	
194	13	Subsurface	Arsenic	mg/kg	9.90E+00	1.23E-05	3.61E-06	8.26E-10	
194	13	Subsurface	Chromium	mg/kg	6.25E+01	7.75E-05	3.80E-05	5.21E-09	
194	13	Subsurface	Manganese	mg/kg	6.05E+02	7.51E-04	2.94E-04	5.05E-08	
194	13	Subsurface	Nickel	mg/kg	6.80E+01	8.44E-05	3.31E-05	5.67E-09	
194	13	Subsurface	Total PAH	mg/kg	6.73E-02	8.35E-08	1.06E-07	4.15E-10	
194	14	Subsurface	Aluminum	mg/kg	1.26E+04	1.57E-02	7.68E-03	1.05E-06	
194	14	Subsurface	Arsenic	mg/kg	1.09E+01	1.35E-05	3.96E-06	9.05E-10	
194	14	Subsurface	Chromium	mg/kg	6.09E+01	7.56E-05	3.70E-05	5.08E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	14	Subsurface	Manganese	mg/kg	7.02E+02	8.71E-04	3.41E-04	5.86E-08	
194	14	Subsurface	Mercury	mg/kg	8.94E+00	1.11E-05	5.43E-06	2.22E-05	
194	14	Subsurface	Nickel	mg/kg	7.09E+01	8.79E-05	3.44E-05	5.91E-09	
194	14	Subsurface	Vanadium	mg/kg	3.51E+01	4.36E-05	1.11E-05	2.93E-09	
194	15	Subsurface	Arsenic	mg/kg	8.95E+00	1.11E-05	3.26E-06	7.46E-10	
194	15	Subsurface	Chromium	mg/kg	6.06E+01	7.52E-05	3.68E-05	5.05E-09	
194	15	Subsurface	Manganese	mg/kg	6.10E+02	7.57E-04	2.96E-04	5.09E-08	
194	15	Subsurface	Nickel	mg/kg	7.98E+01	9.90E-05	3.88E-05	6.65E-09	
194	15	Subsurface	Silver	mg/kg	1.17E+01	1.45E-05	5.68E-06	9.74E-10	
194	16	Subsurface	Antimony	mg/kg	5.08E-01	6.31E-07	3.09E-07	4.24E-11	
194	16	Subsurface	Arsenic	mg/kg	1.09E+01	1.36E-05	3.99E-06	9.12E-10	
194	16	Subsurface	Beryllium	mg/kg	6.46E-01	8.02E-07	5.50E-08	5.39E-11	
194	16	Subsurface	Chromium	mg/kg	5.32E+01	6.61E-05	3.24E-05	4.44E-09	
194	16	Subsurface	Manganese	mg/kg	1.72E+03	2.13E-03	8.36E-04	1.43E-07	
194	16	Subsurface	Nickel	mg/kg	8.59E+01	1.07E-04	4.18E-05	7.16E-09	
194	16	Subsurface	Silver	mg/kg	1.23E+01	1.53E-05	5.99E-06	1.03E-09	
194	16	Subsurface	Thallium	mg/kg	3.81E-01	4.73E-07	2.32E-07	3.18E-11	
194	16	Subsurface	Vanadium	mg/kg	3.24E+01	4.02E-05	1.02E-05	2.70E-09	
194	17	Subsurface	Arsenic	mg/kg	1.12E+01	1.38E-05	4.07E-06	9.30E-10	
194	17	Subsurface	Cadmium	mg/kg	8.52E-01	1.06E-06	1.04E-08	7.11E-11	
194	17	Subsurface	Cesium-137	pCi/g	2.53E-01	5.62E+02		3.77E-02	8.55E-01
194	17	Subsurface	Chromium	mg/kg	5.45E+01	6.77E-05	3.31E-05	4.55E-09	
194	17	Subsurface	Nickel	mg/kg	6.94E+01	8.61E-05	3.37E-05	5.79E-09	
194	17	Subsurface	Total PAH	mg/kg	1.04E-01	1.29E-07	1.64E-07	6.41E-10	
194	18	Subsurface	Aluminum	mg/kg	1.67E+04	2.07E-02	1.01E-02	1.39E-06	
194	18	Subsurface	Antimony	mg/kg	5.94E-01	7.37E-07	3.61E-07	4.96E-11	
194	18	Subsurface	Arsenic	mg/kg	1.19E+01	1.47E-05	4.33E-06	9.90E-10	
194	18	Subsurface	Beryllium	mg/kg	7.21E-01	8.95E-07	6.13E-08	6.01E-11	
194	18	Subsurface	Chromium	mg/kg	6.85E+01	8.50E-05	4.16E-05	5.71E-09	
194	18	Subsurface	Iron	mg/kg	2.10E+04	2.61E-02	1.28E-02	1.76E-06	
194	18	Subsurface	Manganese	mg/kg	7.72E+02	9.59E-04	3.76E-04	6.44E-08	
194	18	Subsurface	Nickel	mg/kg	9.80E+01	1.22E-04	4.76E-05	8.17E-09	
194	18	Subsurface	Thallium	mg/kg	3.04E-01	3.77E-07	1.85E-07	2.54E-11	
194	18	Subsurface	Vanadium	mg/kg	3.90E+01	4.85E-05	1.23E-05	3.26E-09	
194	19	Subsurface	Arsenic	mg/kg	9.96E+00	1.24E-05	3.63E-06	8.31E-10	
194	19	Subsurface	Chromium	mg/kg	4.84E+01	6.00E-05	2.94E-05	4.03E-09	
194	19	Subsurface	Nickel	mg/kg	6.83E+01	8.47E-05	3.32E-05	5.69E-09	
194	19	Subsurface	Silver	mg/kg	9.44E+00	1.17E-05	4.59E-06	7.87E-10	
194	20	Subsurface	Arsenic	mg/kg	1.14E+01	1.42E-05	4.17E-06	9.54E-10	
194	20	Subsurface	Barium	mg/kg	2.35E+02	2.92E-04	1.43E-04	1.96E-08	
194	20	Subsurface	Beryllium	mg/kg	8.66E-01	1.07E-06	7.37E-08	7.22E-11	
194	20	Subsurface	Chromium	mg/kg	7.11E+01	8.82E-05	4.32E-05	5.93E-09	
194	20	Subsurface	Cobalt	mg/kg	1.48E+01	1.84E-05	9.01E-06	1.24E-09	
194	20	Subsurface	Manganese	mg/kg	2.33E+03	2.89E-03	1.13E-03	1.94E-07	
194	20	Subsurface	Mercury	mg/kg	7.28E+00	9.04E-06	4.42E-06	1.81E-05	
194	20	Subsurface	Nickel	mg/kg	6.57E+01	8.16E-05	3.19E-05	5.48E-09	
194	20	Subsurface	Silver	mg/kg	1.08E+01	1.34E-05	5.23E-06	8.98E-10	
194	20	Subsurface	Total PAH	mg/kg	2.08E-02	2.58E-08	3.29E-08	1.28E-10	
194	20	Subsurface	Vanadium	mg/kg	3.29E+01	4.08E-05	1.04E-05	2.74E-09	
194	21	Subsurface	Antimony	mg/kg	9.30E-01	1.15E-06	5.65E-07	7.76E-11	
194	21	Subsurface	Arsenic	mg/kg	3.52E+01	4.37E-05	1.28E-05	2.94E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	21	Subsurface	Barium	mg/kg	2.96E+03	3.67E-03	1.80E-03	2.47E-07	
194	21	Subsurface	Beryllium	mg/kg	1.80E+00	2.23E-06	1.53E-07	1.50E-10	
194	21	Subsurface	Chromium	mg/kg	5.51E+01	6.84E-05	3.35E-05	4.60E-09	
194	21	Subsurface	Cobalt	mg/kg	8.31E+01	1.03E-04	5.05E-05	6.93E-09	
194	21	Subsurface	Iron	mg/kg	4.73E+04	5.87E-02	2.87E-02	3.95E-06	
194	21	Subsurface	Manganese	mg/kg	3.11E+04	3.86E-02	1.51E-02	2.59E-06	
194	21	Subsurface	Mercury	mg/kg	6.62E+00	8.22E-06	4.02E-06	1.65E-05	
194	21	Subsurface	Nickel	mg/kg	7.01E+01	8.70E-05	3.41E-05	5.85E-09	
194	21	Subsurface	Thallium	mg/kg	1.40E+00	1.74E-06	8.51E-07	1.17E-10	
194	21	Subsurface	Vanadium	mg/kg	8.63E+01	1.07E-04	2.73E-05	7.20E-09	
194	22	Subsurface	Aluminum	mg/kg	1.13E+04	1.40E-02	6.86E-03	9.42E-07	
194	22	Subsurface	Antimony	mg/kg	5.29E-01	6.57E-07	3.21E-07	4.41E-11	
194	22	Subsurface	Arsenic	mg/kg	1.15E+01	1.43E-05	4.19E-06	9.59E-10	
194	22	Subsurface	Cesium-137	pCi/g	1.62E-01	3.60E+02		2.42E-02	5.47E-01
194	22	Subsurface	Chromium	mg/kg	4.75E+01	5.90E-05	2.89E-05	3.97E-09	
194	22	Subsurface	Cobalt	mg/kg	1.08E+01	1.34E-05	6.54E-06	8.98E-10	
194	22	Subsurface	Manganese	mg/kg	1.06E+03	1.31E-03	5.15E-04	8.83E-08	
194	22	Subsurface	Nickel	mg/kg	7.08E+01	8.78E-05	3.44E-05	5.90E-09	
194	22	Subsurface	PCB, Total	mg/kg	1.04E+01	1.29E-05	1.77E-05	1.46E-06	
194	22	Subsurface	Silver	mg/kg	1.14E+01	1.41E-05	5.52E-06	9.47E-10	
194	23	Subsurface	Arsenic	mg/kg	1.12E+01	1.39E-05	4.09E-06	9.37E-10	
194	23	Subsurface	Cadmium	mg/kg	6.58E+00	8.17E-06	8.00E-08	5.49E-10	
194	23	Subsurface	Cesium-137	pCi/g	2.83E-01	6.28E+02		4.22E-02	9.56E-01
194	23	Subsurface	Chromium	mg/kg	5.90E+01	7.32E-05	3.58E-05	4.92E-09	
194	23	Subsurface	Iron	mg/kg	1.94E+04	2.40E-02	1.18E-02	1.62E-06	
194	23	Subsurface	Manganese	mg/kg	7.24E+02	8.99E-04	3.52E-04	6.04E-08	
194	23	Subsurface	Mercury	mg/kg	7.75E+00	9.62E-06	4.71E-06	1.93E-05	
194	23	Subsurface	Nickel	mg/kg	7.33E+01	9.10E-05	3.57E-05	6.12E-09	
194	23	Subsurface	Silver	mg/kg	1.04E+01	1.28E-05	5.03E-06	8.63E-10	
194	24	Subsurface	Arsenic	mg/kg	1.19E+01	1.48E-05	4.35E-06	9.94E-10	
194	24	Subsurface	Beryllium	mg/kg	6.50E-01	8.07E-07	5.53E-08	5.42E-11	
194	24	Subsurface	Cesium-137	pCi/g	2.13E-01	4.73E+02		3.18E-02	7.20E-01
194	24	Subsurface	Chromium	mg/kg	4.67E+01	5.80E-05	2.84E-05	3.90E-09	
194	24	Subsurface	Iron	mg/kg	2.31E+04	2.87E-02	1.40E-02	1.93E-06	
194	24	Subsurface	Manganese	mg/kg	6.03E+02	7.48E-04	2.93E-04	5.03E-08	
194	24	Subsurface	Mercury	mg/kg	7.03E+00	8.73E-06	4.27E-06	1.75E-05	
194	24	Subsurface	Nickel	mg/kg	8.41E+01	1.04E-04	4.09E-05	7.02E-09	
194	24	Subsurface	Total PAH	mg/kg	1.49E-02	1.85E-08	2.35E-08	9.19E-11	
194	25	Subsurface	Aluminum	mg/kg	1.45E+04	1.80E-02	8.81E-03	1.21E-06	
194	25	Subsurface	Arsenic	mg/kg	1.05E+01	1.30E-05	3.83E-06	8.77E-10	
194	25	Subsurface	Barium	mg/kg	3.00E+02	3.72E-04	1.82E-04	2.50E-08	
194	25	Subsurface	Beryllium	mg/kg	8.30E-01	1.03E-06	7.06E-08	6.92E-11	
194	25	Subsurface	Chromium	mg/kg	5.23E+01	6.49E-05	3.18E-05	4.36E-09	
194	25	Subsurface	Manganese	mg/kg	9.90E+02	1.23E-03	4.81E-04	8.26E-08	
194	25	Subsurface	Nickel	mg/kg	6.33E+01	7.86E-05	3.08E-05	5.28E-09	
194	25	Subsurface	Total PAH	mg/kg	2.06E-02	2.56E-08	3.25E-08	1.27E-10	
194	26	Subsurface	Aluminum	mg/kg	1.21E+04	1.50E-02	7.34E-03	1.01E-06	
194	26	Subsurface	Arsenic	mg/kg	9.09E+00	1.13E-05	3.31E-06	7.58E-10	
194	26	Subsurface	Beryllium	mg/kg	7.31E-01	9.07E-07	6.22E-08	6.10E-11	
194	26	Subsurface	Chromium	mg/kg	4.81E+01	5.97E-05	2.92E-05	4.01E-09	
194	26	Subsurface	Cobalt	mg/kg	1.34E+01	1.67E-05	8.16E-06	1.12E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	26	Subsurface	Manganese	mg/kg	6.25E+02	7.76E-04	3.04E-04	5.21E-08	
194	26	Subsurface	Silver	mg/kg	1.03E+01	1.27E-05	4.99E-06	8.57E-10	
194	26	Subsurface	Thallium	mg/kg	3.12E-01	3.87E-07	1.90E-07	2.60E-11	
194	26	Subsurface	Vanadium	mg/kg	3.84E+01	4.77E-05	1.21E-05	3.20E-09	
194	27	Subsurface	Antimony	mg/kg	4.96E-01	6.16E-07	3.01E-07	4.14E-11	
194	27	Subsurface	Arsenic	mg/kg	1.07E+01	1.32E-05	3.88E-06	8.88E-10	
194	27	Subsurface	Chromium	mg/kg	5.16E+01	6.41E-05	3.14E-05	4.31E-09	
194	27	Subsurface	Nickel	mg/kg	6.55E+01	8.13E-05	3.18E-05	5.46E-09	
194	27	Subsurface	Silver	mg/kg	1.03E+01	1.28E-05	5.01E-06	8.59E-10	
194	28	Subsurface	Arsenic	mg/kg	1.13E+01	1.40E-05	4.11E-06	9.41E-10	
194	28	Subsurface	Beryllium	mg/kg	7.41E-01	9.20E-07	6.30E-08	6.18E-11	
194	28	Subsurface	Chromium	mg/kg	6.36E+01	7.89E-05	3.86E-05	5.30E-09	
194	28	Subsurface	Manganese	mg/kg	1.21E+03	1.50E-03	5.86E-04	1.01E-07	
194	28	Subsurface	Nickel	mg/kg	6.89E+01	8.55E-05	3.35E-05	5.75E-09	
194	28	Subsurface	Silver	mg/kg	1.52E+01	1.89E-05	7.39E-06	1.27E-09	
194	28	Subsurface	Vanadium	mg/kg	3.85E+01	4.78E-05	1.22E-05	3.21E-09	
194	29	Subsurface	Aluminum	mg/kg	1.32E+04	1.64E-02	8.02E-03	1.10E-06	
194	29	Subsurface	Antimony	mg/kg	7.10E-01	8.81E-07	4.31E-07	5.92E-11	
194	29	Subsurface	Arsenic	mg/kg	1.43E+01	1.77E-05	5.21E-06	1.19E-09	
194	29	Subsurface	Barium	mg/kg	1.88E+02	2.33E-04	1.14E-04	1.57E-08	
194	29	Subsurface	Beryllium	mg/kg	8.20E-01	1.02E-06	6.98E-08	6.84E-11	
194	29	Subsurface	Chromium	mg/kg	5.76E+01	7.15E-05	3.50E-05	4.80E-09	
194	29	Subsurface	Cobalt	mg/kg	1.41E+01	1.75E-05	8.57E-06	1.18E-09	
194	29	Subsurface	Manganese	mg/kg	2.65E+03	3.29E-03	1.29E-03	2.21E-07	
194	29	Subsurface	Nickel	mg/kg	8.47E+01	1.05E-04	4.12E-05	7.06E-09	
194	29	Subsurface	Silver	mg/kg	9.77E+00	1.21E-05	4.75E-06	8.15E-10	
194	29	Subsurface	Thallium	mg/kg	4.40E-01	5.46E-07	2.67E-07	3.67E-11	
194	29	Subsurface	Vanadium	mg/kg	4.12E+01	5.11E-05	1.30E-05	3.44E-09	
194	30	Subsurface	Arsenic	mg/kg	9.44E+00	1.17E-05	3.44E-06	7.88E-10	
194	30	Subsurface	Beryllium	mg/kg	3.16E+00	3.93E-06	2.69E-07	2.64E-10	
194	30	Subsurface	Chromium	mg/kg	5.70E+01	7.08E-05	3.47E-05	4.76E-09	
194	30	Subsurface	Manganese	mg/kg	6.15E+02	7.63E-04	2.99E-04	5.13E-08	
194	30	Subsurface	Mercury	mg/kg	8.80E+00	1.09E-05	5.35E-06	2.19E-05	
194	30	Subsurface	Nickel	mg/kg	6.99E+01	8.67E-05	3.40E-05	5.83E-09	
194	30	Subsurface	Silver	mg/kg	1.04E+01	1.29E-05	5.05E-06	8.66E-10	
194	30	Subsurface	Vanadium	mg/kg	2.79E+01	3.46E-05	8.81E-06	2.32E-09	
194	31	Subsurface	Cesium-137	pCi/g	5.70E-01	1.27E+03		8.50E-02	1.93E+00
194	31	Subsurface	Uranium-238	pCi/g	1.72E+00	3.82E+03		2.57E-01	5.81E+00
195	1	Subsurface	Arsenic	mg/kg	1.17E+01	1.46E-05	4.28E-06	9.78E-10	
195	1	Subsurface	Cesium-137	pCi/g	3.70E-01	8.21E+02		5.52E-02	1.25E+00
195	1	Subsurface	Chromium	mg/kg	5.85E+01	7.27E-05	3.56E-05	4.88E-09	
195	1	Subsurface	Nickel	mg/kg	8.00E+01	9.93E-05	3.89E-05	6.67E-09	
195	1	Subsurface	Silver	mg/kg	9.37E+00	1.16E-05	4.56E-06	7.82E-10	
195	1	Subsurface	Thallium	mg/kg	2.99E-01	3.71E-07	1.82E-07	2.49E-11	
195	1	Subsurface	Total PAH	mg/kg	1.53E-02	1.90E-08	2.42E-08	9.44E-11	
195	2	Subsurface	Chromium	mg/kg	5.63E+01	6.99E-05	3.42E-05	4.70E-09	
195	2	Subsurface	Silver	mg/kg	9.48E+00	1.18E-05	4.61E-06	7.91E-10	
195	2	Subsurface	Total PAH	mg/kg	1.93E-02	2.40E-08	3.05E-08	1.19E-10	
195	3	Subsurface	Arsenic	mg/kg	1.09E+01	1.35E-05	3.96E-06	9.05E-10	
195	3	Subsurface	Chromium	mg/kg	5.29E+01	6.56E-05	3.21E-05	4.41E-09	
195	3	Subsurface	Manganese	mg/kg	4.88E+02	6.05E-04	2.37E-04	4.07E-08	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
195	3	Subsurface	Nickel	mg/kg	9.63E+01	1.20E-04	4.68E-05	8.04E-09	
195	3	Subsurface	Total PAH	mg/kg	3.31E-02	4.11E-08	5.23E-08	2.04E-10	
195	4	Subsurface	Arsenic	mg/kg	1.01E+01	1.25E-05	3.68E-06	8.41E-10	
195	4	Subsurface	Chromium	mg/kg	5.08E+01	6.30E-05	3.08E-05	4.23E-09	
195	4	Subsurface	Nickel	mg/kg	8.37E+01	1.04E-04	4.07E-05	6.98E-09	
195	4	Subsurface	Silver	mg/kg	8.80E+00	1.09E-05	4.28E-06	7.34E-10	
195	4	Subsurface	Thallium	mg/kg	3.39E-01	4.21E-07	2.06E-07	2.83E-11	
195	5	Subsurface	Arsenic	mg/kg	8.80E+00	1.09E-05	3.21E-06	7.34E-10	
195	5	Subsurface	Cesium-137	pCi/g	3.41E-01	7.57E+02		5.09E-02	1.15E+00
195	5	Subsurface	Chromium	mg/kg	5.74E+01	7.13E-05	3.49E-05	4.79E-09	
195	5	Subsurface	Nickel	mg/kg	8.11E+01	1.01E-04	3.94E-05	6.77E-09	
195	5	Subsurface	Silver	mg/kg	8.41E+00	1.04E-05	4.09E-06	7.02E-10	
195	5	Subsurface	Thallium	mg/kg	5.50E-01	6.83E-07	3.34E-07	4.59E-11	
195	5	Subsurface	Total PAH	mg/kg	2.40E-02	2.98E-08	3.79E-08	1.48E-10	
195	6	Subsurface	Arsenic	mg/kg	1.05E+01	1.30E-05	3.82E-06	8.75E-10	
195	6	Subsurface	Cesium-137	pCi/g	2.26E-01	5.02E+02		3.37E-02	7.64E-01
195	6	Subsurface	Chromium	mg/kg	5.52E+01	6.85E-05	3.35E-05	4.60E-09	
195	6	Subsurface	Nickel	mg/kg	9.81E+01	1.22E-04	4.77E-05	8.18E-09	
195	6	Subsurface	Silver	mg/kg	1.00E+01	1.24E-05	4.87E-06	8.35E-10	
195	6	Subsurface	Total PAH	mg/kg	1.91E-01	2.37E-07	3.02E-07	1.18E-09	
195	7	Subsurface	Arsenic	mg/kg	8.49E+00	1.05E-05	3.10E-06	7.08E-10	
195	7	Subsurface	Chromium	mg/kg	4.74E+01	5.88E-05	2.88E-05	3.95E-09	
195	7	Subsurface	Cobalt	mg/kg	1.13E+01	1.41E-05	6.89E-06	9.45E-10	
195	7	Subsurface	Silver	mg/kg	8.06E+00	1.00E-05	3.92E-06	6.72E-10	
195	8	Subsurface	Arsenic	mg/kg	1.12E+01	1.38E-05	4.07E-06	9.30E-10	
195	8	Subsurface	Beryllium	mg/kg	6.78E-01	8.42E-07	5.77E-08	5.66E-11	
195	8	Subsurface	Cesium-137	pCi/g	2.44E-01	5.42E+02		3.64E-02	8.24E-01
195	8	Subsurface	Chromium	mg/kg	5.23E+01	6.49E-05	3.18E-05	4.36E-09	
195	8	Subsurface	Cobalt	mg/kg	1.41E+01	1.75E-05	8.55E-06	1.17E-09	
195	8	Subsurface	Manganese	mg/kg	6.90E+02	8.57E-04	3.36E-04	5.76E-08	
195	8	Subsurface	Nickel	mg/kg	8.93E+01	1.11E-04	4.34E-05	7.45E-09	
195	8	Subsurface	Silver	mg/kg	8.51E+00	1.06E-05	4.14E-06	7.10E-10	
195	8	Subsurface	Total PAH	mg/kg	1.42E-01	1.76E-07	2.24E-07	8.76E-10	
195	8	Subsurface	Vanadium	mg/kg	3.70E+01	4.59E-05	1.17E-05	3.08E-09	
195	9	Subsurface	Arsenic	mg/kg	1.03E+01	1.28E-05	3.77E-06	8.62E-10	
195	9	Subsurface	Chromium	mg/kg	6.08E+01	7.55E-05	3.69E-05	5.07E-09	
195	9	Subsurface	Nickel	mg/kg	9.12E+01	1.13E-04	4.43E-05	7.61E-09	
195	9	Subsurface	Silver	mg/kg	9.33E+00	1.16E-05	4.54E-06	7.78E-10	
195	10	Subsurface	Arsenic	mg/kg	9.83E+00	1.22E-05	3.58E-06	8.20E-10	
195	10	Subsurface	Chromium	mg/kg	4.29E+01	5.32E-05	2.60E-05	3.57E-09	
195	10	Subsurface	Manganese	mg/kg	3.79E+02	4.70E-04	1.84E-04	3.16E-08	
195	10	Subsurface	Nickel	mg/kg	7.98E+01	9.91E-05	3.88E-05	6.66E-09	
195	10	Subsurface	Silver	mg/kg	1.31E+01	1.63E-05	6.37E-06	1.09E-09	
195	11	Subsurface	Aluminum	mg/kg	1.93E+04	2.40E-02	1.17E-02	1.61E-06	
195	11	Subsurface	Arsenic	mg/kg	1.30E+01	1.61E-05	4.72E-06	1.08E-09	
195	11	Subsurface	Barium	mg/kg	3.18E+02	3.94E-04	1.93E-04	2.65E-08	
195	11	Subsurface	Cesium-137	pCi/g	2.13E-01	4.73E+02		3.18E-02	7.20E-01
195	11	Subsurface	Chromium	mg/kg	5.67E+01	7.04E-05	3.45E-05	4.73E-09	
195	11	Subsurface	Cobalt	mg/kg	1.87E+01	2.32E-05	1.13E-05	1.56E-09	
195	11	Subsurface	Iron	mg/kg	2.10E+04	2.61E-02	1.28E-02	1.75E-06	
195	11	Subsurface	Manganese	mg/kg	5.25E+02	6.52E-04	2.55E-04	4.38E-08	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
195	11	Subsurface	Nickel	mg/kg	8.37E+01	1.04E-04	4.07E-05	6.98E-09	
195	11	Subsurface	Silver	mg/kg	8.26E+00	1.03E-05	4.02E-06	6.89E-10	
195	11	Subsurface	Thallium	mg/kg	4.46E-01	5.54E-07	2.71E-07	3.72E-11	
195	11	Subsurface	Total PAH	mg/kg	2.83E-02	3.51E-08	4.47E-08	1.75E-10	
195	11	Subsurface	Vanadium	mg/kg	5.55E+01	6.89E-05	1.75E-05	4.63E-09	
195	12	Subsurface	Arsenic	mg/kg	1.08E+01	1.33E-05	3.92E-06	8.97E-10	
195	12	Subsurface	Beryllium	mg/kg	6.22E-01	7.72E-07	5.29E-08	5.19E-11	
195	12	Subsurface	Chromium	mg/kg	6.45E+01	8.00E-05	3.92E-05	5.38E-09	
195	12	Subsurface	Manganese	mg/kg	4.77E+02	5.92E-04	2.32E-04	3.98E-08	
195	12	Subsurface	Nickel	mg/kg	9.19E+01	1.14E-04	4.47E-05	7.67E-09	
195	12	Subsurface	Vanadium	mg/kg	3.68E+01	4.57E-05	1.16E-05	3.07E-09	
195	13	Subsurface	Arsenic	mg/kg	9.12E+00	1.13E-05	3.33E-06	7.61E-10	
195	13	Subsurface	Chromium	mg/kg	5.23E+01	6.49E-05	3.18E-05	4.36E-09	
195	13	Subsurface	Nickel	mg/kg	8.34E+01	1.04E-04	4.06E-05	6.96E-09	
195	13	Subsurface	Silver	mg/kg	8.71E+00	1.08E-05	4.23E-06	7.27E-10	
195	14	Subsurface	Arsenic	mg/kg	1.02E+01	1.27E-05	3.73E-06	8.53E-10	
195	14	Subsurface	Chromium	mg/kg	5.94E+01	7.38E-05	3.61E-05	4.96E-09	
195	14	Subsurface	Mercury	mg/kg	6.49E+00	8.06E-06	3.94E-06	1.61E-05	
195	14	Subsurface	Nickel	mg/kg	8.22E+01	1.02E-04	4.00E-05	6.86E-09	
195	14	Subsurface	Silver	mg/kg	8.87E+00	1.10E-05	4.31E-06	7.40E-10	
195	15	Subsurface	Arsenic	mg/kg	9.15E+00	1.14E-05	3.34E-06	7.63E-10	
195	15	Subsurface	Cesium-137	pCi/g	2.61E-01	5.79E+02		3.89E-02	8.82E-01
195	15	Subsurface	Chromium	mg/kg	5.34E+01	6.63E-05	3.25E-05	4.46E-09	
195	16	Subsurface	Cesium-137	pCi/g	2.94E-01	6.53E+02		4.39E-02	9.93E-01
195	16	Subsurface	Chromium	mg/kg	5.22E+01	6.48E-05	3.17E-05	4.36E-09	
195	16	Subsurface	Manganese	mg/kg	3.87E+02	4.80E-04	1.88E-04	3.23E-08	
195	16	Subsurface	Mercury	mg/kg	8.43E+00	1.05E-05	5.12E-06	2.10E-05	
195	16	Subsurface	Nickel	mg/kg	8.59E+01	1.07E-04	4.17E-05	7.16E-09	
195	17	Subsurface	Arsenic	mg/kg	9.36E+00	1.16E-05	3.41E-06	7.81E-10	
195	17	Subsurface	Chromium	mg/kg	6.77E+01	8.41E-05	4.12E-05	5.65E-09	
195	17	Subsurface	Manganese	mg/kg	5.02E+02	6.23E-04	2.44E-04	4.19E-08	
195	17	Subsurface	Mercury	mg/kg	7.24E+00	8.99E-06	4.40E-06	1.80E-05	
195	17	Subsurface	Nickel	mg/kg	7.09E+01	8.80E-05	3.44E-05	5.91E-09	
195	17	Subsurface	PCB, Total	mg/kg	7.40E-01	9.19E-07	1.26E-06	1.04E-07	
195	17	Subsurface	Silver	mg/kg	1.20E+01	1.49E-05	5.82E-06	9.99E-10	
195	17	Subsurface	Thallium	mg/kg	4.82E-01	5.98E-07	2.93E-07	4.02E-11	
195	17	Subsurface	Total PAH	mg/kg	2.05E-01	2.54E-07	3.24E-07	1.26E-09	
195	17	Subsurface	Uranium-235	pCi/g	9.72E-02	2.16E+02		1.45E-02	3.28E-01
195	17	Subsurface	Uranium-238	pCi/g	1.75E+00	3.89E+03		2.62E-01	5.92E+00
196	1	Subsurface	Aluminum	mg/kg	1.79E+04	2.22E-02	1.09E-02	1.49E-06	
196	1	Subsurface	Antimony	mg/kg	1.21E+02	1.50E-04	7.35E-05	1.01E-08	
196	1	Subsurface	Arsenic	mg/kg	1.05E+01	1.30E-05	3.83E-06	8.76E-10	
196	1	Subsurface	Barium	mg/kg	3.89E+02	4.83E-04	2.36E-04	3.24E-08	
196	1	Subsurface	Beryllium	mg/kg	1.13E+02	1.40E-04	9.61E-06	9.43E-09	
196	1	Subsurface	Cadmium	mg/kg	1.16E+02	1.44E-04	1.41E-06	9.68E-09	
196	1	Subsurface	Chromium	mg/kg	1.12E+02	1.39E-04	6.81E-05	9.34E-09	
196	1	Subsurface	Cobalt	mg/kg	1.12E+02	1.39E-04	6.81E-05	9.34E-09	
196	1	Subsurface	Iron	mg/kg	2.96E+04	3.67E-02	1.80E-02	2.47E-06	
196	1	Subsurface	Manganese	mg/kg	1.98E+03	2.46E-03	9.63E-04	1.65E-07	
196	1	Subsurface	Neptunium-237	pCi/g	3.11E-01	6.90E+02		4.64E-02	1.05E+00
196	1	Subsurface	Nickel	mg/kg	5.87E+02	7.29E-04	2.85E-04	4.90E-08	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
196	1	Subsurface	Silver	mg/kg	6.54E+01	8.12E-05	3.18E-05	5.46E-09	
196	1	Subsurface	Thallium	mg/kg	1.14E+02	1.42E-04	6.93E-05	9.51E-09	
196	1	Subsurface	Uranium	mg/kg	2.33E+01	2.89E-05	1.42E-05	1.94E-09	
196	1	Subsurface	Uranium-238	pCi/g	1.54E+00	3.42E+03		2.30E-01	5.20E+00
196	1	Subsurface	Vanadium	mg/kg	4.38E+01	5.44E-05	1.38E-05	3.65E-09	
196	1	Subsurface	Zinc	mg/kg	1.65E+03	2.05E-03	1.00E-03	1.38E-07	
196	2	Subsurface	Aluminum	mg/kg	1.69E+04	2.10E-02	1.03E-02	1.41E-06	
196	2	Subsurface	Antimony	mg/kg	6.22E+01	7.72E-05	3.78E-05	5.19E-09	
196	2	Subsurface	Arsenic	mg/kg	9.40E+00	1.17E-05	3.43E-06	7.84E-10	
196	2	Subsurface	Barium	mg/kg	2.02E+02	2.51E-04	1.23E-04	1.69E-08	
196	2	Subsurface	Cadmium	mg/kg	4.42E+00	5.49E-06	5.37E-08	3.69E-10	
196	2	Subsurface	Nickel	mg/kg	8.01E+01	9.94E-05	3.89E-05	6.68E-09	
196	2	Subsurface	PCB, Total	mg/kg	1.51E+00	1.87E-06	2.57E-06	2.12E-07	
196	2	Subsurface	Selenium	mg/kg	6.29E+01	7.81E-05	3.82E-05	5.25E-09	
196	2	Subsurface	Total PAH	mg/kg	9.04E+00	1.12E-05	1.43E-05	5.57E-08	
196	2	Subsurface	Uranium-238	pCi/g	2.21E+00	4.91E+03		3.30E-01	7.47E+00
200	1	Subsurface	Antimony	mg/kg	3.82E-01	4.74E-07	2.32E-07	3.19E-11	
200	1	Subsurface	Arsenic	mg/kg	9.73E+00	1.21E-05	3.55E-06	8.12E-10	
200	1	Subsurface	Cesium-137	pCi/g	4.68E-01	1.04E+03		6.98E-02	1.58E+00
200	1	Subsurface	Chromium	mg/kg	6.19E+01	7.68E-05	3.76E-05	5.16E-09	
200	1	Subsurface	Manganese	mg/kg	4.60E+02	5.70E-04	2.23E-04	3.83E-08	
200	1	Subsurface	Mercury	mg/kg	6.93E+00	8.60E-06	4.21E-06	1.72E-05	
200	1	Subsurface	Nickel	mg/kg	1.26E+02	1.56E-04	6.11E-05	1.05E-08	
200	1	Subsurface	PCB, Total	mg/kg	2.60E+00	3.23E-06	4.42E-06	3.66E-07	
200	1	Subsurface	Silver	mg/kg	9.47E+00	1.18E-05	4.60E-06	7.90E-10	
200	1	Subsurface	Total PAH	mg/kg	1.89E-02	2.35E-08	2.99E-08	1.17E-10	
200	1	Subsurface	Uranium	mg/kg	2.65E+01	3.29E-05	1.61E-05	2.21E-09	
200	1	Subsurface	Uranium-235	pCi/g	1.14E-01	2.53E+02		1.70E-02	3.85E-01
200	1	Subsurface	Uranium-238	pCi/g	2.79E+00	6.20E+03		4.17E-01	9.44E+00
204	1	Subsurface	Aluminum	mg/kg	1.48E+04	1.84E-02	8.99E-03	1.23E-06	
204	1	Subsurface	Arsenic	mg/kg	1.04E+01	1.29E-05	3.79E-06	8.68E-10	
204	1	Subsurface	Beryllium	mg/kg	1.36E+00	1.69E-06	1.16E-07	1.13E-10	
204	1	Subsurface	Cadmium	mg/kg	2.73E+00	3.39E-06	3.32E-08	2.28E-10	
204	1	Subsurface	Chromium	mg/kg	7.40E+01	9.19E-05	4.50E-05	6.17E-09	
204	1	Subsurface	Iron	mg/kg	4.19E+04	5.20E-02	2.55E-02	3.50E-06	
204	1	Subsurface	PCB, Total	mg/kg	2.53E+00	3.14E-06	4.30E-06	3.56E-07	
204	1	Subsurface	Uranium-235	pCi/g	1.80E-01	4.00E+02		2.69E-02	6.08E-01
204	1	Subsurface	Uranium-238	pCi/g	5.20E+00	1.15E+04		7.76E-01	1.76E+01
204	1	Subsurface	Vanadium	mg/kg	7.55E+01	9.37E-05	2.39E-05	6.30E-09	
204	2	Subsurface	Aluminum	mg/kg	1.37E+04	1.70E-02	8.33E-03	1.14E-06	
204	2	Subsurface	PCB, Total	mg/kg	1.70E-01	2.11E-07	2.89E-07	2.39E-08	
204	3	Subsurface	Uranium-238	pCi/g	2.50E+00	5.55E+03		3.73E-01	8.45E+00
204	4	Subsurface	Antimony	mg/kg	1.72E+01	2.13E-05	1.05E-05	1.43E-09	
204	4	Subsurface	Uranium-235	pCi/g	1.88E-01	4.17E+02		2.80E-02	6.35E-01
204	4	Subsurface	Uranium-238	pCi/g	9.72E+00	2.16E+04		1.45E+00	3.29E+01
204	18	Subsurface	Cesium-137	pCi/g	6.30E-01	1.40E+03		9.40E-02	2.13E+00
204	18	Subsurface	Uranium	mg/kg	1.60E+01	1.99E-05	9.72E-06	1.33E-09	
204	18	Subsurface	Uranium-235	pCi/g	1.25E-01	2.78E+02		1.86E-02	4.22E-01
204	18	Subsurface	Uranium-238	pCi/g	5.37E+00	1.19E+04		8.01E-01	1.81E+01
204	22	Subsurface	Uranium	mg/kg	3.71E+02	4.61E-04	2.25E-04	3.09E-08	
204	23	Subsurface	Americium-241	pCi/g	3.71E+00	8.23E+03		5.53E-01	1.25E+01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
204	23	Subsurface	Beryllium	mg/kg	1.33E+00	1.65E-06	1.13E-07	1.11E-10	
204	23	Subsurface	Cesium-137	pCi/g	1.17E+00	2.60E+03		1.75E-01	3.96E+00
204	23	Subsurface	Chromium	mg/kg	1.75E+02	2.17E-04	1.06E-04	1.46E-08	
204	23	Subsurface	Cobalt-60	pCi/g	1.23E-02	2.72E+01		1.83E-03	4.14E-02
204	23	Subsurface	PCB, Total	mg/kg	7.90E+01	9.81E-05	1.34E-04	1.11E-05	
204	23	Subsurface	Trichloroethene	mg/kg	7.30E-02	9.06E-08	2.22E-07	3.34E-06	
204	23	Subsurface	Uranium	mg/kg	1.31E+04	1.62E-02	7.94E-03	1.09E-06	
204	23	Subsurface	Uranium-234	pCi/g	4.45E+02	9.88E+05		6.64E+01	1.50E+03
204	23	Subsurface	Uranium-235	pCi/g	5.70E+01	1.27E+05		8.50E+00	1.93E+02
204	23	Subsurface	Uranium-238	pCi/g	4.39E+03	9.74E+06		6.54E+02	1.48E+04
211	1	Subsurface	Arsenic	mg/kg	1.00E+01	1.24E-05	3.65E-06	8.34E-10	
211	1	Subsurface	Barium	mg/kg	2.13E+02	2.64E-04	1.29E-04	1.78E-08	
211	1	Subsurface	Beryllium	mg/kg	8.50E-01	1.06E-06	7.23E-08	7.09E-11	
211	1	Subsurface	Chromium	mg/kg	4.84E+01	6.01E-05	2.94E-05	4.04E-09	
211	1	Subsurface	Cobalt	mg/kg	4.95E+01	6.14E-05	3.01E-05	4.13E-09	
211	1	Subsurface	Neptunium-237	pCi/g	1.56E-01	3.46E+02		2.33E-02	5.27E-01
211	1	Subsurface	Nickel	mg/kg	8.87E+01	1.10E-04	4.31E-05	7.40E-09	
211	1	Subsurface	PCB, Total	mg/kg	1.40E+02	1.74E-04	2.38E-04	1.97E-05	
211	1	Subsurface	Total PAH	mg/kg	1.04E-01	1.29E-07	1.64E-07	6.40E-10	
211	1	Subsurface	Uranium	mg/kg	4.85E+01	6.02E-05	2.95E-05	4.05E-09	
211	1	Subsurface	Uranium-234	pCi/g	8.06E+00	1.79E+04		1.20E+00	2.72E+01
211	1	Subsurface	Uranium-235	pCi/g	5.80E-01	1.29E+03		8.65E-02	1.96E+00
211	1	Subsurface	Uranium-238	pCi/g	1.59E+01	3.53E+04		2.37E+00	5.37E+01
212	1	Subsurface	Antimony	mg/kg	1.40E+00	1.74E-06	8.51E-07	1.17E-10	
212	1	Subsurface	Arsenic	mg/kg	1.44E+01	1.79E-05	5.26E-06	1.20E-09	
212	1	Subsurface	Barium	mg/kg	1.92E+02	2.38E-04	1.17E-04	1.60E-08	
212	1	Subsurface	Beryllium	mg/kg	8.90E-01	1.10E-06	7.57E-08	7.42E-11	
212	1	Subsurface	Cesium-137	pCi/g	6.01E-01	1.33E+03		8.97E-02	2.03E+00
212	1	Subsurface	Chromium	mg/kg	6.66E+01	8.27E-05	4.05E-05	5.56E-09	
212	1	Subsurface	Cobalt	mg/kg	1.76E+01	2.18E-05	1.07E-05	1.47E-09	
212	1	Subsurface	Cobalt-60	pCi/g	8.76E-03	1.94E+01		1.31E-03	2.96E-02
212	1	Subsurface	Iron	mg/kg	4.14E+04	5.14E-02	2.52E-02	3.45E-06	
212	1	Subsurface	Manganese	mg/kg	1.44E+03	1.79E-03	7.00E-04	1.20E-07	
212	1	Subsurface	Mercury	mg/kg	6.94E+00	8.61E-06	4.22E-06	1.73E-05	
212	1	Subsurface	Neptunium-237	pCi/g	4.00E+00	8.88E+03		5.97E-01	1.35E+01
212	1	Subsurface	Nickel	mg/kg	8.69E+01	1.08E-04	4.23E-05	7.25E-09	
212	1	Subsurface	PCB, Total	mg/kg	1.80E-01	2.23E-07	3.06E-07	2.53E-08	
212	1	Subsurface	Plutonium-239/240	pCi/g	6.71E+00	1.49E+04		1.00E+00	2.27E+01
212	1	Subsurface	Silver	mg/kg	1.55E+01	1.93E-05	7.55E-06	1.29E-09	
212	1	Subsurface	Thorium-230	pCi/g	2.60E+02	5.77E+05		3.88E+01	8.79E+02
212	1	Subsurface	Uranium	mg/kg	2.30E+01	2.85E-05	1.40E-05	1.92E-09	
212	1	Subsurface	Uranium-235	pCi/g	2.09E-01	4.64E+02		3.12E-02	7.06E-01
212	1	Subsurface	Uranium-238	pCi/g	3.17E+00	7.04E+03		4.73E-01	1.07E+01
212	1	Subsurface	Vanadium	mg/kg	5.33E+01	6.62E-05	1.68E-05	4.45E-09	
213	1	Subsurface	Antimony	mg/kg	8.50E-01	1.06E-06	5.17E-07	7.09E-11	
213	1	Subsurface	Arsenic	mg/kg	9.21E+00	1.14E-05	3.36E-06	7.68E-10	
213	1	Subsurface	Chromium	mg/kg	5.47E+01	6.78E-05	3.32E-05	4.56E-09	
213	1	Subsurface	Manganese	mg/kg	9.06E+02	1.12E-03	4.41E-04	7.56E-08	
213	1	Subsurface	Nickel	mg/kg	6.67E+01	8.28E-05	3.24E-05	5.57E-09	
213	1	Subsurface	PCB, Total	mg/kg	7.30E-02	9.06E-08	1.24E-07	1.03E-08	
213	1	Subsurface	Silver	mg/kg	1.32E+01	1.63E-05	6.40E-06	1.10E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
213	1	Subsurface	Total PAH	mg/kg	1.72E-01	2.13E-07	2.72E-07	1.06E-09	
213	1	Subsurface	Uranium-238	pCi/g	2.33E+00	5.17E+03		3.48E-01	7.87E+00
213	2	Subsurface	Chromium	mg/kg	6.77E+01	8.41E-05	4.12E-05	5.65E-09	
213	2	Subsurface	Manganese	mg/kg	2.10E+03	2.61E-03	1.02E-03	1.76E-07	
213	2	Subsurface	Nickel	mg/kg	9.10E+01	1.13E-04	4.42E-05	7.59E-09	
213	2	Subsurface	Silver	mg/kg	1.13E+01	1.40E-05	5.47E-06	9.39E-10	
214	1	Subsurface	Antimony	mg/kg	5.70E-01	7.08E-07	3.46E-07	4.75E-11	
214	1	Subsurface	Arsenic	mg/kg	1.15E+01	1.43E-05	4.20E-06	9.61E-10	
215	1	Subsurface	Antimony	mg/kg	6.80E-01	8.44E-07	4.13E-07	5.67E-11	
215	1	Subsurface	Arsenic	mg/kg	1.02E+01	1.26E-05	3.70E-06	8.48E-10	
215	1	Subsurface	Chromium	mg/kg	5.73E+01	7.11E-05	3.48E-05	4.78E-09	
215	1	Subsurface	Iron	mg/kg	3.87E+04	4.80E-02	2.35E-02	3.23E-06	
215	1	Subsurface	Nickel	mg/kg	7.32E+01	9.08E-05	3.56E-05	6.10E-09	
215	1	Subsurface	Silver	mg/kg	9.51E+00	1.18E-05	4.62E-06	7.93E-10	
215	1	Subsurface	Total PAH	mg/kg	5.00E-01	6.21E-07	7.90E-07	3.08E-09	
216	1	Subsurface	Arsenic	mg/kg	8.60E+00	1.07E-05	3.14E-06	7.17E-10	
216	1	Subsurface	Cesium-137	pCi/g	4.10E-01	9.10E+02		6.12E-02	1.39E+00
216	1	Subsurface	Total PAH	mg/kg	1.49E-01	1.85E-07	2.36E-07	9.21E-10	
216	1	Subsurface	Uranium-238	pCi/g	1.33E+00	2.95E+03		1.98E-01	4.49E+00
217	1	Subsurface	Arsenic	mg/kg	9.42E+00	1.17E-05	3.44E-06	7.86E-10	
217	1	Subsurface	Chromium	mg/kg	6.53E+01	8.11E-05	3.97E-05	5.45E-09	
217	1	Subsurface	Cobalt	mg/kg	1.64E+01	2.04E-05	9.97E-06	1.37E-09	
217	1	Subsurface	Manganese	mg/kg	9.97E+02	1.24E-03	4.85E-04	8.32E-08	
217	1	Subsurface	Mercury	mg/kg	7.37E+00	9.15E-06	4.48E-06	1.83E-05	
217	1	Subsurface	Nickel	mg/kg	8.71E+01	1.08E-04	4.23E-05	7.26E-09	
217	1	Subsurface	Silver	mg/kg	1.35E+01	1.67E-05	6.54E-06	1.12E-09	
217	1	Subsurface	Uranium-238	pCi/g	1.09E+00	2.43E+03		1.63E-01	3.70E+00
217	1	Subsurface	Vanadium	mg/kg	3.00E+01	3.72E-05	9.48E-06	2.50E-09	
217	2	Subsurface	Aluminum	mg/kg	1.02E+04	1.27E-02	6.22E-03	8.54E-07	
217	2	Subsurface	Antimony	mg/kg	3.10E+00	3.85E-06	1.88E-06	2.59E-10	
217	2	Subsurface	Arsenic	mg/kg	9.97E+00	1.24E-05	3.64E-06	8.32E-10	
217	2	Subsurface	Beryllium	mg/kg	5.85E-01	7.26E-07	4.98E-08	4.88E-11	
217	2	Subsurface	Chromium	mg/kg	6.61E+01	8.20E-05	4.01E-05	5.51E-09	
217	2	Subsurface	Cobalt	mg/kg	8.29E+01	1.03E-04	5.04E-05	6.92E-09	
217	2	Subsurface	Iron	mg/kg	3.04E+04	3.78E-02	1.85E-02	2.54E-06	
217	2	Subsurface	Manganese	mg/kg	9.50E+02	1.18E-03	4.62E-04	7.92E-08	
217	2	Subsurface	Mercury	mg/kg	9.20E+00	1.14E-05	5.59E-06	2.29E-05	
217	2	Subsurface	Nickel	mg/kg	7.88E+01	9.78E-05	3.83E-05	6.57E-09	
217	2	Subsurface	Silver	mg/kg	1.61E+01	2.00E-05	7.82E-06	1.34E-09	
217	2	Subsurface	Total PAH	mg/kg	4.06E-01	5.04E-07	6.41E-07	2.50E-09	
217	2	Subsurface	Vanadium	mg/kg	2.87E+01	3.56E-05	9.07E-06	2.39E-09	
219	1	Subsurface	Neptunium-237	pCi/g	3.31E-01	7.35E+02		4.94E-02	1.12E+00
219	1	Subsurface	Nickel	mg/kg	6.71E+01	8.33E-05	3.26E-05	5.60E-09	
219	1	Subsurface	Total PAH	mg/kg	7.50E-02	9.31E-08	1.19E-07	4.63E-10	
219	1	Subsurface	Uranium-235	pCi/g	1.92E-01	4.26E+02		2.86E-02	6.49E-01
219	1	Subsurface	Uranium-238	pCi/g	4.40E+00	9.77E+03		6.56E-01	1.49E+01
221	1	Subsurface	Aluminum	mg/kg	2.36E+04	2.93E-02	1.43E-02	1.97E-06	
221	1	Subsurface	Antimony	mg/kg	5.78E-01	7.17E-07	3.51E-07	4.82E-11	
221	1	Subsurface	Arsenic	mg/kg	1.24E+01	1.54E-05	4.51E-06	1.03E-09	
221	1	Subsurface	Barium	mg/kg	8.64E+02	1.07E-03	5.25E-04	7.21E-08	
221	1	Subsurface	Beryllium	mg/kg	1.55E+00	1.93E-06	1.32E-07	1.30E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
221	1	Subsurface	Chromium	mg/kg	6.57E+01	8.15E-05	3.99E-05	5.48E-09	
221	1	Subsurface	Cobalt	mg/kg	7.22E+01	8.96E-05	4.38E-05	6.02E-09	
221	1	Subsurface	Iron	mg/kg	3.86E+04	4.79E-02	2.34E-02	3.22E-06	
221	1	Subsurface	Manganese	mg/kg	4.39E+03	5.44E-03	2.13E-03	3.66E-07	
221	1	Subsurface	Mercury	mg/kg	1.23E+01	1.53E-05	7.47E-06	3.06E-05	
221	1	Subsurface	Nickel	mg/kg	9.46E+01	1.17E-04	4.60E-05	7.89E-09	
221	1	Subsurface	PCB, Total	mg/kg	5.00E-01	6.21E-07	8.51E-07	7.03E-08	
221	1	Subsurface	Silver	mg/kg	9.74E+00	1.21E-05	4.74E-06	8.12E-10	
221	1	Subsurface	Thallium	mg/kg	1.24E+00	1.53E-06	7.51E-07	1.03E-10	
221	1	Subsurface	Total PAH	mg/kg	1.02E+00	1.27E-06	1.62E-06	6.31E-09	
221	1	Subsurface	Uranium	mg/kg	1.46E+01	1.81E-05	8.88E-06	1.22E-09	
221	1	Subsurface	Uranium-238	pCi/g	1.93E+00	4.28E+03		2.88E-01	6.52E+00
221	1	Subsurface	Vanadium	mg/kg	5.36E+01	6.65E-05	1.69E-05	4.47E-09	
222	1	Subsurface	Aluminum	mg/kg	1.11E+04	1.37E-02	6.72E-03	9.23E-07	
222	1	Subsurface	Arsenic	mg/kg	1.02E+01	1.26E-05	3.71E-06	8.49E-10	
222	1	Subsurface	Cesium-137	pCi/g	2.99E-01	6.64E+02		4.46E-02	1.01E+00
222	1	Subsurface	Chromium	mg/kg	6.48E+01	8.04E-05	3.94E-05	5.40E-09	
222	1	Subsurface	Cobalt-60	pCi/g	6.54E-03	1.45E+01		9.76E-04	2.21E-02
222	1	Subsurface	Manganese	mg/kg	6.33E+02	7.85E-04	3.08E-04	5.28E-08	
222	1	Subsurface	Nickel	mg/kg	9.19E+01	1.14E-04	4.47E-05	7.67E-09	
222	1	Subsurface	PCB, Total	mg/kg	9.67E-01	1.20E-06	1.65E-06	1.36E-07	
222	1	Subsurface	Total PAH	mg/kg	1.77E-01	2.20E-07	2.80E-07	1.09E-09	
222	1	Subsurface	Uranium	mg/kg	2.77E+01	3.44E-05	1.69E-05	2.31E-09	
222	1	Subsurface	Uranium-234	pCi/g	7.04E+00	1.56E+04		1.05E+00	2.38E+01
222	1	Subsurface	Uranium-235	pCi/g	7.10E-01	1.58E+03		1.06E-01	2.40E+00
222	1	Subsurface	Uranium-238	pCi/g	1.54E+01	3.42E+04		2.30E+00	5.20E+01
224	1	Subsurface	Arsenic	mg/kg	1.20E+01	1.48E-05	4.36E-06	9.97E-10	
224	1	Subsurface	Cesium-137	pCi/g	3.70E-01	8.21E+02		5.52E-02	1.25E+00
224	1	Subsurface	Chromium	mg/kg	6.50E+01	8.07E-05	3.95E-05	5.42E-09	
224	1	Subsurface	Manganese	mg/kg	1.94E+03	2.41E-03	9.44E-04	1.62E-07	
224	1	Subsurface	Mercury	mg/kg	6.89E+00	8.55E-06	4.19E-06	1.71E-05	
224	1	Subsurface	Nickel	mg/kg	1.08E+02	1.33E-04	5.23E-05	8.97E-09	
224	1	Subsurface	PCB, Total	mg/kg	4.75E+02	5.90E-04	8.08E-04	6.68E-05	
224	1	Subsurface	Total PAH	mg/kg	4.53E+01	5.62E-05	7.15E-05	2.79E-07	
224	1	Subsurface	Uranium	mg/kg	4.27E+01	5.30E-05	2.59E-05	3.56E-09	
224	1	Subsurface	Uranium-235	pCi/g	2.50E-01	5.55E+02		3.73E-02	8.45E-01
224	1	Subsurface	Uranium-238	pCi/g	2.64E+01	5.86E+04		3.94E+00	8.92E+01
225	1	Subsurface	Arsenic	mg/kg	8.10E+00	1.01E-05	2.95E-06	6.76E-10	
225	1	Subsurface	Cesium-137	pCi/g	4.17E-01	9.26E+02		6.22E-02	1.41E+00
225	1	Subsurface	Manganese	mg/kg	8.55E+02	1.06E-03	4.16E-04	7.13E-08	
225	1	Subsurface	Total PAH	mg/kg	7.79E-02	9.66E-08	1.23E-07	4.80E-10	
225	1	Subsurface	Uranium-238	pCi/g	2.04E+00	4.53E+03		3.04E-01	6.89E+00
226	1	Subsurface	Americium-241	pCi/g	1.43E+00	3.18E+03		2.14E-01	4.84E+00
226	1	Subsurface	Antimony	mg/kg	6.60E-01	8.19E-07	4.01E-07	5.51E-11	
226	1	Subsurface	Arsenic	mg/kg	7.94E+00	9.86E-06	2.90E-06	6.62E-10	
226	1	Subsurface	Beryllium	mg/kg	5.44E-01	6.75E-07	4.63E-08	4.54E-11	
226	1	Subsurface	Cesium-137	pCi/g	2.33E+00	5.17E+03		3.47E-01	7.87E+00
226	1	Subsurface	Chromium	mg/kg	6.39E+01	7.94E-05	3.89E-05	5.33E-09	
226	1	Subsurface	Cobalt	mg/kg	7.70E+00	9.56E-06	4.68E-06	6.42E-10	
226	1	Subsurface	Cobalt-60	pCi/g	3.14E-03	6.97E+00		4.68E-04	1.06E-02
226	1	Subsurface	Manganese	mg/kg	1.05E+03	1.30E-03	5.09E-04	8.74E-08	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
226	1	Subsurface	Mercury	mg/kg	9.74E+00	1.21E-05	5.92E-06	2.42E-05	
226	1	Subsurface	Neptunium-237	pCi/g	1.41E+02	3.14E+05		2.11E+01	4.77E+02
226	1	Subsurface	Nickel	mg/kg	2.18E+02	2.71E-04	1.06E-04	1.82E-08	
226	1	Subsurface	PCB, Total	mg/kg	4.13E+00	5.12E-06	7.02E-06	5.80E-07	
226	1	Subsurface	Plutonium-238	pCi/g	1.88E+00	4.18E+03		2.81E-01	6.36E+00
226	1	Subsurface	Plutonium-239/240	pCi/g	5.75E+00	1.28E+04		8.57E-01	1.94E+01
226	1	Subsurface	Technetium-99	pCi/g	4.41E+01	9.79E+04		6.58E+00	1.49E+02
226	1	Subsurface	Thorium-230	pCi/g	4.21E+01	9.35E+04		6.28E+00	1.42E+02
226	1	Subsurface	Total PAH	mg/kg	9.19E-02	1.14E-07	1.45E-07	5.67E-10	
226	1	Subsurface	Uranium	mg/kg	4.38E+02	5.44E-04	2.66E-04	3.65E-08	
226	1	Subsurface	Uranium-234	pCi/g	2.44E+01	5.41E+04		3.64E+00	8.23E+01
226	1	Subsurface	Uranium-235	pCi/g	1.26E+00	2.79E+03		1.88E-01	4.25E+00
226	1	Subsurface	Uranium-238	pCi/g	2.48E+01	5.50E+04		3.69E+00	8.37E+01
227	1	Subsurface	Arsenic	mg/kg	8.46E+00	1.05E-05	3.08E-06	7.06E-10	
227	1	Subsurface	Beryllium	mg/kg	5.50E-01	6.83E-07	4.68E-08	4.59E-11	
227	1	Subsurface	Cesium-137	pCi/g	1.67E-01	3.71E+02		2.49E-02	5.64E-01
227	1	Subsurface	Chromium	mg/kg	5.34E+01	6.63E-05	3.25E-05	4.46E-09	
227	1	Subsurface	Cobalt-60	pCi/g	1.53E-02	3.40E+01		2.28E-03	5.17E-02
227	1	Subsurface	Neptunium-237	pCi/g	7.95E-01	1.76E+03		1.19E-01	2.69E+00
227	1	Subsurface	Nickel	mg/kg	1.99E+02	2.47E-04	9.67E-05	1.66E-08	
227	1	Subsurface	PCB, Total	mg/kg	3.94E+00	4.89E-06	6.70E-06	5.54E-07	
227	1	Subsurface	Technetium-99	pCi/g	4.18E+01	9.28E+04		6.23E+00	1.41E+02
227	1	Subsurface	Thallium	mg/kg	5.10E-01	6.33E-07	3.10E-07	4.25E-11	
227	1	Subsurface	Total PAH	mg/kg	3.38E-01	4.19E-07	5.34E-07	2.08E-09	
227	1	Subsurface	Uranium	mg/kg	1.02E+02	1.26E-04	6.17E-05	8.48E-09	
227	1	Subsurface	Uranium-234	pCi/g	1.40E+01	3.11E+04		2.09E+00	4.73E+01
227	1	Subsurface	Uranium-235	pCi/g	1.35E+00	2.99E+03		2.01E-01	4.55E+00
227	1	Subsurface	Uranium-238	pCi/g	4.18E+01	9.28E+04		6.24E+00	1.41E+02
227	2	Subsurface	Arsenic	mg/kg	8.34E+00	1.04E-05	3.04E-06	6.96E-10	
227	2	Subsurface	Barium	mg/kg	1.35E+02	1.68E-04	8.21E-05	1.13E-08	
227	2	Subsurface	Beryllium	mg/kg	5.63E-01	6.99E-07	4.79E-08	4.70E-11	
227	2	Subsurface	Chromium	mg/kg	4.55E+01	5.64E-05	2.76E-05	3.79E-09	
227	2	Subsurface	Cobalt	mg/kg	1.06E+01	1.32E-05	6.45E-06	8.85E-10	
227	2	Subsurface	Cobalt-60	pCi/g	1.37E-02	3.04E+01		2.04E-03	4.63E-02
227	2	Subsurface	Manganese	mg/kg	7.38E+02	9.16E-04	3.59E-04	6.15E-08	
227	2	Subsurface	Mercury	mg/kg	8.32E+00	1.03E-05	5.06E-06	2.07E-05	
227	2	Subsurface	Neptunium-237	pCi/g	3.83E-02	8.50E+01		5.71E-03	1.29E-01
227	2	Subsurface	Nickel	mg/kg	1.23E+02	1.53E-04	5.98E-05	1.03E-08	
227	2	Subsurface	PCB, Total	mg/kg	4.75E+00	5.89E-06	8.08E-06	6.68E-07	
227	2	Subsurface	Silver	mg/kg	8.52E+00	1.06E-05	4.14E-06	7.11E-10	
227	2	Subsurface	Total PAH	mg/kg	1.16E-01	1.44E-07	1.83E-07	7.14E-10	
227	2	Subsurface	Uranium	mg/kg	1.51E+01	1.87E-05	9.15E-06	1.26E-09	
227	2	Subsurface	Uranium-238	pCi/g	1.57E+00	3.49E+03		2.35E-01	5.32E+00
227	2	Subsurface	Vanadium	mg/kg	2.46E+01	3.05E-05	7.76E-06	2.05E-09	
228	1	Subsurface	Antimony	mg/kg	6.30E-01	7.82E-07	3.83E-07	5.26E-11	
228	1	Subsurface	Arsenic	mg/kg	2.79E+01	3.46E-05	1.02E-05	2.33E-09	
228	1	Subsurface	Beryllium	mg/kg	7.50E-01	9.31E-07	6.38E-08	6.26E-11	
228	1	Subsurface	Cadmium	mg/kg	3.90E+00	4.84E-06	4.74E-08	3.25E-10	
228	1	Subsurface	Chromium	mg/kg	1.89E+02	2.34E-04	1.15E-04	1.58E-08	
228	1	Subsurface	Cobalt-60	pCi/g	1.29E-02	2.86E+01		1.92E-03	4.36E-02
228	1	Subsurface	Iron	mg/kg	3.77E+04	4.68E-02	2.29E-02	3.15E-06	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
228	1	Subsurface	Manganese	mg/kg	9.97E+02	1.24E-03	4.85E-04	8.32E-08	
228	1	Subsurface	Mercury	mg/kg	9.37E+00	1.16E-05	5.69E-06	2.33E-05	
228	1	Subsurface	Neptunium-237	pCi/g	8.00E-01	1.78E+03		1.19E-01	2.70E+00
228	1	Subsurface	Nickel	mg/kg	7.92E+01	9.83E-05	3.85E-05	6.60E-09	
228	1	Subsurface	Silver	mg/kg	1.16E+01	1.44E-05	5.65E-06	9.70E-10	
228	1	Subsurface	Total PAH	mg/kg	6.69E-02	8.30E-08	1.06E-07	4.12E-10	
228	1	Subsurface	Uranium	mg/kg	1.51E+01	1.88E-05	9.19E-06	1.26E-09	
228	1	Subsurface	Uranium-235	pCi/g	1.78E-01	3.95E+02		2.66E-02	6.01E-01
228	1	Subsurface	Uranium-238	pCi/g	3.77E+00	8.37E+03		5.62E-01	1.27E+01
229	1	Subsurface	Arsenic	mg/kg	1.17E+01	1.45E-05	4.25E-06	9.73E-10	
229	1	Subsurface	Chromium	mg/kg	4.76E+01	5.91E-05	2.89E-05	3.97E-09	
229	1	Subsurface	Mercury	mg/kg	9.27E+00	1.15E-05	5.63E-06	2.31E-05	
229	1	Subsurface	Nickel	mg/kg	9.14E+01	1.13E-04	4.44E-05	7.62E-09	
229	1	Subsurface	Total PAH	mg/kg	1.57E-01	1.95E-07	2.48E-07	9.67E-10	
229	1	Subsurface	Uranium	mg/kg	1.56E+02	1.93E-04	9.47E-05	1.30E-08	
229	1	Subsurface	Uranium-238	pCi/g	2.86E+00	6.35E+03		4.27E-01	9.66E+00
229	2	Subsurface	Arsenic	mg/kg	2.12E+01	2.63E-05	7.73E-06	1.77E-09	
229	2	Subsurface	Beryllium	mg/kg	7.90E-01	9.81E-07	6.72E-08	6.59E-11	
229	2	Subsurface	Cesium-137	pCi/g	3.21E-01	7.13E+02		4.79E-02	1.08E+00
229	2	Subsurface	Chromium	mg/kg	4.80E+01	5.96E-05	2.92E-05	4.00E-09	
229	2	Subsurface	Mercury	mg/kg	7.30E+00	9.06E-06	4.44E-06	1.82E-05	
229	2	Subsurface	Neptunium-237	pCi/g	2.87E-01	6.37E+02		4.28E-02	9.70E-01
229	2	Subsurface	Nickel	mg/kg	9.93E+01	1.23E-04	4.83E-05	8.28E-09	
229	2	Subsurface	Total PAH	mg/kg	1.69E+00	2.10E-06	2.68E-06	1.05E-08	
229	2	Subsurface	Uranium	mg/kg	7.45E+01	9.25E-05	4.53E-05	6.21E-09	
229	2	Subsurface	Uranium-234	pCi/g	1.22E+01	2.71E+04		1.82E+00	4.12E+01
229	2	Subsurface	Uranium-235	pCi/g	8.40E-01	1.86E+03		1.25E-01	2.84E+00
229	2	Subsurface	Uranium-238	pCi/g	2.49E+01	5.53E+04		3.71E+00	8.41E+01
483	1	Subsurface	Arsenic	mg/kg	1.25E+01	1.55E-05	4.54E-06	1.04E-09	
483	1	Subsurface	Nickel	mg/kg	1.17E+02	1.45E-04	5.67E-05	9.72E-09	
483	1	Subsurface	Silver	mg/kg	1.12E+01	1.39E-05	5.44E-06	9.33E-10	
483	1	Subsurface	Thallium	mg/kg	4.00E-01	4.97E-07	2.43E-07	3.34E-11	
483	1	Subsurface	Total PAH	mg/kg	2.39E-02	2.97E-08	3.78E-08	1.47E-10	
486	1	Subsurface	Cesium-137	pCi/g	1.71E+00	3.80E+03		2.55E-01	5.78E+00
487	1	Subsurface	Cesium-137	pCi/g	1.38E+00	3.06E+03		2.06E-01	4.66E+00
488	1	Subsurface	Arsenic	mg/kg	8.89E+00	1.10E-05	3.24E-06	7.42E-10	
488	1	Subsurface	Cesium-137	pCi/g	5.20E-01	1.15E+03		7.76E-02	1.76E+00
488	1	Subsurface	Chromium	mg/kg	5.31E+01	6.58E-05	3.22E-05	4.43E-09	
488	1	Subsurface	PCB, Total	mg/kg	1.03E+01	1.28E-05	1.75E-05	1.45E-06	
488	1	Subsurface	Total PAH	mg/kg	2.50E-01	3.10E-07	3.95E-07	1.54E-09	
488	1	Subsurface	Uranium	mg/kg	1.48E+01	1.84E-05	8.99E-06	1.23E-09	
488	1	Subsurface	Uranium-235	pCi/g	1.49E-01	3.31E+02		2.22E-02	5.03E-01
488	1	Subsurface	Uranium-238	pCi/g	4.54E+00	1.01E+04		6.77E-01	1.53E+01
489	1	Subsurface	Arsenic	mg/kg	1.00E+01	1.24E-05	3.65E-06	8.34E-10	
489	1	Subsurface	Cadmium	mg/kg	8.70E-01	1.08E-06	1.06E-08	7.26E-11	
489	1	Subsurface	Nickel	mg/kg	7.88E+01	9.78E-05	3.83E-05	6.58E-09	
489	1	Subsurface	Total PAH	mg/kg	8.22E-02	1.02E-07	1.30E-07	5.07E-10	
489	1	Subsurface	Uranium-238	pCi/g	1.47E+00	3.26E+03		2.19E-01	4.97E+00
492	1	Subsurface	Arsenic	mg/kg	1.47E+01	1.82E-05	5.36E-06	1.23E-09	
492	1	Subsurface	Beryllium	mg/kg	1.04E+01	1.29E-05	8.85E-07	8.68E-10	
492	1	Subsurface	Cadmium	mg/kg	3.14E+00	3.90E-06	3.82E-08	2.62E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
492	1	Subsurface	Cesium-137	pCi/g	3.46E-01	7.68E+02		5.16E-02	1.17E+00
492	1	Subsurface	Chromium	mg/kg	1.04E+03	1.29E-03	6.32E-04	8.68E-08	
492	1	Subsurface	Cobalt-60	pCi/g	9.63E-03	2.14E+01		1.44E-03	3.25E-02
492	1	Subsurface	Neptunium-237	pCi/g	2.09E-01	4.64E+02		3.12E-02	7.06E-01
492	1	Subsurface	PCB, Total	mg/kg	4.41E+01	5.47E-05	7.50E-05	6.20E-06	
492	1	Subsurface	Uranium	mg/kg	1.77E+03	2.20E-03	1.08E-03	1.48E-07	
492	1	Subsurface	Uranium-234	pCi/g	5.39E+01	1.20E+05		8.04E+00	1.82E+02
492	1	Subsurface	Uranium-235	pCi/g	5.72E+00	1.27E+04		8.53E-01	1.93E+01
492	1	Subsurface	Uranium-238	pCi/g	3.83E+02	8.50E+05		5.71E+01	1.29E+03
492	1	Subsurface	Vanadium	mg/kg	4.32E+01	5.36E-05	1.37E-05	3.60E-09	
493	1	Subsurface	Aluminum	mg/kg	1.44E+04	1.79E-02	8.75E-03	1.20E-06	
493	1	Subsurface	Arsenic	mg/kg	1.18E+01	1.46E-05	4.30E-06	9.84E-10	
493	1	Subsurface	Barium	mg/kg	4.04E+02	5.01E-04	2.46E-04	3.37E-08	
493	1	Subsurface	Beryllium	mg/kg	9.91E-01	1.23E-06	8.43E-08	8.27E-11	
493	1	Subsurface	Cesium-137	pCi/g	2.92E-01	6.48E+02		4.36E-02	9.87E-01
493	1	Subsurface	Chromium	mg/kg	6.61E+01	8.20E-05	4.02E-05	5.51E-09	
493	1	Subsurface	Cobalt	mg/kg	3.79E+01	4.70E-05	2.30E-05	3.16E-09	
493	1	Subsurface	Cobalt-60	pCi/g	1.36E-02	3.02E+01		2.03E-03	4.60E-02
493	1	Subsurface	Manganese	mg/kg	3.55E+03	4.41E-03	1.73E-03	2.96E-07	
493	1	Subsurface	Mercury	mg/kg	2.60E-01	3.23E-07	1.58E-07	6.47E-07	
493	1	Subsurface	Neptunium-237	pCi/g	1.22E-01	2.71E+02		1.82E-02	4.12E-01
493	1	Subsurface	Nickel	mg/kg	2.13E+02	2.64E-04	1.04E-04	1.78E-08	
493	1	Subsurface	PCB, Total	mg/kg	2.60E-01	3.23E-07	4.42E-07	3.66E-08	
493	1	Subsurface	Thallium	mg/kg	6.90E-01	8.56E-07	4.19E-07	5.76E-11	
493	1	Subsurface	Total PAH	mg/kg	5.00E-01	6.21E-07	7.90E-07	3.08E-09	
493	1	Subsurface	Uranium-235	pCi/g	1.65E-01	3.66E+02		2.46E-02	5.58E-01
493	1	Subsurface	Uranium-238	pCi/g	5.50E+00	1.22E+04		8.21E-01	1.86E+01
493	1	Subsurface	Vanadium	mg/kg	4.05E+01	5.03E-05	1.28E-05	3.38E-09	
517	1	Subsurface	Aluminum	mg/kg	1.20E+04	1.49E-02	7.29E-03	1.00E-06	
517	1	Subsurface	Beryllium	mg/kg	7.39E-01	9.17E-07	6.29E-08	6.16E-11	
517	1	Subsurface	Chromium	mg/kg	4.91E+01	6.09E-05	2.98E-05	4.10E-09	
517	1	Subsurface	Cobalt-60	pCi/g	6.39E-03	1.42E+01		9.53E-04	2.16E-02
517	1	Subsurface	Neptunium-237	pCi/g	1.07E+00	2.38E+03		1.60E-01	3.62E+00
517	1	Subsurface	Nickel	mg/kg	1.72E+02	2.13E-04	8.36E-05	1.43E-08	
517	1	Subsurface	PCB, Total	mg/kg	5.00E-01	6.21E-07	8.51E-07	7.03E-08	
517	1	Subsurface	Thallium	mg/kg	4.20E-01	5.21E-07	2.55E-07	3.50E-11	
517	1	Subsurface	Uranium-235	pCi/g	1.60E-01	3.55E+02		2.39E-02	5.41E-01
517	1	Subsurface	Uranium-238	pCi/g	3.89E+00	8.64E+03		5.80E-01	1.31E+01
518	1	Subsurface	Arsenic	mg/kg	6.45E+00	8.00E-06	2.35E-06	5.38E-10	
518	1	Subsurface	Carbazole	mg/kg	1.17E+01	1.45E-05	1.42E-05	4.53E-07	
518	1	Subsurface	Cobalt	mg/kg	6.80E+00	8.45E-06	4.13E-06	5.68E-10	
518	1	Subsurface	Nickel	mg/kg	1.29E+01	1.60E-05	6.25E-06	1.07E-09	
518	1	Subsurface	PCB, Total	mg/kg	6.30E-01	7.82E-07	1.07E-06	8.86E-08	
518	1	Subsurface	Pyrene	mg/kg	3.94E+01	4.89E-05	6.23E-05	2.16E-06	
518	1	Subsurface	Total PAH	mg/kg	4.64E+00	5.76E-06	7.33E-06	2.86E-08	
518	1	Subsurface	Uranium	mg/kg	2.17E+02	2.69E-04	1.32E-04	1.81E-08	
518	1	Subsurface	Uranium-235	pCi/g	6.74E-02	1.50E+02		1.01E-02	2.28E-01
518	1	Subsurface	Uranium-238	pCi/g	1.51E+00	3.36E+03		2.26E-01	5.12E+00
520	1	Subsurface	Aluminum	mg/kg	9.61E+03	1.19E-02	5.84E-03	8.02E-07	
520	1	Subsurface	Arsenic	mg/kg	8.83E+00	1.10E-05	3.22E-06	7.37E-10	
520	1	Subsurface	Barium	mg/kg	1.57E+02	1.95E-04	9.55E-05	1.31E-08	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
520	1	Subsurface	Beryllium	mg/kg	5.77E-01	7.16E-07	4.91E-08	4.81E-11	
520	1	Subsurface	Cesium-137	pCi/g	8.53E-01	1.89E+03		1.27E-01	2.88E+00
520	1	Subsurface	Chromium	mg/kg	5.95E+01	7.39E-05	3.62E-05	4.97E-09	
520	1	Subsurface	Cobalt	mg/kg	1.08E+01	1.34E-05	6.54E-06	8.98E-10	
520	1	Subsurface	Iron	mg/kg	1.70E+04	2.11E-02	1.03E-02	1.42E-06	
520	1	Subsurface	Manganese	mg/kg	7.31E+02	9.07E-04	3.55E-04	6.10E-08	
520	1	Subsurface	Mercury	mg/kg	1.07E+01	1.33E-05	6.49E-06	2.66E-05	
520	1	Subsurface	Neptunium-237	pCi/g	5.37E-01	1.19E+03		8.01E-02	1.81E+00
520	1	Subsurface	Nickel	mg/kg	2.56E+02	3.18E-04	1.24E-04	2.14E-08	
520	1	Subsurface	Silver	mg/kg	1.40E+01	1.73E-05	6.78E-06	1.16E-09	
520	1	Subsurface	Thorium-230	pCi/g	1.02E+01	2.27E+04		1.52E+00	3.45E+01
520	1	Subsurface	Total PAH	mg/kg	3.18E-02	3.95E-08	5.03E-08	1.96E-10	
520	1	Subsurface	Uranium	mg/kg	1.75E+01	2.17E-05	1.06E-05	1.46E-09	
520	1	Subsurface	Uranium-235	pCi/g	1.21E-01	2.69E+02		1.81E-02	4.09E-01
520	1	Subsurface	Uranium-238	pCi/g	3.69E+00	8.19E+03		5.50E-01	1.25E+01
520	2	Subsurface	Arsenic	mg/kg	9.87E+00	1.23E-05	3.60E-06	8.23E-10	
520	2	Subsurface	Chromium	mg/kg	6.67E+01	8.27E-05	4.05E-05	5.56E-09	
520	2	Subsurface	Manganese	mg/kg	6.49E+02	8.05E-04	3.15E-04	5.41E-08	
520	2	Subsurface	Mercury	mg/kg	1.19E+01	1.47E-05	7.22E-06	2.95E-05	
520	2	Subsurface	Neptunium-237	pCi/g	5.90E-02	1.31E+02		8.80E-03	1.99E-01
520	2	Subsurface	Nickel	mg/kg	3.10E+02	3.85E-04	1.51E-04	2.59E-08	
520	2	Subsurface	Total PAH	mg/kg	2.53E-01	3.14E-07	4.00E-07	1.56E-09	
520	2	Subsurface	Uranium	mg/kg	3.96E+01	4.91E-05	2.40E-05	3.30E-09	
520	2	Subsurface	Uranium-238	pCi/g	1.58E+00	3.50E+03		2.35E-01	5.32E+00
520	3	Subsurface	Arsenic	mg/kg	1.04E+01	1.30E-05	3.81E-06	8.71E-10	
520	3	Subsurface	Chromium	mg/kg	6.57E+01	8.16E-05	3.99E-05	5.48E-09	
520	3	Subsurface	Copper	mg/kg	1.18E+02	1.46E-04	7.16E-05	9.83E-09	
520	3	Subsurface	Mercury	mg/kg	6.65E+00	8.25E-06	4.04E-06	1.65E-05	
520	3	Subsurface	Nickel	mg/kg	3.31E+02	4.11E-04	1.61E-04	2.76E-08	
520	3	Subsurface	Silver	mg/kg	1.26E+01	1.57E-05	6.14E-06	1.05E-09	
520	3	Subsurface	Total PAH	mg/kg	7.42E-02	9.21E-08	1.17E-07	4.58E-10	
520	3	Subsurface	Uranium	mg/kg	1.85E+01	2.30E-05	1.13E-05	1.55E-09	
520	3	Subsurface	Uranium-238	pCi/g	1.34E+00	2.97E+03		2.00E-01	4.52E+00
520	4	Subsurface	Arsenic	mg/kg	9.35E+00	1.16E-05	3.41E-06	7.80E-10	
520	4	Subsurface	Beryllium	mg/kg	7.27E-01	9.02E-07	6.19E-08	6.06E-11	
520	4	Subsurface	Cadmium	mg/kg	1.17E+00	1.46E-06	1.43E-08	9.78E-11	
520	4	Subsurface	Chromium	mg/kg	6.60E+01	8.19E-05	4.01E-05	5.51E-09	
520	4	Subsurface	Copper	mg/kg	1.10E+02	1.36E-04	6.67E-05	9.16E-09	
520	4	Subsurface	Iron	mg/kg	1.65E+04	2.05E-02	1.00E-02	1.38E-06	
520	4	Subsurface	Manganese	mg/kg	5.73E+02	7.11E-04	2.79E-04	4.78E-08	
520	4	Subsurface	Mercury	mg/kg	9.69E+00	1.20E-05	5.89E-06	2.41E-05	
520	4	Subsurface	Neptunium-237	pCi/g	7.40E-01	1.64E+03		1.10E-01	2.50E+00
520	4	Subsurface	Nickel	mg/kg	2.82E+02	3.50E-04	1.37E-04	2.35E-08	
520	4	Subsurface	Silver	mg/kg	1.23E+01	1.52E-05	5.96E-06	1.02E-09	
520	4	Subsurface	Total PAH	mg/kg	5.52E-01	6.86E-07	8.73E-07	3.41E-09	
520	4	Subsurface	Uranium	mg/kg	2.27E+01	2.81E-05	1.38E-05	1.89E-09	
520	4	Subsurface	Uranium-235	pCi/g	2.42E-01	5.37E+02		3.61E-02	8.18E-01
520	4	Subsurface	Uranium-238	pCi/g	6.26E+00	1.39E+04		9.34E-01	2.12E+01
520	4	Subsurface	Vanadium	mg/kg	4.43E+01	5.50E-05	1.40E-05	3.69E-09	
520	5	Subsurface	Antimony	mg/kg	6.62E-01	8.22E-07	4.02E-07	5.52E-11	
520	5	Subsurface	Arsenic	mg/kg	9.97E+00	1.24E-05	3.63E-06	8.31E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
520	5	Subsurface	Barium	mg/kg	1.38E+02	1.71E-04	8.37E-05	1.15E-08	
520	5	Subsurface	Beryllium	mg/kg	7.01E-01	8.70E-07	5.96E-08	5.85E-11	
520	5	Subsurface	Chromium	mg/kg	4.94E+01	6.13E-05	3.00E-05	4.12E-09	
520	5	Subsurface	Iron	mg/kg	1.70E+04	2.11E-02	1.03E-02	1.42E-06	
520	5	Subsurface	Manganese	mg/kg	5.45E+02	6.76E-04	2.65E-04	4.54E-08	
520	5	Subsurface	Mercury	mg/kg	6.94E+00	8.61E-06	4.22E-06	1.73E-05	
520	5	Subsurface	Neptunium-237	pCi/g	1.55E-01	3.44E+02		2.31E-02	5.24E-01
520	5	Subsurface	Nickel	mg/kg	1.12E+02	1.39E-04	5.45E-05	9.36E-09	
520	5	Subsurface	Total PAH	mg/kg	3.87E-01	4.81E-07	6.12E-07	2.39E-09	
520	5	Subsurface	Uranium-238	pCi/g	1.45E+00	3.22E+03		2.16E-01	4.90E+00
520	5	Subsurface	Vanadium	mg/kg	3.01E+01	3.73E-05	9.51E-06	2.51E-09	
531	1	Subsurface	Antimony	mg/kg	1.00E+00	1.24E-06	6.08E-07	8.34E-11	
531	1	Subsurface	Arsenic	mg/kg	4.68E+01	5.81E-05	1.71E-05	3.91E-09	
531	1	Subsurface	Cadmium	mg/kg	3.10E+00	3.85E-06	3.77E-08	2.59E-10	
531	1	Subsurface	Chromium	mg/kg	5.33E+01	6.62E-05	3.24E-05	4.45E-09	
531	1	Subsurface	Iron	mg/kg	5.68E+04	7.06E-02	3.45E-02	4.74E-06	
531	1	Subsurface	Manganese	mg/kg	8.65E+02	1.07E-03	4.21E-04	7.22E-08	
531	1	Subsurface	Nickel	mg/kg	1.62E+02	2.01E-04	7.89E-05	1.35E-08	
531	1	Subsurface	Total PAH	mg/kg	5.34E-02	6.63E-08	8.43E-08	3.29E-10	
531	1	Subsurface	Uranium	mg/kg	2.41E+01	2.99E-05	1.46E-05	2.01E-09	
531	1	Subsurface	Uranium-235	pCi/g	1.38E-01	3.06E+02		2.06E-02	4.66E-01
531	1	Subsurface	Uranium-238	pCi/g	3.48E+00	7.73E+03		5.19E-01	1.18E+01
531	1	Subsurface	Zinc	mg/kg	2.45E+03	3.04E-03	1.49E-03	2.05E-07	
541	1	Subsurface	Aluminum	mg/kg	1.49E+04	1.85E-02	9.06E-03	1.24E-06	
541	1	Subsurface	Americium-241	pCi/g	7.53E+00	1.67E+04		1.12E+00	2.55E+01
541	1	Subsurface	Arsenic	mg/kg	9.08E+00	1.13E-05	3.31E-06	7.57E-10	
541	1	Subsurface	Barium	mg/kg	1.36E+02	1.69E-04	8.26E-05	1.13E-08	
541	1	Subsurface	Beryllium	mg/kg	7.40E-01	9.19E-07	6.30E-08	6.17E-11	
541	1	Subsurface	Cadmium	mg/kg	1.60E+00	1.98E-06	1.94E-08	1.33E-10	
541	1	Subsurface	Cesium-137	pCi/g	9.72E-01	2.16E+03		1.45E-01	3.28E+00
541	1	Subsurface	Chromium	mg/kg	9.44E+02	1.17E-03	5.74E-04	7.88E-08	
541	1	Subsurface	Cobalt-60	pCi/g	1.01E-02	2.24E+01		1.51E-03	3.41E-02
541	1	Subsurface	Iron	mg/kg	1.88E+04	2.34E-02	1.14E-02	1.57E-06	
541	1	Subsurface	Manganese	mg/kg	4.97E+02	6.17E-04	2.41E-04	4.14E-08	
541	1	Subsurface	Mercury	mg/kg	2.02E-01	2.51E-07	1.23E-07	5.02E-07	
541	1	Subsurface	Naphthalene	mg/kg	6.53E-01	8.11E-07	1.98E-06	1.82E-06	
541	1	Subsurface	Neptunium-237	pCi/g	5.69E-02	1.26E+02		8.49E-03	1.92E-01
541	1	Subsurface	Nickel	mg/kg	1.58E+01	1.97E-05	7.70E-06	1.32E-09	
541	1	Subsurface	PCB, Total	mg/kg	6.18E+01	7.67E-05	1.05E-04	8.69E-06	
541	1	Subsurface	Total PAH	mg/kg	3.15E+00	3.91E-06	4.98E-06	1.94E-08	
541	1	Subsurface	Uranium	mg/kg	7.39E+03	9.18E-03	4.49E-03	6.17E-07	
541	1	Subsurface	Uranium-234	pCi/g	1.44E+02	3.20E+05		2.15E+01	4.88E+02
541	1	Subsurface	Uranium-235	pCi/g	2.26E+01	5.01E+04		3.37E+00	7.62E+01
541	1	Subsurface	Uranium-238	pCi/g	1.11E+03	2.47E+06		1.66E+02	3.75E+03
541	1	Subsurface	Vanadium	mg/kg	3.54E+01	4.39E-05	1.12E-05	2.95E-09	
561	1	Subsurface	Aluminum	mg/kg	1.76E+04	2.18E-02	1.07E-02	1.47E-06	
561	1	Subsurface	Antimony	mg/kg	8.95E-01	1.11E-06	5.44E-07	7.47E-11	
561	1	Subsurface	Arsenic	mg/kg	1.63E+01	2.03E-05	5.96E-06	1.36E-09	
561	1	Subsurface	Barium	mg/kg	1.44E+02	1.78E-04	8.73E-05	1.20E-08	
561	1	Subsurface	Beryllium	mg/kg	6.74E-01	8.37E-07	5.73E-08	5.62E-11	
561	1	Subsurface	Cesium-137	pCi/g	2.53E-01	5.62E+02		3.77E-02	8.55E-01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
561	1	Subsurface	Chromium	mg/kg	9.00E+01	1.12E-04	5.47E-05	7.51E-09	
561	1	Subsurface	Cobalt	mg/kg	1.10E+01	1.37E-05	6.70E-06	9.20E-10	
561	1	Subsurface	Cobalt-60	pCi/g	6.98E-02	1.55E+02		1.04E-02	2.36E-01
561	1	Subsurface	Iron	mg/kg	2.07E+04	2.57E-02	1.26E-02	1.73E-06	
561	1	Subsurface	Manganese	mg/kg	1.81E+03	2.24E-03	8.79E-04	1.51E-07	
561	1	Subsurface	Neptunium-237	pCi/g	2.61E-02	5.79E+01		3.89E-03	8.82E-02
561	1	Subsurface	Nickel	mg/kg	1.49E+01	1.85E-05	7.26E-06	1.25E-09	
561	1	Subsurface	PCB, Total	mg/kg	1.01E+00	1.25E-06	1.72E-06	1.42E-07	
561	1	Subsurface	Thallium	mg/kg	3.27E-01	4.06E-07	1.99E-07	2.73E-11	
561	1	Subsurface	Total PAH	mg/kg	7.79E-01	9.67E-07	1.23E-06	4.80E-09	
561	1	Subsurface	Uranium	mg/kg	2.65E+02	3.28E-04	1.61E-04	2.21E-08	
561	1	Subsurface	Uranium-234	pCi/g	8.48E+00	1.88E+04		1.26E+00	2.86E+01
561	1	Subsurface	Uranium-235	pCi/g	1.43E+00	3.17E+03		2.13E-01	4.82E+00
561	1	Subsurface	Uranium-238	pCi/g	1.12E+02	2.48E+05		1.67E+01	3.77E+02
561	1	Subsurface	Vanadium	mg/kg	3.94E+01	4.89E-05	1.24E-05	3.29E-09	
561	2	Subsurface	Aluminum	mg/kg	8.86E+03	1.10E-02	5.39E-03	7.39E-07	
561	2	Subsurface	Antimony	mg/kg	5.09E+00	6.32E-06	3.09E-06	4.24E-10	
561	2	Subsurface	Arsenic	mg/kg	1.27E+01	1.57E-05	4.62E-06	1.06E-09	
561	2	Subsurface	Beryllium	mg/kg	6.21E-01	7.71E-07	5.28E-08	5.18E-11	
561	2	Subsurface	Cadmium	mg/kg	3.95E-01	4.90E-07	4.80E-09	3.30E-11	
561	2	Subsurface	Cesium-137	pCi/g	4.02E-01	8.92E+02		6.00E-02	1.36E+00
561	2	Subsurface	Chromium	mg/kg	3.07E+02	3.81E-04	1.86E-04	2.56E-08	
561	2	Subsurface	Cobalt	mg/kg	1.09E+01	1.35E-05	6.62E-06	9.09E-10	
561	2	Subsurface	Cobalt-60	pCi/g	3.02E-02	6.70E+01		4.51E-03	1.02E-01
561	2	Subsurface	Manganese	mg/kg	1.07E+03	1.32E-03	5.18E-04	8.88E-08	
561	2	Subsurface	Neptunium-237	pCi/g	4.76E-02	1.06E+02		7.10E-03	1.61E-01
561	2	Subsurface	PCB, Total	mg/kg	1.66E+01	2.06E-05	2.83E-05	2.34E-06	
561	2	Subsurface	Thallium	mg/kg	3.83E-01	4.75E-07	2.33E-07	3.19E-11	
561	2	Subsurface	Total PAH	mg/kg	4.60E-01	5.71E-07	7.27E-07	2.84E-09	
561	2	Subsurface	Uranium	mg/kg	1.41E+03	1.74E-03	8.54E-04	1.17E-07	
561	2	Subsurface	Uranium-234	pCi/g	3.92E+01	8.70E+04		5.85E+00	1.32E+02
561	2	Subsurface	Uranium-235	pCi/g	6.79E+00	1.51E+04		1.01E+00	2.30E+01
561	2	Subsurface	Uranium-238	pCi/g	3.86E+02	8.57E+05		5.76E+01	1.30E+03
561	2	Subsurface	Vanadium	mg/kg	3.32E+01	4.12E-05	1.05E-05	2.77E-09	
562	1	Subsurface	Arsenic	mg/kg	1.18E+01	1.46E-05	4.30E-06	9.84E-10	
562	1	Subsurface	Cesium-137	pCi/g	4.52E-01	1.00E+03		6.74E-02	1.53E+00
562	1	Subsurface	Chromium	mg/kg	3.15E+02	3.91E-04	1.91E-04	2.63E-08	
562	1	Subsurface	PCB, Total	mg/kg	2.01E+00	2.49E-06	3.42E-06	2.83E-07	
562	1	Subsurface	Uranium	mg/kg	2.27E+02	2.81E-04	1.38E-04	1.89E-08	
562	1	Subsurface	Uranium-235	pCi/g	5.91E-01	1.31E+03		8.82E-02	2.00E+00
562	1	Subsurface	Uranium-238	pCi/g	4.42E+01	9.81E+04		6.59E+00	1.49E+02
562	2	Subsurface	Cesium-137	pCi/g	3.58E-01	7.95E+02		5.34E-02	1.21E+00
562	2	Subsurface	PCB, Total	mg/kg	1.58E+00	1.96E-06	2.69E-06	2.22E-07	
562	2	Subsurface	Uranium-234	pCi/g	5.34E+01	1.19E+05		7.97E+00	1.80E+02
562	2	Subsurface	Uranium-235	pCi/g	8.96E+00	1.99E+04		1.34E+00	3.03E+01
562	2	Subsurface	Uranium-238	pCi/g	5.81E+02	1.29E+06		8.67E+01	1.96E+03
562	3	Subsurface	PCB, Total	mg/kg	2.40E-01	2.98E-07	4.08E-07	3.38E-08	
562	3	Subsurface	Total PAH	mg/kg	2.20E-01	2.73E-07	3.48E-07	1.36E-09	
562	3	Subsurface	Uranium	mg/kg	5.89E+01	7.31E-05	3.58E-05	4.91E-09	
562	3	Subsurface	Uranium-235	pCi/g	1.63E-01	3.62E+02		2.43E-02	5.51E-01
562	3	Subsurface	Uranium-238	pCi/g	1.09E+01	2.42E+04		1.63E+00	3.68E+01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.12. Cancerous CDIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
562	4	Subsurface	Cesium-137	pCi/g	4.91E-01	1.09E+03		7.33E-02	1.66E+00
562	4	Subsurface	Chromium	mg/kg	4.67E+01	5.79E-05	2.84E-05	3.89E-09	
562	4	Subsurface	Uranium	mg/kg	2.10E+01	2.61E-05	1.28E-05	1.75E-09	
562	4	Subsurface	Uranium-238	pCi/g	2.42E+00	5.37E+03		3.61E-01	8.18E+00
562	5	Subsurface	Cesium-137	pCi/g	3.80E-01	8.44E+02		5.67E-02	1.28E+00
562	5	Subsurface	Chromium	mg/kg	1.53E+02	1.90E-04	9.30E-05	1.28E-08	
562	5	Subsurface	PCB, Total	mg/kg	9.50E-01	1.18E-06	1.62E-06	1.34E-07	
562	5	Subsurface	Total PAH	mg/kg	7.05E-02	8.75E-08	1.11E-07	4.35E-10	
562	5	Subsurface	Uranium	mg/kg	2.08E+02	2.58E-04	1.26E-04	1.74E-08	
562	5	Subsurface	Uranium-234	pCi/g	8.57E+00	1.90E+04		1.28E+00	2.90E+01
562	5	Subsurface	Uranium-235	pCi/g	9.50E-01	2.11E+03		1.42E-01	3.21E+00
562	5	Subsurface	Uranium-238	pCi/g	6.24E+01	1.39E+05		9.31E+00	2.11E+02
563	1	Subsurface	Cadmium	mg/kg	8.96E-01	1.11E-06	1.09E-08	7.47E-11	
563	1	Subsurface	Cesium-137	pCi/g	2.88E-01	6.39E+02		4.30E-02	9.73E-01
563	1	Subsurface	Chromium	mg/kg	3.34E+02	4.14E-04	2.03E-04	2.79E-08	
563	1	Subsurface	Neptunium-237	pCi/g	1.20E-01	2.66E+02		1.79E-02	4.05E-01
563	1	Subsurface	PCB, Total	mg/kg	3.54E+00	4.39E-06	6.02E-06	4.98E-07	
563	1	Subsurface	Uranium	mg/kg	1.51E+01	1.87E-05	9.17E-06	1.26E-09	
563	1	Subsurface	Uranium-238	pCi/g	2.96E+00	6.57E+03		4.42E-01	1.00E+01
563	2	Subsurface	Cesium-137	pCi/g	6.47E-01	1.44E+03		9.65E-02	2.19E+00
563	2	Subsurface	Uranium-238	pCi/g	1.49E+00	3.31E+03		2.22E-01	5.03E+00
564	1	Subsurface	Aluminum	mg/kg	1.27E+04	1.58E-02	7.72E-03	1.06E-06	
564	1	Subsurface	Arsenic	mg/kg	4.30E+01	5.34E-05	1.57E-05	3.59E-09	
564	1	Subsurface	Beryllium	mg/kg	2.12E+00	2.63E-06	1.80E-07	1.77E-10	
564	1	Subsurface	Cadmium	mg/kg	1.96E+00	2.43E-06	2.38E-08	1.63E-10	
564	1	Subsurface	Cesium-137	pCi/g	6.20E-01	1.38E+03		9.25E-02	2.09E+00
564	1	Subsurface	Chromium	mg/kg	8.32E+01	1.03E-04	5.06E-05	6.94E-09	
564	1	Subsurface	Iron	mg/kg	3.66E+04	4.54E-02	2.22E-02	3.05E-06	
564	1	Subsurface	Mercury	mg/kg	2.30E-01	2.85E-07	1.40E-07	5.72E-07	
564	1	Subsurface	Nickel	mg/kg	2.24E+01	2.78E-05	1.09E-05	1.87E-09	
564	1	Subsurface	PCB, Total	mg/kg	1.93E+00	2.40E-06	3.28E-06	2.71E-07	
564	1	Subsurface	Thallium	mg/kg	2.36E+00	2.93E-06	1.43E-06	1.97E-10	
564	1	Subsurface	Thorium-230	pCi/g	5.01E+00	1.11E+04		7.47E-01	1.69E+01
564	1	Subsurface	Uranium	mg/kg	5.83E+01	7.24E-05	3.54E-05	4.86E-09	
564	1	Subsurface	Uranium-234	pCi/g	6.93E+00	1.54E+04		1.03E+00	2.34E+01
564	1	Subsurface	Uranium-235	pCi/g	3.87E-01	8.59E+02		5.77E-02	1.31E+00
564	1	Subsurface	Uranium-238	pCi/g	8.54E+00	1.90E+04		1.27E+00	2.89E+01
564	1	Subsurface	Vanadium	mg/kg	8.06E+01	1.00E-04	2.55E-05	6.72E-09	
565	1	Subsurface	Cesium-137	pCi/g	4.00E-01	8.88E+02		5.97E-02	1.35E+00
567	1	Subsurface	Aluminum	mg/kg	1.29E+04	1.60E-02	7.84E-03	1.08E-06	
567	1	Subsurface	Manganese	mg/kg	1.32E+03	1.64E-03	6.42E-04	1.10E-07	
567	3	Subsurface	Chromium	mg/kg	5.21E+01	6.47E-05	3.17E-05	4.35E-09	
567	3	Subsurface	Uranium-238	pCi/g	1.72E+00	3.82E+03		2.57E-01	5.81E+00
567	4	Subsurface	Aluminum	mg/kg	1.25E+04	1.55E-02	7.61E-03	1.04E-06	
567	4	Subsurface	Arsenic	mg/kg	1.09E+01	1.35E-05	3.97E-06	9.08E-10	
567	4	Subsurface	Uranium-238	pCi/g	1.08E+00	2.40E+03		1.61E-01	3.66E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
1	1	Surface	Beryllium	mg/kg	3.89E+00	1.35E-05	9.28E-07	9.10E-10
1	1	Surface	Cadmium	mg/kg	1.10E+00	3.82E-06	3.74E-08	2.57E-10
1	1	Surface	Cesium-137	pCi/g	5.91E-01	2.05E-06		1.38E-10
1	1	Surface	Chromium	mg/kg	1.28E+01	4.46E-05	2.18E-05	2.99E-09
1	1	Surface	Neptunium-237	pCi/g	4.02E-01	1.40E-06		9.39E-11
1	1	Surface	PCB, Total	mg/kg	1.76E-01	6.12E-07	8.39E-07	6.93E-08
1	1	Surface	Plutonium-239/240	pCi/g	6.14E+00	2.13E-05		1.43E-09
1	1	Surface	Thorium-230	pCi/g	4.40E+01	1.53E-04		1.03E-08
1	1	Surface	Uranium-235	pCi/g	1.06E-01	3.68E-07		2.48E-11
1	1	Surface	Uranium-238	pCi/g	1.97E+00	6.86E-06		4.61E-10
1	2	Surface	Beryllium	mg/kg	8.23E+00	2.86E-05	1.96E-06	1.92E-09
1	2	Surface	Cadmium	mg/kg	6.46E+00	2.25E-05	2.20E-07	1.51E-09
1	2	Surface	Chromium	mg/kg	2.01E+02	6.99E-04	3.42E-04	4.70E-08
1	2	Surface	Copper	mg/kg	1.81E+02	6.29E-04	3.08E-04	4.23E-08
1	2	Surface	Mercury	mg/kg	5.94E+00	2.06E-05	1.01E-05	4.13E-05
1	2	Surface	Nickel	mg/kg	5.75E+01	2.00E-04	7.82E-05	1.34E-08
1	2	Surface	PCB, Total	mg/kg	3.22E+01	1.12E-04	1.54E-04	1.27E-05
1	2	Surface	Silver	mg/kg	3.31E+01	1.15E-04	4.51E-05	7.74E-09
1	2	Surface	Thallium	mg/kg	3.70E-01	1.29E-06	6.30E-07	8.64E-11
1	2	Surface	Vanadium	mg/kg	3.49E+01	1.21E-04	3.08E-05	8.14E-09
1	3	Surface	Chromium	mg/kg	1.45E+01	5.03E-05	2.46E-05	3.38E-09
1	3	Surface	PCB, Total	mg/kg	2.17E-01	7.54E-07	1.03E-06	8.54E-08
1	3	Surface	Uranium-238	pCi/g	1.73E+00	6.01E-06		4.04E-10
1	4	Surface	Beryllium	mg/kg	7.25E-01	2.52E-06	1.73E-07	1.69E-10
1	4	Surface	Chromium	mg/kg	9.30E+01	3.23E-04	1.58E-04	2.17E-08
1	4	Surface	Cobalt-60	pCi/g	2.20E-02	7.65E-08		5.14E-12
1	4	Surface	Nickel	mg/kg	4.69E+01	1.63E-04	6.38E-05	1.09E-08
1	4	Surface	PCB, Total	mg/kg	1.30E-01	4.52E-07	6.19E-07	5.12E-08
1	4	Surface	Thorium-230	pCi/g	5.03E+00	1.75E-05		1.17E-09
1	5	Surface	Beryllium	mg/kg	8.30E+00	2.88E-05	1.98E-06	1.94E-09
1	5	Surface	Cadmium	mg/kg	1.20E+00	4.17E-06	4.08E-08	2.80E-10
1	5	Surface	Nickel	mg/kg	4.07E+01	1.41E-04	5.54E-05	9.51E-09
1	5	Surface	PCB, Total	mg/kg	2.70E-01	9.38E-07	1.29E-06	1.06E-07
1	5	Surface	Total PAH	mg/kg	9.83E-02	3.42E-07	4.35E-07	1.70E-09
12	1	Surface	Aluminum	mg/kg	8.19E+03	2.85E-02	1.39E-02	1.91E-06
12	1	Surface	Antimony	mg/kg	5.04E-01	1.75E-06	8.58E-07	1.18E-10
12	1	Surface	Arsenic	mg/kg	1.34E+01	4.65E-05	1.37E-05	3.13E-09
12	1	Surface	Barium	mg/kg	1.04E+02	3.60E-04	1.76E-04	2.42E-08
12	1	Surface	Beryllium	mg/kg	6.72E+00	2.34E-05	1.60E-06	1.57E-09
12	1	Surface	Cadmium	mg/kg	1.02E+00	3.55E-06	3.47E-08	2.38E-10
12	1	Surface	Chromium	mg/kg	6.33E+01	2.20E-04	1.08E-04	1.48E-08
12	1	Surface	Cobalt	mg/kg	9.16E+00	3.18E-05	1.56E-05	2.14E-09
12	1	Surface	Iron	mg/kg	3.01E+04	1.04E-01	5.11E-02	7.02E-06
12	1	Surface	Manganese	mg/kg	1.01E+03	3.52E-03	1.38E-03	2.37E-07
12	1	Surface	Mercury	mg/kg	8.80E+00	3.06E-05	1.50E-05	6.13E-05

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
12	1	Surface	Molybdenum	mg/kg	1.74E+01	6.05E-05	2.96E-05	4.07E-09
12	1	Surface	Nickel	mg/kg	7.74E+01	2.69E-04	1.05E-04	1.81E-08
12	1	Surface	PCB, Total	mg/kg	3.90E-01	1.36E-06	1.86E-06	1.54E-07
12	1	Surface	Silver	mg/kg	1.10E+01	3.83E-05	1.50E-05	2.57E-09
12	1	Surface	Thallium	mg/kg	1.03E+00	3.58E-06	1.75E-06	2.41E-10
12	1	Surface	Total PAH	mg/kg	1.70E-01	5.91E-07	7.52E-07	2.94E-09
12	1	Surface	Uranium	mg/kg	3.76E+02	1.31E-03	6.39E-04	8.78E-08
12	1	Surface	Uranium-234	pCi/g	1.50E+01	5.22E-05		3.51E-09
12	1	Surface	Uranium-235	pCi/g	1.53E+00	5.30E-06		3.56E-10
12	1	Surface	Uranium-238	pCi/g	6.68E+01	2.32E-04		1.56E-08
12	1	Surface	Vanadium	mg/kg	2.80E+01	9.74E-05	2.48E-05	6.55E-09
13	1	Surface	PCB, Total	mg/kg	7.00E-01	2.43E-06	3.34E-06	2.76E-07
13	4	Surface	Uranium-238	pCi/g	1.32E+00	4.59E-06		3.08E-10
13	5	Surface	Aluminum	mg/kg	1.13E+04	3.91E-02	1.92E-02	2.63E-06
13	5	Surface	Antimony	mg/kg	8.20E-01	2.85E-06	1.40E-06	1.92E-10
13	5	Surface	Cadmium	mg/kg	1.20E+00	4.17E-06	4.08E-08	2.80E-10
13	5	Surface	Chromium	mg/kg	1.51E+01	5.25E-05	2.57E-05	3.53E-09
13	5	Surface	Nickel	mg/kg	1.17E+02	4.05E-04	1.59E-04	2.72E-08
13	5	Surface	PCB, Total	mg/kg	1.05E+00	3.65E-06	5.00E-06	4.13E-07
13	5	Surface	Total PAH	mg/kg	6.65E-02	2.31E-07	2.94E-07	1.15E-09
13	5	Surface	Uranium	mg/kg	1.19E+02	4.14E-04	2.03E-04	2.78E-08
13	6	Surface	Uranium-238	pCi/g	1.32E+00	4.57E-06		3.07E-10
13	9	Surface	Neptunium-237	pCi/g	8.90E-01	3.09E-06		2.08E-10
13	9	Surface	Uranium	mg/kg	1.82E+01	6.33E-05	3.10E-05	4.25E-09
13	9	Surface	Uranium-235	pCi/g	3.11E-01	1.08E-06		7.26E-11
13	9	Surface	Uranium-238	pCi/g	6.08E+00	2.11E-05		1.42E-09
13	11	Surface	Cobalt-60	pCi/g	1.30E-02	4.52E-08		3.04E-12
14	1	Surface	Americium-241	pCi/g	1.27E+00	4.40E-06		2.96E-10
14	1	Surface	Arsenic	mg/kg	1.10E+01	3.82E-05	1.12E-05	2.56E-09
14	1	Surface	Chromium	mg/kg	6.36E+01	2.21E-04	1.08E-04	1.49E-08
14	1	Surface	Iron	mg/kg	1.89E+04	6.56E-02	3.21E-02	4.41E-06
14	1	Surface	Neptunium-237	pCi/g	2.14E-01	7.44E-07		5.00E-11
14	1	Surface	Nickel	mg/kg	1.40E+02	4.86E-04	1.90E-04	3.26E-08
14	1	Surface	PCB, Total	mg/kg	5.00E-01	1.74E-06	2.38E-06	1.97E-07
14	1	Surface	Silver	mg/kg	1.67E+01	5.80E-05	2.27E-05	3.90E-09
14	1	Surface	Technetium-99	pCi/g	4.06E+02	1.41E-03		9.48E-08
14	1	Surface	Uranium	mg/kg	7.21E+01	2.51E-04	1.23E-04	1.68E-08
14	1	Surface	Uranium-238	pCi/g	1.69E+00	5.87E-06		3.95E-10
14	2	Surface	Antimony	mg/kg	3.70E+00	1.29E-05	6.30E-06	8.64E-10
14	2	Surface	Arsenic	mg/kg	1.45E+01	5.05E-05	1.48E-05	3.39E-09
14	2	Surface	Beryllium	mg/kg	7.10E-01	2.47E-06	1.69E-07	1.66E-10
14	2	Surface	Chromium	mg/kg	6.65E+01	2.31E-04	1.13E-04	1.55E-08
14	2	Surface	Copper	mg/kg	1.76E+02	6.13E-04	3.00E-04	4.12E-08
14	2	Surface	Iron	mg/kg	3.72E+04	1.29E-01	6.33E-02	8.69E-06
14	2	Surface	Manganese	mg/kg	1.44E+03	5.01E-03	1.96E-03	3.37E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	2	Surface	Mercury	mg/kg	2.67E-01	9.28E-07	4.54E-07	1.86E-06
14	2	Surface	Neptunium-237	pCi/g	7.70E-01	2.68E-06		1.80E-10
14	2	Surface	Nickel	mg/kg	6.78E+02	2.36E-03	9.23E-04	1.58E-07
14	2	Surface	PCB, Total	mg/kg	3.90E-01	1.36E-06	1.86E-06	1.54E-07
14	2	Surface	Thorium-230	pCi/g	5.98E+00	2.08E-05		1.40E-09
14	2	Surface	Total PAH	mg/kg	3.38E-01	1.18E-06	1.50E-06	5.84E-09
14	2	Surface	Uranium	mg/kg	2.93E+02	1.02E-03	4.99E-04	6.85E-08
14	2	Surface	Uranium-234	pCi/g	3.24E+01	1.13E-04		7.57E-09
14	2	Surface	Uranium-235	pCi/g	2.00E+00	6.95E-06		4.67E-10
14	2	Surface	Uranium-238	pCi/g	5.61E+01	1.95E-04		1.31E-08
14	3	Surface	Arsenic	mg/kg	1.30E+01	4.51E-05	1.32E-05	3.03E-09
14	3	Surface	Chromium	mg/kg	7.01E+01	2.44E-04	1.19E-04	1.64E-08
14	3	Surface	Copper	mg/kg	1.29E+02	4.49E-04	2.20E-04	3.02E-08
14	3	Surface	Iron	mg/kg	3.48E+04	1.21E-01	5.93E-02	8.13E-06
14	3	Surface	Manganese	mg/kg	1.06E+03	3.67E-03	1.44E-03	2.47E-07
14	3	Surface	Mercury	mg/kg	7.48E+00	2.60E-05	1.27E-05	5.21E-05
14	3	Surface	Molybdenum	mg/kg	2.21E+01	7.67E-05	3.76E-05	5.15E-09
14	3	Surface	Nickel	mg/kg	5.76E+02	2.00E-03	7.85E-04	1.35E-07
14	3	Surface	PCB, Total	mg/kg	8.65E+00	3.00E-05	4.12E-05	3.40E-06
14	3	Surface	Uranium	mg/kg	2.18E+02	7.57E-04	3.70E-04	5.08E-08
14	3	Surface	Uranium-238	pCi/g	1.50E+00	5.21E-06		3.50E-10
14	4	Surface	Antimony	mg/kg	4.30E+00	1.49E-05	7.32E-06	1.00E-09
14	4	Surface	Arsenic	mg/kg	1.33E+01	4.62E-05	1.36E-05	3.10E-09
14	4	Surface	Chromium	mg/kg	7.20E+01	2.50E-04	1.23E-04	1.68E-08
14	4	Surface	Copper	mg/kg	3.54E+02	1.23E-03	6.02E-04	8.26E-08
14	4	Surface	Iron	mg/kg	3.88E+04	1.35E-01	6.61E-02	9.07E-06
14	4	Surface	Mercury	mg/kg	4.87E-01	1.69E-06	8.29E-07	3.39E-06
14	4	Surface	Neptunium-237	pCi/g	2.68E+00	9.31E-06		6.26E-10
14	4	Surface	Nickel	mg/kg	7.31E+02	2.54E-03	9.94E-04	1.71E-07
14	4	Surface	PCB, Total	mg/kg	6.61E+00	2.30E-05	3.15E-05	2.60E-06
14	4	Surface	Silver	mg/kg	1.17E+01	4.07E-05	1.59E-05	2.73E-09
14	4	Surface	Thorium-230	pCi/g	8.33E+00	2.90E-05		1.95E-09
14	4	Surface	Total PAH	mg/kg	2.51E-01	8.72E-07	1.11E-06	4.33E-09
14	4	Surface	Uranium	mg/kg	3.72E+02	1.29E-03	6.33E-04	8.68E-08
14	4	Surface	Uranium-234	pCi/g	1.13E+02	3.93E-04		2.64E-08
14	4	Surface	Uranium-235	pCi/g	8.00E+00	2.78E-05		1.87E-09
14	4	Surface	Uranium-238	pCi/g	1.69E+02	5.87E-04		3.95E-08
14	5	Surface	Antimony	mg/kg	2.30E+00	7.99E-06	3.91E-06	5.37E-10
14	5	Surface	Arsenic	mg/kg	1.31E+01	4.55E-05	1.34E-05	3.06E-09
14	5	Surface	Cadmium	mg/kg	3.90E+00	1.36E-05	1.33E-07	9.11E-10
14	5	Surface	Chromium	mg/kg	4.70E+01	1.63E-04	7.99E-05	1.10E-08
14	5	Surface	Cobalt	mg/kg	1.40E+01	4.87E-05	2.38E-05	3.27E-09
14	5	Surface	Copper	mg/kg	1.34E+02	4.64E-04	2.27E-04	3.12E-08
14	5	Surface	Iron	mg/kg	3.92E+04	1.36E-01	6.67E-02	9.16E-06
14	5	Surface	Manganese	mg/kg	8.28E+02	2.88E-03	1.13E-03	1.93E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	5	Surface	Mercury	mg/kg	1.09E+01	3.80E-05	1.86E-05	7.62E-05
14	5	Surface	Neptunium-237	pCi/g	1.74E+00	6.05E-06		4.06E-10
14	5	Surface	Nickel	mg/kg	4.61E+02	1.60E-03	6.28E-04	1.08E-07
14	5	Surface	PCB, Total	mg/kg	1.00E+00	3.48E-06	4.76E-06	3.94E-07
14	5	Surface	Silver	mg/kg	1.29E+01	4.47E-05	1.75E-05	3.01E-09
14	5	Surface	Technetium-99	pCi/g	1.01E+02	3.51E-04		2.36E-08
14	5	Surface	Thallium	mg/kg	4.10E-01	1.42E-06	6.98E-07	9.58E-11
14	5	Surface	Thorium-230	pCi/g	1.39E+01	4.83E-05		3.25E-09
14	5	Surface	Total PAH	mg/kg	1.21E-01	4.20E-07	5.35E-07	2.09E-09
14	5	Surface	Uranium	mg/kg	2.62E+02	9.11E-04	4.46E-04	6.12E-08
14	5	Surface	Uranium-234	pCi/g	5.22E+01	1.81E-04		1.22E-08
14	5	Surface	Uranium-235	pCi/g	3.33E+00	1.16E-05		7.78E-10
14	5	Surface	Uranium-238	pCi/g	9.42E+01	3.27E-04		2.20E-08
14	6	Surface	Antimony	mg/kg	2.70E+00	9.38E-06	4.59E-06	6.31E-10
14	6	Surface	Cadmium	mg/kg	8.40E-01	2.92E-06	2.86E-08	1.96E-10
14	6	Surface	Chromium	mg/kg	4.46E+02	1.55E-03	7.59E-04	1.04E-07
14	6	Surface	Copper	mg/kg	1.22E+02	4.25E-04	2.08E-04	2.86E-08
14	6	Surface	Mercury	mg/kg	3.47E-01	1.21E-06	5.90E-07	2.42E-06
14	6	Surface	Neptunium-237	pCi/g	2.65E+00	9.21E-06		6.19E-10
14	6	Surface	Nickel	mg/kg	9.63E+02	3.35E-03	1.31E-03	2.25E-07
14	6	Surface	PCB, Total	mg/kg	5.00E+00	1.74E-05	2.38E-05	1.97E-06
14	6	Surface	Silver	mg/kg	1.19E+01	4.13E-05	1.62E-05	2.77E-09
14	6	Surface	Uranium	mg/kg	5.79E+02	2.01E-03	9.85E-04	1.35E-07
14	6	Surface	Uranium-234	pCi/g	3.41E+01	1.19E-04		7.96E-09
14	6	Surface	Uranium-235	pCi/g	2.27E+00	7.89E-06		5.30E-10
14	6	Surface	Uranium-238	pCi/g	5.08E+01	1.77E-04		1.19E-08
14	7	Surface	Antimony	mg/kg	7.50E-01	2.61E-06	1.28E-06	1.75E-10
14	7	Surface	Arsenic	mg/kg	1.13E+01	3.93E-05	1.15E-05	2.64E-09
14	7	Surface	Cadmium	mg/kg	2.70E+00	9.38E-06	9.19E-08	6.31E-10
14	7	Surface	Chromium	mg/kg	6.46E+01	2.24E-04	1.10E-04	1.51E-08
14	7	Surface	Mercury	mg/kg	7.82E+00	2.72E-05	1.33E-05	5.44E-05
14	7	Surface	Neptunium-237	pCi/g	1.49E+00	5.18E-06		3.48E-10
14	7	Surface	Nickel	mg/kg	1.22E+03	4.25E-03	1.66E-03	2.86E-07
14	7	Surface	PCB, Total	mg/kg	7.60E+00	2.64E-05	3.62E-05	2.99E-06
14	7	Surface	Total PAH	mg/kg	6.31E-02	2.19E-07	2.79E-07	1.09E-09
14	7	Surface	Uranium	mg/kg	3.33E+02	1.16E-03	5.66E-04	7.78E-08
14	7	Surface	Uranium-234	pCi/g	1.28E+01	4.45E-05		2.99E-09
14	7	Surface	Uranium-235	pCi/g	9.60E-01	3.34E-06		2.24E-10
14	7	Surface	Uranium-238	pCi/g	2.13E+01	7.40E-05		4.98E-09
14	8	Surface	Antimony	mg/kg	6.10E-01	2.12E-06	1.04E-06	1.42E-10
14	8	Surface	Arsenic	mg/kg	1.14E+01	3.96E-05	1.16E-05	2.66E-09
14	8	Surface	Chromium	mg/kg	4.60E+01	1.60E-04	7.83E-05	1.08E-08
14	8	Surface	Mercury	mg/kg	7.90E+00	2.75E-05	1.34E-05	5.50E-05
14	8	Surface	Neptunium-237	pCi/g	8.80E-01	3.06E-06		2.06E-10
14	8	Surface	Nickel	mg/kg	6.73E+02	2.34E-03	9.15E-04	1.57E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	8	Surface	PCB, Total	mg/kg	5.00E+00	1.74E-05	2.38E-05	1.97E-06
14	8	Surface	Silver	mg/kg	9.63E+00	3.35E-05	1.31E-05	2.25E-09
14	8	Surface	Total PAH	mg/kg	6.28E-02	2.18E-07	2.78E-07	1.08E-09
14	8	Surface	Uranium	mg/kg	3.35E+02	1.17E-03	5.71E-04	7.83E-08
14	8	Surface	Uranium-235	pCi/g	2.38E-01	8.27E-07		5.56E-11
14	8	Surface	Uranium-238	pCi/g	5.92E+00	2.06E-05		1.38E-09
14	9	Surface	Antimony	mg/kg	2.00E+00	6.95E-06	3.40E-06	4.67E-10
14	9	Surface	Arsenic	mg/kg	1.40E+01	4.88E-05	1.43E-05	3.28E-09
14	9	Surface	Cadmium	mg/kg	9.40E-01	3.27E-06	3.20E-08	2.20E-10
14	9	Surface	Cesium-137	pCi/g	4.53E-01	1.57E-06		1.06E-10
14	9	Surface	Chromium	mg/kg	4.64E+01	1.61E-04	7.90E-05	1.08E-08
14	9	Surface	Mercury	mg/kg	1.13E+00	3.93E-06	1.92E-06	7.87E-06
14	9	Surface	Neptunium-237	pCi/g	1.09E+01	3.80E-05		2.55E-09
14	9	Surface	Nickel	mg/kg	9.43E+02	3.28E-03	1.28E-03	2.20E-07
14	9	Surface	PCB, Total	mg/kg	6.84E+00	2.38E-05	3.26E-05	2.69E-06
14	9	Surface	Technetium-99	pCi/g	1.96E+02	6.81E-04		4.58E-08
14	9	Surface	Total PAH	mg/kg	4.87E-01	1.69E-06	2.16E-06	8.42E-09
14	9	Surface	Uranium	mg/kg	1.46E+03	5.09E-03	2.49E-03	3.42E-07
14	9	Surface	Uranium-234	pCi/g	8.32E+02	2.89E-03		1.94E-07
14	9	Surface	Uranium-235	pCi/g	5.46E+01	1.90E-04		1.27E-08
14	9	Surface	Uranium-238	pCi/g	1.20E+03	4.17E-03		2.80E-07
14	10	Surface	Antimony	mg/kg	9.40E-01	3.27E-06	1.60E-06	2.20E-10
14	10	Surface	Arsenic	mg/kg	1.12E+01	3.91E-05	1.15E-05	2.63E-09
14	10	Surface	Chromium	mg/kg	4.19E+01	1.45E-04	7.12E-05	9.77E-09
14	10	Surface	Copper	mg/kg	1.41E+02	4.91E-04	2.40E-04	3.30E-08
14	10	Surface	Iron	mg/kg	2.75E+04	9.54E-02	4.67E-02	6.41E-06
14	10	Surface	Mercury	mg/kg	2.51E+01	8.72E-05	4.27E-05	1.75E-04
14	10	Surface	Neptunium-237	pCi/g	2.64E+00	9.18E-06		6.17E-10
14	10	Surface	Nickel	mg/kg	6.00E+02	2.09E-03	8.17E-04	1.40E-07
14	10	Surface	PCB, Total	mg/kg	9.38E+00	3.26E-05	4.47E-05	3.69E-06
14	10	Surface	Total PAH	mg/kg	2.72E-01	9.44E-07	1.20E-06	4.69E-09
14	10	Surface	Uranium	mg/kg	2.88E+02	1.00E-03	4.91E-04	6.74E-08
14	10	Surface	Uranium-234	pCi/g	2.42E+01	8.41E-05		5.65E-09
14	10	Surface	Uranium-235	pCi/g	1.76E+00	6.12E-06		4.11E-10
14	10	Surface	Uranium-238	pCi/g	4.09E+01	1.42E-04		9.55E-09
15	1	Surface	Antimony	mg/kg	6.40E-01	2.22E-06	1.09E-06	1.49E-10
15	1	Surface	Arsenic	mg/kg	1.24E+01	4.30E-05	1.26E-05	2.89E-09
15	1	Surface	Chromium	mg/kg	5.61E+01	1.95E-04	9.55E-05	1.31E-08
15	1	Surface	Copper	mg/kg	1.95E+02	6.77E-04	3.31E-04	4.55E-08
15	1	Surface	Iron	mg/kg	2.95E+04	1.03E-01	5.02E-02	6.90E-06
15	1	Surface	Nickel	mg/kg	1.33E+02	4.61E-04	1.81E-04	3.10E-08
15	1	Surface	PCB, Total	mg/kg	7.80E-02	2.71E-07	3.72E-07	3.07E-08
15	1	Surface	Silver	mg/kg	1.23E+01	4.27E-05	1.67E-05	2.87E-09
15	1	Surface	Total PAH	mg/kg	1.71E+00	5.96E-06	7.58E-06	2.96E-08
15	1	Surface	Uranium	mg/kg	3.09E+01	1.07E-04	5.26E-05	7.22E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	1	Surface	Uranium-238	pCi/g	1.85E+00	6.43E-06		4.32E-10
15	2	Surface	Antimony	mg/kg	6.60E-01	2.29E-06	1.12E-06	1.54E-10
15	2	Surface	Arsenic	mg/kg	1.63E+01	5.65E-05	1.66E-05	3.80E-09
15	2	Surface	Chromium	mg/kg	5.90E+01	2.05E-04	1.00E-04	1.38E-08
15	2	Surface	Iron	mg/kg	3.89E+04	1.35E-01	6.62E-02	9.08E-06
15	2	Surface	Mercury	mg/kg	9.33E+00	3.24E-05	1.59E-05	6.50E-05
15	2	Surface	Neptunium-237	pCi/g	1.35E-01	4.69E-07		3.15E-11
15	2	Surface	Nickel	mg/kg	1.97E+02	6.86E-04	2.69E-04	4.61E-08
15	2	Surface	PCB, Total	mg/kg	3.30E-01	1.15E-06	1.57E-06	1.30E-07
15	2	Surface	Total PAH	mg/kg	2.11E+00	7.33E-06	9.33E-06	3.64E-08
15	2	Surface	Uranium	mg/kg	1.32E+02	4.58E-04	2.24E-04	3.08E-08
15	2	Surface	Uranium-234	pCi/g	6.51E+00	2.26E-05		1.52E-09
15	2	Surface	Uranium-235	pCi/g	3.80E-01	1.32E-06		8.88E-11
15	2	Surface	Uranium-238	pCi/g	1.21E+01	4.21E-05		2.83E-09
15	3	Surface	Antimony	mg/kg	2.45E+01	8.52E-05	4.17E-05	5.72E-09
15	3	Surface	Arsenic	mg/kg	2.60E+01	9.03E-05	2.65E-05	6.07E-09
15	3	Surface	Beryllium	mg/kg	7.60E-01	2.64E-06	1.81E-07	1.78E-10
15	3	Surface	Cadmium	mg/kg	1.19E+01	4.14E-05	4.05E-07	2.78E-09
15	3	Surface	Chromium	mg/kg	7.53E+01	2.62E-04	1.28E-04	1.76E-08
15	3	Surface	Cobalt	mg/kg	3.41E+01	1.19E-04	5.80E-05	7.96E-09
15	3	Surface	Copper	mg/kg	1.40E+03	4.85E-03	2.38E-03	3.26E-07
15	3	Surface	Iron	mg/kg	9.20E+04	3.20E-01	1.57E-01	2.15E-05
15	3	Surface	Manganese	mg/kg	1.60E+03	5.57E-03	2.18E-03	3.75E-07
15	3	Surface	Mercury	mg/kg	2.74E+00	9.52E-06	4.66E-06	1.91E-05
15	3	Surface	Molybdenum	mg/kg	1.70E+01	5.91E-05	2.89E-05	3.97E-09
15	3	Surface	Neptunium-237	pCi/g	4.10E+00	1.42E-05		9.58E-10
15	3	Surface	Nickel	mg/kg	7.57E+02	2.63E-03	1.03E-03	1.77E-07
15	3	Surface	PCB, Total	mg/kg	6.82E+00	2.37E-05	3.25E-05	2.69E-06
15	3	Surface	Selenium	mg/kg	2.65E+01	9.19E-05	4.50E-05	6.18E-09
15	3	Surface	Silver	mg/kg	3.20E+00	1.11E-05	4.36E-06	7.47E-10
15	3	Surface	Technetium-99	pCi/g	3.67E+02	1.28E-03		8.57E-08
15	3	Surface	Thorium-230	pCi/g	7.23E+00	2.51E-05		1.69E-09
15	3	Surface	Total PAH	mg/kg	1.45E+00	5.05E-06	6.43E-06	2.51E-08
15	3	Surface	Uranium	mg/kg	2.16E+02	7.51E-04	3.68E-04	5.05E-08
15	3	Surface	Uranium-234	pCi/g	6.96E+01	2.42E-04		1.63E-08
15	3	Surface	Uranium-235	pCi/g	4.21E+00	1.46E-05		9.83E-10
15	3	Surface	Uranium-238	pCi/g	9.67E+01	3.36E-04		2.26E-08
15	3	Surface	Zinc	mg/kg	8.79E+02	3.06E-03	1.50E-03	2.05E-07
15	4	Surface	Antimony	mg/kg	7.40E+00	2.57E-05	1.26E-05	1.73E-09
15	4	Surface	Arsenic	mg/kg	3.47E+01	1.20E-04	3.54E-05	8.09E-09
15	4	Surface	Cadmium	mg/kg	1.40E+00	4.87E-06	4.76E-08	3.27E-10
15	4	Surface	Chromium	mg/kg	1.02E+02	3.55E-04	1.74E-04	2.39E-08
15	4	Surface	Copper	mg/kg	7.05E+02	2.45E-03	1.20E-03	1.65E-07
15	4	Surface	Iron	mg/kg	7.81E+04	2.71E-01	1.33E-01	1.82E-05
15	4	Surface	Manganese	mg/kg	1.54E+03	5.34E-03	2.09E-03	3.59E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	4	Surface	Mercury	mg/kg	1.41E+01	4.90E-05	2.40E-05	9.81E-05
15	4	Surface	Neptunium-237	pCi/g	8.00E-01	2.78E-06		1.87E-10
15	4	Surface	Nickel	mg/kg	1.37E+03	4.78E-03	1.87E-03	3.21E-07
15	4	Surface	PCB, Total	mg/kg	2.67E+01	9.29E-05	1.27E-04	1.05E-05
15	4	Surface	Silver	mg/kg	1.46E+01	5.07E-05	1.99E-05	3.41E-09
15	4	Surface	Total PAH	mg/kg	2.44E+00	8.50E-06	1.08E-05	4.22E-08
15	4	Surface	Uranium	mg/kg	1.57E+02	5.44E-04	2.66E-04	3.66E-08
15	4	Surface	Uranium-234	pCi/g	1.07E+01	3.72E-05		2.50E-09
15	4	Surface	Uranium-235	pCi/g	4.30E-01	1.49E-06		1.00E-10
15	4	Surface	Uranium-238	pCi/g	1.87E+01	6.50E-05		4.37E-09
15	4	Surface	Zinc	mg/kg	1.19E+03	4.13E-03	2.02E-03	2.78E-07
15	5	Surface	Antimony	mg/kg	3.10E+00	1.08E-05	5.27E-06	7.24E-10
15	5	Surface	Arsenic	mg/kg	1.28E+01	4.45E-05	1.31E-05	2.99E-09
15	5	Surface	Cadmium	mg/kg	1.50E+00	5.21E-06	5.10E-08	3.50E-10
15	5	Surface	Chromium	mg/kg	4.28E+01	1.49E-04	7.28E-05	9.99E-09
15	5	Surface	Copper	mg/kg	5.63E+03	1.96E-02	9.58E-03	1.32E-06
15	5	Surface	Mercury	mg/kg	3.38E-01	1.17E-06	5.75E-07	2.35E-06
15	5	Surface	Neptunium-237	pCi/g	6.90E-01	2.40E-06		1.61E-10
15	5	Surface	Nickel	mg/kg	5.10E+02	1.77E-03	6.95E-04	1.19E-07
15	5	Surface	PCB, Total	mg/kg	2.51E+01	8.73E-05	1.20E-04	9.89E-06
15	5	Surface	Silver	mg/kg	1.46E+01	5.07E-05	1.99E-05	3.41E-09
15	5	Surface	Technetium-99	pCi/g	1.07E+02	3.72E-04		2.50E-08
15	5	Surface	Total PAH	mg/kg	5.11E-01	1.77E-06	2.26E-06	8.82E-09
15	5	Surface	Uranium	mg/kg	2.13E+02	7.42E-04	3.63E-04	4.98E-08
15	5	Surface	Uranium-234	pCi/g	5.83E+00	2.03E-05		1.36E-09
15	5	Surface	Uranium-235	pCi/g	4.60E-01	1.60E-06		1.07E-10
15	5	Surface	Uranium-238	pCi/g	1.03E+01	3.58E-05		2.41E-09
15	5	Surface	Zinc	mg/kg	1.52E+03	5.30E-03	2.59E-03	3.56E-07
15	6	Surface	Antimony	mg/kg	5.10E+00	1.77E-05	8.68E-06	1.19E-09
15	6	Surface	Arsenic	mg/kg	1.24E+01	4.32E-05	1.27E-05	2.90E-09
15	6	Surface	Cadmium	mg/kg	1.50E+00	5.21E-06	5.10E-08	3.50E-10
15	6	Surface	Chromium	mg/kg	5.80E+01	2.01E-04	9.86E-05	1.35E-08
15	6	Surface	Cobalt	mg/kg	1.62E+01	5.63E-05	2.76E-05	3.78E-09
15	6	Surface	Copper	mg/kg	4.23E+02	1.47E-03	7.20E-04	9.88E-08
15	6	Surface	Iron	mg/kg	3.15E+04	1.09E-01	5.36E-02	7.36E-06
15	6	Surface	Mercury	mg/kg	4.10E-01	1.42E-06	6.98E-07	2.85E-06
15	6	Surface	Neptunium-237	pCi/g	6.40E-01	2.22E-06		1.49E-10
15	6	Surface	Nickel	mg/kg	3.24E+02	1.13E-03	4.41E-04	7.57E-08
15	6	Surface	PCB, Total	mg/kg	6.17E+00	2.14E-05	2.94E-05	2.43E-06
15	6	Surface	Silver	mg/kg	1.09E+01	3.79E-05	1.49E-05	2.55E-09
15	6	Surface	Total PAH	mg/kg	1.62E+00	5.64E-06	7.18E-06	2.80E-08
15	6	Surface	Uranium	mg/kg	6.70E+01	2.33E-04	1.14E-04	1.57E-08
15	6	Surface	Uranium-234	pCi/g	8.74E+00	3.04E-05		2.04E-09
15	6	Surface	Uranium-235	pCi/g	5.70E-01	1.98E-06		1.33E-10
15	6	Surface	Uranium-238	pCi/g	1.54E+01	5.35E-05		3.60E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	7	Surface	Antimony	mg/kg	7.50E-01	2.61E-06	1.28E-06	1.75E-10
15	7	Surface	Arsenic	mg/kg	1.61E+01	5.59E-05	1.64E-05	3.76E-09
15	7	Surface	Cadmium	mg/kg	1.00E+00	3.48E-06	3.40E-08	2.34E-10
15	7	Surface	Chromium	mg/kg	7.87E+01	2.74E-04	1.34E-04	1.84E-08
15	7	Surface	Copper	mg/kg	7.33E+02	2.55E-03	1.25E-03	1.71E-07
15	7	Surface	Iron	mg/kg	3.42E+04	1.19E-01	5.82E-02	7.99E-06
15	7	Surface	Manganese	mg/kg	1.11E+03	3.84E-03	1.50E-03	2.58E-07
15	7	Surface	Neptunium-237	pCi/g	2.23E-01	7.75E-07		5.21E-11
15	7	Surface	Nickel	mg/kg	5.59E+02	1.94E-03	7.60E-04	1.30E-07
15	7	Surface	PCB, Total	mg/kg	2.57E+01	8.92E-05	1.22E-04	1.01E-05
15	7	Surface	Silver	mg/kg	1.29E+01	4.47E-05	1.75E-05	3.00E-09
15	7	Surface	Total PAH	mg/kg	1.59E-01	5.52E-07	7.03E-07	2.74E-09
15	7	Surface	Uranium	mg/kg	5.39E+01	1.87E-04	9.17E-05	1.26E-08
15	7	Surface	Uranium-234	pCi/g	6.49E+00	2.26E-05		1.52E-09
15	7	Surface	Uranium-235	pCi/g	4.50E-01	1.56E-06		1.05E-10
15	7	Surface	Uranium-238	pCi/g	8.05E+00	2.80E-05		1.88E-09
15	7	Surface	Zinc	mg/kg	5.87E+02	2.04E-03	9.99E-04	1.37E-07
15	8	Surface	Antimony	mg/kg	5.40E+00	1.88E-05	9.19E-06	1.26E-09
15	8	Surface	Arsenic	mg/kg	1.17E+01	4.05E-05	1.19E-05	2.72E-09
15	8	Surface	Chromium	mg/kg	7.74E+01	2.69E-04	1.32E-04	1.81E-08
15	8	Surface	Copper	mg/kg	1.62E+02	5.62E-04	2.75E-04	3.78E-08
15	8	Surface	Iron	mg/kg	2.83E+04	9.82E-02	4.81E-02	6.60E-06
15	8	Surface	Mercury	mg/kg	1.00E+01	3.49E-05	1.71E-05	6.99E-05
15	8	Surface	Neptunium-237	pCi/g	3.65E-01	1.27E-06		8.53E-11
15	8	Surface	Nickel	mg/kg	1.82E+02	6.32E-04	2.47E-04	4.24E-08
15	8	Surface	PCB, Total	mg/kg	4.90E+00	1.70E-05	2.33E-05	1.93E-06
15	8	Surface	Silver	mg/kg	1.36E+01	4.71E-05	1.84E-05	3.16E-09
15	8	Surface	Total PAH	mg/kg	3.59E-01	1.25E-06	1.59E-06	6.20E-09
15	8	Surface	Uranium	mg/kg	4.46E+01	1.55E-04	7.58E-05	1.04E-08
15	8	Surface	Uranium-235	pCi/g	3.04E-01	1.06E-06		7.10E-11
15	8	Surface	Uranium-238	pCi/g	6.64E+00	2.31E-05		1.55E-09
15	9	Surface	Arsenic	mg/kg	1.10E+01	3.84E-05	1.13E-05	2.58E-09
15	9	Surface	Chromium	mg/kg	9.56E+01	3.32E-04	1.63E-04	2.23E-08
15	9	Surface	Copper	mg/kg	1.36E+02	4.72E-04	2.31E-04	3.17E-08
15	9	Surface	Iron	mg/kg	2.76E+04	9.59E-02	4.69E-02	6.44E-06
15	9	Surface	Neptunium-237	pCi/g	1.28E-01	4.45E-07		2.99E-11
15	9	Surface	Nickel	mg/kg	1.49E+02	5.18E-04	2.03E-04	3.48E-08
15	9	Surface	PCB, Total	mg/kg	3.30E-01	1.15E-06	1.57E-06	1.30E-07
15	9	Surface	Silver	mg/kg	1.54E+01	5.36E-05	2.10E-05	3.60E-09
15	9	Surface	Total PAH	mg/kg	2.38E-01	8.28E-07	1.05E-06	4.12E-09
15	9	Surface	Uranium	mg/kg	3.07E+01	1.07E-04	5.22E-05	7.16E-09
15	9	Surface	Uranium-235	pCi/g	2.42E-01	8.41E-07		5.65E-11
15	9	Surface	Uranium-238	pCi/g	7.12E+00	2.47E-05		1.66E-09
15	10	Surface	Chromium	mg/kg	3.55E+01	1.23E-04	6.04E-05	8.29E-09
15	10	Surface	Mercury	mg/kg	7.84E+00	2.72E-05	1.33E-05	5.46E-05

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	10	Surface	Nickel	mg/kg	1.46E+02	5.06E-04	1.98E-04	3.40E-08
15	10	Surface	Silver	mg/kg	1.08E+01	3.76E-05	1.47E-05	2.52E-09
15	10	Surface	Total PAH	mg/kg	1.28E-01	4.46E-07	5.68E-07	2.22E-09
15	10	Surface	Uranium	mg/kg	6.47E+01	2.25E-04	1.10E-04	1.51E-08
16	1	Surface	Cesium-137	pCi/g	1.10E+00	3.82E-06		2.57E-10
16	1	Surface	PCB, Total	mg/kg	9.60E-02	3.34E-07	4.57E-07	3.78E-08
16	1	Surface	Total PAH	mg/kg	2.72E-02	9.45E-08	1.20E-07	4.70E-10
16	2	Surface	Beryllium	mg/kg	8.40E-01	2.92E-06	2.00E-07	1.96E-10
16	2	Surface	Chromium	mg/kg	2.04E+01	7.09E-05	3.47E-05	4.76E-09
16	2	Surface	Nickel	mg/kg	2.16E+01	7.51E-05	2.94E-05	5.05E-09
16	3	Surface	PCB, Total	mg/kg	9.49E-01	3.30E-06	4.52E-06	3.74E-07
16	4	Surface	Cesium-137	pCi/g	3.66E+01	1.27E-04		8.54E-09
16	4	Surface	Cobalt-60	pCi/g	8.53E-03	2.96E-08		1.99E-12
16	4	Surface	Neptunium-237	pCi/g	7.12E+00	2.47E-05		1.66E-09
16	4	Surface	PCB, Total	mg/kg	3.20E-01	1.11E-06	1.52E-06	1.26E-07
16	4	Surface	Technetium-99	pCi/g	2.96E+02	1.03E-03		6.91E-08
16	4	Surface	Thorium-230	pCi/g	5.29E+00	1.84E-05		1.24E-09
16	4	Surface	Total PAH	mg/kg	2.93E+00	1.02E-05	1.30E-05	5.06E-08
16	4	Surface	Uranium-234	pCi/g	1.19E+02	4.14E-04		2.78E-08
16	4	Surface	Uranium-235	pCi/g	8.23E+00	2.86E-05		1.92E-09
16	4	Surface	Uranium-238	pCi/g	2.70E+02	9.38E-04		6.31E-08
19	1	Surface	Beryllium	mg/kg	1.10E+00	3.82E-06	2.62E-07	2.57E-10
19	1	Surface	Cadmium	mg/kg	1.20E+00	4.17E-06	4.08E-08	2.80E-10
19	1	Surface	Thallium	mg/kg	9.80E-01	3.41E-06	1.67E-06	2.29E-10
19	1	Surface	Total PAH	mg/kg	5.23E+00	1.82E-05	2.31E-05	9.03E-08
26	1	Surface	Arsenic	mg/kg	1.29E+01	4.48E-05	1.31E-05	3.01E-09
26	1	Surface	Beryllium	mg/kg	6.69E-01	2.33E-06	1.59E-07	1.56E-10
26	1	Surface	Cadmium	mg/kg	1.99E+00	6.93E-06	6.78E-08	4.66E-10
26	1	Surface	Cesium-137	pCi/g	3.16E+00	1.10E-05		7.39E-10
26	1	Surface	Chromium	mg/kg	1.90E+01	6.60E-05	3.23E-05	4.44E-09
26	1	Surface	Cobalt-60	pCi/g	1.93E-03	6.71E-09		4.51E-13
26	1	Surface	Mercury	mg/kg	1.66E-01	5.77E-07	2.82E-07	1.16E-06
26	1	Surface	Neptunium-237	pCi/g	2.61E-01	9.07E-07		6.10E-11
26	1	Surface	Nickel	mg/kg	1.76E+01	6.11E-05	2.39E-05	4.11E-09
26	1	Surface	PCB, Total	mg/kg	9.33E-01	3.24E-06	4.45E-06	3.67E-07
26	1	Surface	Plutonium-239/240	pCi/g	4.04E+00	1.40E-05		9.43E-10
26	1	Surface	Thorium-230	pCi/g	3.82E+00	1.33E-05		8.92E-10
26	1	Surface	Total PAH	mg/kg	5.00E-02	1.74E-07	2.21E-07	8.64E-10
26	1	Surface	Uranium	mg/kg	1.29E+02	4.47E-04	2.19E-04	3.01E-08
26	1	Surface	Uranium-234	pCi/g	4.67E+00	1.62E-05		1.09E-09
26	1	Surface	Uranium-235	pCi/g	6.41E-01	2.23E-06		1.50E-10
26	1	Surface	Uranium-238	pCi/g	3.47E+01	1.20E-04		8.10E-09
26	2	Surface	Aluminum	mg/kg	2.17E+04	7.53E-02	3.69E-02	5.06E-06
26	2	Surface	Arsenic	mg/kg	4.72E+01	1.64E-04	4.82E-05	1.10E-08
26	2	Surface	Barium	mg/kg	1.49E+02	5.17E-04	2.53E-04	3.47E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
26	2	Surface	Beryllium	mg/kg	9.69E+00	3.37E-05	2.31E-06	2.26E-09
26	2	Surface	Cadmium	mg/kg	2.38E+00	8.28E-06	8.10E-08	5.56E-10
26	2	Surface	Cesium-137	pCi/g	5.92E+00	2.06E-05		1.38E-09
26	2	Surface	Chromium	mg/kg	3.90E+01	1.36E-04	6.64E-05	9.11E-09
26	2	Surface	Cobalt	mg/kg	5.20E+01	1.81E-04	8.85E-05	1.21E-08
26	2	Surface	Copper	mg/kg	1.31E+02	4.55E-04	2.23E-04	3.06E-08
26	2	Surface	Iron	mg/kg	5.32E+04	1.85E-01	9.05E-02	1.24E-05
26	2	Surface	Neptunium-237	pCi/g	7.89E-01	2.74E-06		1.84E-10
26	2	Surface	Nickel	mg/kg	1.13E+02	3.93E-04	1.54E-04	2.64E-08
26	2	Surface	PCB, Total	mg/kg	2.23E+00	7.75E-06	1.06E-05	8.78E-07
26	2	Surface	Thallium	mg/kg	1.39E+01	4.83E-05	2.37E-05	3.25E-09
26	2	Surface	Thorium-230	pCi/g	1.51E+01	5.26E-05		3.53E-09
26	2	Surface	Uranium	mg/kg	6.46E+02	2.25E-03	1.10E-03	1.51E-07
26	2	Surface	Uranium-234	pCi/g	1.91E+01	6.63E-05		4.45E-09
26	2	Surface	Uranium-235	pCi/g	1.71E+00	5.93E-06		3.99E-10
26	2	Surface	Uranium-238	pCi/g	5.14E+01	1.79E-04		1.20E-08
26	2	Surface	Vanadium	mg/kg	3.13E+01	1.09E-04	2.77E-05	7.30E-09
26	3	Surface	Aluminum	mg/kg	9.55E+03	3.32E-02	1.62E-02	2.23E-06
26	3	Surface	Antimony	mg/kg	1.40E+00	4.87E-06	2.38E-06	3.27E-10
26	3	Surface	Arsenic	mg/kg	5.09E+01	1.77E-04	5.19E-05	1.19E-08
26	3	Surface	Barium	mg/kg	4.48E+02	1.56E-03	7.61E-04	1.05E-07
26	3	Surface	Beryllium	mg/kg	2.54E+00	8.81E-06	6.04E-07	5.92E-10
26	3	Surface	Cadmium	mg/kg	2.34E+00	8.13E-06	7.96E-08	5.47E-10
26	3	Surface	Cesium-137	pCi/g	7.48E-01	2.60E-06		1.75E-10
26	3	Surface	Chromium	mg/kg	3.25E+01	1.13E-04	5.54E-05	7.60E-09
26	3	Surface	Cobalt	mg/kg	1.21E+01	4.21E-05	2.06E-05	2.83E-09
26	3	Surface	Mercury	mg/kg	3.87E-01	1.35E-06	6.59E-07	2.69E-06
26	3	Surface	Naphthalene	mg/kg	1.32E+00	4.59E-06	1.12E-05	1.03E-05
26	3	Surface	Neptunium-237	pCi/g	7.53E-01	2.62E-06		1.76E-10
26	3	Surface	Nickel	mg/kg	2.97E+01	1.03E-04	4.04E-05	6.94E-09
26	3	Surface	PCB, Total	mg/kg	2.52E+00	8.75E-06	1.20E-05	9.91E-07
26	3	Surface	Silver	mg/kg	2.59E+01	9.00E-05	3.53E-05	6.05E-09
26	3	Surface	Technetium-99	pCi/g	6.48E+01	2.25E-04		1.51E-08
26	3	Surface	Thallium	mg/kg	6.00E-01	2.09E-06	1.02E-06	1.40E-10
26	3	Surface	Thorium-230	pCi/g	7.10E+00	2.47E-05		1.66E-09
26	3	Surface	Total PAH	mg/kg	1.19E+00	4.13E-06	5.26E-06	2.05E-08
26	3	Surface	Uranium	mg/kg	9.88E+01	3.43E-04	1.68E-04	2.31E-08
26	3	Surface	Uranium-234	pCi/g	4.63E+01	1.61E-04		1.08E-08
26	3	Surface	Uranium-235	pCi/g	1.69E+00	5.88E-06		3.95E-10
26	3	Surface	Uranium-238	pCi/g	5.19E+01	1.80E-04		1.21E-08
26	3	Surface	Vanadium	mg/kg	3.77E+01	1.31E-04	3.33E-05	8.80E-09
26	4	Surface	Aluminum	mg/kg	1.07E+04	3.71E-02	1.82E-02	2.49E-06
26	4	Surface	Americium-241	pCi/g	1.27E+00	4.42E-06		2.97E-10
26	4	Surface	Antimony	mg/kg	6.00E-01	2.09E-06	1.02E-06	1.40E-10
26	4	Surface	Beryllium	mg/kg	6.91E-01	2.40E-06	1.65E-07	1.61E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
26	4	Surface	Cadmium	mg/kg	1.99E+00	6.92E-06	6.78E-08	4.65E-10
26	4	Surface	Cesium-137	pCi/g	6.38E-01	2.22E-06		1.49E-10
26	4	Surface	Chromium	mg/kg	8.57E+01	2.98E-04	1.46E-04	2.00E-08
26	4	Surface	Cobalt-60	pCi/g	1.21E-03	4.21E-09		2.83E-13
26	4	Surface	Copper	mg/kg	1.16E+02	4.02E-04	1.97E-04	2.70E-08
26	4	Surface	Mercury	mg/kg	3.07E+00	1.07E-05	5.23E-06	2.14E-05
26	4	Surface	Neptunium-237	pCi/g	1.36E+01	4.72E-05		3.17E-09
26	4	Surface	Nickel	mg/kg	7.54E+01	2.62E-04	1.03E-04	1.76E-08
26	4	Surface	PCB, Total	mg/kg	5.54E-01	1.93E-06	2.64E-06	2.18E-07
26	4	Surface	Plutonium-239/240	pCi/g	5.00E+00	1.74E-05		1.17E-09
26	4	Surface	Technetium-99	pCi/g	5.97E+02	2.08E-03		1.40E-07
26	4	Surface	Thorium-230	pCi/g	3.26E+01	1.13E-04		7.62E-09
26	4	Surface	Total PAH	mg/kg	2.83E-02	9.84E-08	1.25E-07	4.89E-10
26	4	Surface	Uranium	mg/kg	9.75E+02	3.39E-03	1.66E-03	2.28E-07
26	4	Surface	Uranium-234	pCi/g	1.54E+02	5.37E-04		3.61E-08
26	4	Surface	Uranium-235	pCi/g	8.80E+00	3.06E-05		2.06E-09
26	4	Surface	Uranium-235	pCi/g	3.19E+01	1.11E-04		7.45E-09
26	4	Surface	Uranium-238	pCi/g				
47	1	Surface	Aluminum	mg/kg	1.50E+04	5.21E-02	2.55E-02	3.50E-06
47	1	Surface	Antimony	mg/kg	9.00E-01	3.13E-06	1.53E-06	2.10E-10
47	1	Surface	Arsenic	mg/kg	4.52E+01	1.57E-04	4.61E-05	1.06E-08
47	1	Surface	Beryllium	mg/kg	7.00E-01	2.43E-06	1.67E-07	1.63E-10
47	1	Surface	Cadmium	mg/kg	4.25E+00	1.48E-05	1.45E-07	9.93E-10
47	1	Surface	Chromium	mg/kg	5.39E+01	1.87E-04	9.17E-05	1.26E-08
47	1	Surface	Cobalt	mg/kg	1.43E+01	4.97E-05	2.43E-05	3.34E-09
47	1	Surface	Iron	mg/kg	2.95E+04	1.03E-01	5.02E-02	6.89E-06
47	1	Surface	Naphthalene	mg/kg	1.90E+00	6.60E-06	1.62E-05	1.48E-05
47	1	Surface	Neptunium-237	pCi/g	1.15E-01	4.00E-07		2.69E-11
47	1	Surface	Nickel	mg/kg	8.25E+01	2.87E-04	1.12E-04	1.93E-08
47	1	Surface	PCB, Total	mg/kg	9.60E-01	3.34E-06	4.57E-06	3.78E-07
47	1	Surface	Plutonium-239/240	pCi/g	4.11E+00	1.43E-05		9.60E-10
47	1	Surface	Pyrene	mg/kg	1.11E+02	3.84E-04	4.89E-04	1.70E-05
47	1	Surface	Thorium-230	pCi/g	4.11E+01	1.43E-04		9.60E-09
47	1	Surface	Total PAH	mg/kg	5.41E+01	1.88E-04	2.39E-04	9.34E-07
47	1	Surface	Uranium	mg/kg	3.23E+01	1.12E-04	5.50E-05	7.55E-09
47	1	Surface	Uranium-234	pCi/g	6.85E+00	2.38E-05		1.60E-09
47	1	Surface	Uranium-235	pCi/g	5.00E-01	1.74E-06		1.17E-10
47	1	Surface	Uranium-238	pCi/g	7.93E+00	2.76E-05		1.85E-09
74	1	Surface	PCB, Total	mg/kg	2.97E+00	1.03E-05	1.42E-05	1.17E-06
74	1	Surface	Total PAH	mg/kg	3.16E+00	1.10E-05	1.40E-05	5.46E-08
74	1	Surface	Uranium-234	pCi/g	7.55E+00	2.62E-05		1.76E-09
74	1	Surface	Uranium-238	pCi/g	3.85E+01	1.34E-04		8.99E-09
75	1	Surface	Cadmium	mg/kg	1.10E+00	3.82E-06	3.74E-08	2.57E-10
75	1	Surface	Chromium	mg/kg	7.17E+01	2.49E-04	1.22E-04	1.68E-08
75	1	Surface	Copper	mg/kg	3.15E+02	1.09E-03	5.36E-04	7.36E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
75	1	Surface	Nickel	mg/kg	8.87E+01	3.08E-04	1.21E-04	2.07E-08
75	1	Surface	PCB, Total	mg/kg	2.30E-01	7.99E-07	1.10E-06	9.06E-08
75	1	Surface	Total PAH	mg/kg	2.21E-01	7.69E-07	9.79E-07	3.82E-09
76	1	Surface	Barium	mg/kg	2.69E+02	9.35E-04	4.58E-04	6.28E-08
76	1	Surface	PCB, Total	mg/kg	2.60E-01	9.04E-07	1.24E-06	1.02E-07
76	1	Surface	Total PAH	mg/kg	1.76E+00	6.11E-06	7.78E-06	3.04E-08
76	1	Surface	Uranium-238	pCi/g	1.45E+00	5.04E-06		3.39E-10
78	1	Surface	Cadmium	mg/kg	2.36E+00	8.20E-06	8.03E-08	5.51E-10
78	1	Surface	Chromium	mg/kg	3.75E+01	1.30E-04	6.38E-05	8.76E-09
78	1	Surface	Cobalt-60	pCi/g	5.91E-03	2.05E-08		1.38E-12
78	1	Surface	Naphthalene	mg/kg	1.60E+01	5.56E-05	1.36E-04	1.25E-04
78	1	Surface	Nickel	mg/kg	2.15E+01	7.47E-05	2.93E-05	5.02E-09
78	1	Surface	PCB, Total	mg/kg	1.20E+01	4.17E-05	5.72E-05	4.73E-06
78	1	Surface	Total PAH	mg/kg	3.91E+01	1.36E-04	1.73E-04	6.76E-07
78	1	Surface	Uranium-235	pCi/g	2.64E-01	9.18E-07		6.17E-11
78	1	Surface	Uranium-238	pCi/g	5.29E+00	1.84E-05		1.24E-09
80	1	Surface	Americium-241	pCi/g	6.40E+00	2.22E-05		1.49E-09
80	1	Surface	Antimony	mg/kg	9.10E-01	3.16E-06	1.55E-06	2.13E-10
80	1	Surface	Beryllium	mg/kg	7.80E-01	2.71E-06	1.86E-07	1.82E-10
80	1	Surface	Chromium	mg/kg	1.65E+02	5.73E-04	2.81E-04	3.85E-08
80	1	Surface	Mercury	mg/kg	4.50E-01	1.56E-06	7.66E-07	3.13E-06
80	1	Surface	Neptunium-237	pCi/g	5.05E-01	1.76E-06		1.18E-10
80	1	Surface	PCB, Total	mg/kg	1.46E+01	5.08E-05	6.97E-05	5.76E-06
80	1	Surface	Thorium-230	pCi/g	4.40E+00	1.53E-05		1.03E-09
80	1	Surface	Total PAH	mg/kg	1.42E-01	4.92E-07	6.27E-07	2.45E-09
80	1	Surface	Uranium	mg/kg	5.72E+03	1.99E-02	9.74E-03	1.34E-06
80	1	Surface	Uranium-234	pCi/g	2.29E+02	7.96E-04		5.35E-08
80	1	Surface	Uranium-235	pCi/g	3.00E+01	1.04E-04		7.01E-09
80	1	Surface	Uranium-238	pCi/g	1.92E+03	6.68E-03		4.49E-07
81	1	Surface	Aluminum	mg/kg	9.57E+03	3.33E-02	1.63E-02	2.24E-06
81	1	Surface	Arsenic	mg/kg	1.03E+01	3.56E-05	1.05E-05	2.39E-09
81	1	Surface	Beryllium	mg/kg	7.57E-01	2.63E-06	1.80E-07	1.77E-10
81	1	Surface	Chromium	mg/kg	8.62E+01	3.00E-04	1.47E-04	2.01E-08
81	1	Surface	Mercury	mg/kg	8.33E+00	2.90E-05	1.42E-05	5.80E-05
81	1	Surface	Nickel	mg/kg	7.29E+01	2.53E-04	9.92E-05	1.70E-08
81	1	Surface	PCB, Total	mg/kg	1.60E+02	5.55E-04	7.61E-04	6.29E-05
81	1	Surface	Silver	mg/kg	2.70E+00	9.38E-06	3.68E-06	6.31E-10
81	1	Surface	Total PAH	mg/kg	5.53E-01	1.92E-06	2.45E-06	9.55E-09
81	1	Surface	Uranium	mg/kg	6.50E+03	2.26E-02	1.11E-02	1.52E-06
81	1	Surface	Uranium-238	pCi/g	2.29E+00	7.94E-06		5.34E-10
99	1	Surface	Chromium	mg/kg	5.51E+01	1.92E-04	9.38E-05	1.29E-08
99	1	Surface	Cobalt-60	pCi/g	1.19E-02	4.14E-08		2.78E-12
99	1	Surface	Mercury	mg/kg	9.53E+00	3.31E-05	1.62E-05	6.64E-05
99	1	Surface	Nickel	mg/kg	7.02E+01	2.44E-04	9.56E-05	1.64E-08
99	1	Surface	Silver	mg/kg	1.03E+01	3.58E-05	1.40E-05	2.41E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
99	1	Surface	Uranium-238	pCi/g	9.45E-01	3.28E-06		2.21E-10
138	1	Surface	Antimony	mg/kg	5.39E+00	1.87E-05	9.18E-06	1.26E-09
138	1	Surface	Arsenic	mg/kg	1.06E+01	3.69E-05	1.08E-05	2.48E-09
138	1	Surface	Cadmium	mg/kg	5.42E+00	1.88E-05	1.84E-07	1.27E-09
138	1	Surface	Chromium	mg/kg	5.39E+01	1.87E-04	9.16E-05	1.26E-08
138	1	Surface	Mercury	mg/kg	1.30E+01	4.51E-05	2.21E-05	9.04E-05
138	1	Surface	Nickel	mg/kg	7.04E+01	2.45E-04	9.58E-05	1.64E-08
138	1	Surface	PCB, Total	mg/kg	5.00E-01	1.74E-06	2.38E-06	1.97E-07
138	1	Surface	Silver	mg/kg	1.01E+01	3.51E-05	1.37E-05	2.36E-09
138	1	Surface	Total PAH	mg/kg	9.74E-02	3.39E-07	4.31E-07	1.68E-09
138	2	Surface	Nickel	mg/kg	7.99E+01	2.78E-04	1.09E-04	1.87E-08
138	2	Surface	PCB, Total	mg/kg	9.20E-02	3.20E-07	4.38E-07	3.62E-08
138	2	Surface	Silver	mg/kg	1.04E+01	3.63E-05	1.42E-05	2.44E-09
138	2	Surface	Total PAH	mg/kg	3.84E-02	1.33E-07	1.70E-07	6.63E-10
153	1	Surface	PCB, Total	mg/kg	5.09E-01	1.77E-06	2.43E-06	2.00E-07
153	1	Surface	Total PAH	mg/kg	8.69E-02	3.02E-07	3.85E-07	1.50E-09
154	1	Surface	Arsenic	mg/kg	1.52E+01	5.27E-05	1.55E-05	3.54E-09
154	1	Surface	Chromium	mg/kg	4.28E+01	1.49E-04	7.28E-05	9.99E-09
154	1	Surface	Nickel	mg/kg	9.89E+01	3.44E-04	1.35E-04	2.31E-08
154	1	Surface	PCB, Total	mg/kg	3.20E+00	1.11E-05	1.52E-05	1.26E-06
154	1	Surface	Total PAH	mg/kg	1.04E+00	3.62E-06	4.60E-06	1.80E-08
154	1	Surface	Uranium	mg/kg	3.82E+01	1.33E-04	6.50E-05	8.92E-09
154	1	Surface	Uranium-238	pCi/g	3.06E+00	1.06E-05		7.15E-10
154	2	Surface	PCB, Total	mg/kg	4.00E-01	1.39E-06	1.91E-06	1.58E-07
155	1	Surface	Antimony	mg/kg	3.65E+00	1.27E-05	6.22E-06	8.53E-10
155	1	Surface	Chromium	mg/kg	3.47E+01	1.21E-04	5.90E-05	8.10E-09
155	1	Surface	Neptunium-237	pCi/g	1.03E-01	3.58E-07		2.41E-11
155	1	Surface	Nickel	mg/kg	7.65E+01	2.66E-04	1.04E-04	1.79E-08
155	1	Surface	PCB, Total	mg/kg	9.20E+00	3.20E-05	4.38E-05	3.62E-06
155	1	Surface	Silver	mg/kg	1.11E+01	3.85E-05	1.51E-05	2.59E-09
156	1	Surface	Chromium	mg/kg	4.90E+01	1.70E-04	8.34E-05	1.15E-08
156	1	Surface	Manganese	mg/kg	2.83E+03	9.85E-03	3.86E-03	6.62E-07
156	1	Surface	Mercury	mg/kg	9.87E+00	3.43E-05	1.68E-05	6.87E-05
156	1	Surface	Nickel	mg/kg	6.16E+01	2.14E-04	8.39E-05	1.44E-08
156	1	Surface	PCB, Total	mg/kg	3.00E-01	1.04E-06	1.43E-06	1.18E-07
156	1	Surface	Total PAH	mg/kg	8.26E-02	2.87E-07	3.65E-07	1.43E-09
156	1	Surface	Uranium	mg/kg	2.32E+01	8.06E-05	3.95E-05	5.42E-09
156	1	Surface	Uranium-238	pCi/g	2.19E+00	7.61E-06		5.12E-10
158	1	Surface	Antimony	mg/kg	5.23E-01	1.82E-06	8.90E-07	1.22E-10
158	1	Surface	Arsenic	mg/kg	1.01E+01	3.52E-05	1.03E-05	2.36E-09
158	1	Surface	Barium	mg/kg	2.19E+02	7.60E-04	3.72E-04	5.11E-08
158	1	Surface	Chromium	mg/kg	6.07E+01	2.11E-04	1.03E-04	1.42E-08
158	1	Surface	Cobalt	mg/kg	1.62E+01	5.64E-05	2.76E-05	3.79E-09
158	1	Surface	Manganese	mg/kg	9.91E+02	3.44E-03	1.35E-03	2.31E-07
158	1	Surface	Mercury	mg/kg	1.05E+01	3.64E-05	1.78E-05	7.28E-05

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
158	1	Surface	Nickel	mg/kg	7.28E+01	2.53E-04	9.91E-05	1.70E-08
158	1	Surface	Thallium	mg/kg	3.12E-01	1.08E-06	5.31E-07	7.29E-11
158	1	Surface	Total PAH	mg/kg	3.69E-01	1.28E-06	1.63E-06	6.37E-09
158	1	Surface	Uranium	mg/kg	2.03E+01	7.06E-05	3.45E-05	4.74E-09
158	1	Surface	Uranium-235	pCi/g	1.63E-01	5.67E-07		3.81E-11
158	1	Surface	Uranium-238	pCi/g	3.79E+00	1.32E-05		8.85E-10
160	1	Surface	Antimony	mg/kg	6.80E-01	2.36E-06	1.16E-06	1.59E-10
160	1	Surface	Total PAH	mg/kg	5.29E-02	1.84E-07	2.34E-07	9.14E-10
163	1	Surface	Chromium	mg/kg	4.94E+01	1.72E-04	8.41E-05	1.15E-08
163	1	Surface	Total PAH	mg/kg	1.63E-01	5.67E-07	7.21E-07	2.82E-09
165	1	Surface	Antimony	mg/kg	2.20E+00	7.65E-06	3.74E-06	5.14E-10
165	1	Surface	Arsenic	mg/kg	6.35E+01	2.21E-04	6.48E-05	1.48E-08
165	1	Surface	Barium	mg/kg	5.84E+02	2.03E-03	9.94E-04	1.36E-07
165	1	Surface	Beryllium	mg/kg	6.82E-01	2.37E-06	1.62E-07	1.59E-10
165	1	Surface	Cesium-137	pCi/g	3.47E+00	1.21E-05		8.11E-10
165	1	Surface	Chromium	mg/kg	3.74E+01	1.30E-04	6.36E-05	8.73E-09
165	1	Surface	Mercury	mg/kg	3.78E-01	1.31E-06	6.43E-07	2.63E-06
165	1	Surface	Naphthalene	mg/kg	1.61E+00	5.60E-06	1.37E-05	1.25E-05
165	1	Surface	Neptunium-237	pCi/g	4.26E-01	1.48E-06		9.95E-11
165	1	Surface	Nickel	mg/kg	3.47E+01	1.21E-04	4.72E-05	8.10E-09
165	1	Surface	PCB, Total	mg/kg	8.27E+00	2.87E-05	3.94E-05	3.26E-06
165	1	Surface	Plutonium-239/240	pCi/g	2.81E+00	9.75E-06		6.55E-10
165	1	Surface	Silver	mg/kg	3.09E+01	1.07E-04	4.21E-05	7.22E-09
165	1	Surface	Thorium-230	pCi/g	6.02E+00	2.09E-05		1.41E-09
165	1	Surface	Total PAH	mg/kg	1.87E+00	6.49E-06	8.27E-06	3.23E-08
165	1	Surface	Uranium	mg/kg	1.08E+02	3.74E-04	1.83E-04	2.51E-08
165	1	Surface	Uranium-234	pCi/g	5.76E+01	2.00E-04		1.34E-08
165	1	Surface	Uranium-235	pCi/g	2.05E+00	7.11E-06		4.78E-10
165	1	Surface	Uranium-238	pCi/g	6.41E+01	2.23E-04		1.50E-08
169	1	Surface	Aluminum	mg/kg	1.42E+04	4.94E-02	2.42E-02	3.32E-06
169	1	Surface	Antimony	mg/kg	1.30E+00	4.52E-06	2.21E-06	3.04E-10
169	1	Surface	Arsenic	mg/kg	2.03E+01	7.06E-05	2.07E-05	4.74E-09
169	1	Surface	Beryllium	mg/kg	8.00E-01	2.78E-06	1.91E-07	1.87E-10
169	1	Surface	Chromium	mg/kg	2.15E+02	7.47E-04	3.66E-04	5.02E-08
169	1	Surface	Copper	mg/kg	3.74E+02	1.30E-03	6.37E-04	8.74E-08
169	1	Surface	Iron	mg/kg	4.16E+04	1.44E-01	7.07E-02	9.71E-06
169	1	Surface	Mercury	mg/kg	7.87E+00	2.74E-05	1.34E-05	5.48E-05
169	1	Surface	Nickel	mg/kg	5.49E+02	1.91E-03	7.47E-04	1.28E-07
169	1	Surface	PCB, Total	mg/kg	1.00E+01	3.48E-05	4.76E-05	3.94E-06
169	1	Surface	Thallium	mg/kg	4.60E-01	1.60E-06	7.83E-07	1.07E-10
169	1	Surface	Total PAH	mg/kg	4.59E+00	1.59E-05	2.03E-05	7.92E-08
169	1	Surface	Uranium	mg/kg	5.03E+01	1.75E-04	8.56E-05	1.18E-08
169	1	Surface	Uranium-234	pCi/g	6.55E+00	2.28E-05		1.53E-09
169	1	Surface	Uranium-235	pCi/g	4.60E-01	1.60E-06		1.07E-10
169	1	Surface	Uranium-238	pCi/g	8.12E+00	2.82E-05		1.90E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
170	1	Surface	Neptunium-237	pCi/g	1.15E-01	4.00E-07		2.69E-11
170	1	Surface	Uranium-238	pCi/g	1.53E+00	5.32E-06		3.57E-10
176	1	Surface	Arsenic	mg/kg	4.86E+01	1.69E-04	4.96E-05	1.13E-08
176	1	Surface	Chromium	mg/kg	4.27E+01	1.49E-04	7.27E-05	9.98E-09
176	1	Surface	Nickel	mg/kg	1.07E+02	3.72E-04	1.46E-04	2.50E-08
176	1	Surface	Uranium	mg/kg	2.21E+01	7.68E-05	3.76E-05	5.16E-09
180	1	Surface	Antimony	mg/kg	5.80E-01	2.02E-06	9.87E-07	1.35E-10
180	1	Surface	Arsenic	mg/kg	7.48E+01	2.60E-04	7.64E-05	1.75E-08
180	1	Surface	Chromium	mg/kg	5.54E+01	1.93E-04	9.43E-05	1.29E-08
180	1	Surface	Mercury	mg/kg	8.28E+00	2.88E-05	1.41E-05	5.76E-05
180	1	Surface	Nickel	mg/kg	8.77E+01	3.05E-04	1.19E-04	2.05E-08
180	2	Surface	Antimony	mg/kg	4.58E-01	1.59E-06	7.79E-07	1.07E-10
180	2	Surface	Arsenic	mg/kg	1.27E+01	4.40E-05	1.29E-05	2.95E-09
180	2	Surface	Chromium	mg/kg	4.46E+01	1.55E-04	7.59E-05	1.04E-08
180	2	Surface	Nickel	mg/kg	8.42E+01	2.93E-04	1.15E-04	1.97E-08
180	2	Surface	Total PAH	mg/kg	9.19E-02	3.19E-07	4.06E-07	1.59E-09
180	3	Surface	Arsenic	mg/kg	1.34E+01	4.64E-05	1.36E-05	3.12E-09
180	3	Surface	Chromium	mg/kg	4.69E+01	1.63E-04	7.99E-05	1.10E-08
180	3	Surface	Nickel	mg/kg	6.77E+01	2.35E-04	9.22E-05	1.58E-08
180	3	Surface	Silver	mg/kg	1.14E+01	3.96E-05	1.55E-05	2.66E-09
180	4	Surface	Arsenic	mg/kg	1.15E+01	4.01E-05	1.18E-05	2.69E-09
180	4	Surface	Barium	mg/kg	2.13E+02	7.40E-04	3.62E-04	4.98E-08
180	4	Surface	Beryllium	mg/kg	1.60E+00	5.56E-06	3.81E-07	3.74E-10
180	4	Surface	Chromium	mg/kg	6.00E+01	2.09E-04	1.02E-04	1.40E-08
180	4	Surface	Iron	mg/kg	1.54E+04	5.34E-02	2.62E-02	3.59E-06
180	4	Surface	Manganese	mg/kg	7.09E+02	2.46E-03	9.65E-04	1.66E-07
180	4	Surface	Nickel	mg/kg	6.46E+01	2.25E-04	8.80E-05	1.51E-08
180	4	Surface	Silver	mg/kg	9.68E+00	3.36E-05	1.32E-05	2.26E-09
180	4	Surface	Total PAH	mg/kg	2.15E-02	7.47E-08	9.51E-08	3.71E-10
180	4	Surface	Vanadium	mg/kg	4.85E+01	1.69E-04	4.29E-05	1.13E-08
181	1	Surface	Chromium	mg/kg	2.29E+01	7.94E-05	3.89E-05	5.34E-09
181	1	Surface	Thallium	mg/kg	3.50E+00	1.22E-05	5.96E-06	8.17E-10
181	1	Surface	Total PAH	mg/kg	3.43E-02	1.19E-07	1.52E-07	5.92E-10
194	1	Surface	Antimony	mg/kg	1.50E+00	5.21E-06	2.55E-06	3.50E-10
194	1	Surface	Chromium	mg/kg	3.87E+01	1.35E-04	6.59E-05	9.04E-09
194	1	Surface	Mercury	mg/kg	6.71E+00	2.33E-05	1.14E-05	4.67E-05
194	1	Surface	Nickel	mg/kg	5.84E+01	2.03E-04	7.95E-05	1.36E-08
194	1	Surface	Silver	mg/kg	1.09E+01	3.80E-05	1.49E-05	2.55E-09
194	2	Surface	Chromium	mg/kg	5.96E+01	2.07E-04	1.01E-04	1.39E-08
194	2	Surface	Silver	mg/kg	1.31E+01	4.56E-05	1.79E-05	3.07E-09
194	2	Surface	Uranium	mg/kg	2.28E+01	7.92E-05	3.88E-05	5.32E-09
194	2	Surface	Uranium-238	pCi/g	1.42E+00	4.94E-06		3.32E-10
194	3	Surface	Antimony	mg/kg	6.90E-01	2.40E-06	1.17E-06	1.61E-10
194	3	Surface	Arsenic	mg/kg	1.46E+01	5.09E-05	1.49E-05	3.42E-09
194	3	Surface	Chromium	mg/kg	3.90E+01	1.35E-04	6.63E-05	9.10E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	3	Surface	Nickel	mg/kg	6.40E+01	2.23E-04	8.72E-05	1.50E-08
194	3	Surface	Total PAH	mg/kg	3.93E-02	1.37E-07	1.74E-07	6.79E-10
194	3	Surface	Uranium-238	pCi/g	1.28E+00	4.46E-06		3.00E-10
194	4	Surface	Chromium	mg/kg	4.84E+01	1.68E-04	8.24E-05	1.13E-08
194	4	Surface	Mercury	mg/kg	8.92E+00	3.10E-05	1.52E-05	6.21E-05
194	4	Surface	Nickel	mg/kg	6.91E+01	2.40E-04	9.40E-05	1.61E-08
194	4	Surface	Silver	mg/kg	1.18E+01	4.09E-05	1.60E-05	2.75E-09
194	4	Surface	Total PAH	mg/kg	7.30E-02	2.54E-07	3.23E-07	1.26E-09
194	4	Surface	Uranium-238	pCi/g	1.73E+00	6.01E-06		4.04E-10
194	5	Surface	Chromium	mg/kg	4.58E+01	1.59E-04	7.79E-05	1.07E-08
194	5	Surface	Mercury	mg/kg	8.69E+00	3.02E-05	1.48E-05	6.05E-05
194	5	Surface	Nickel	mg/kg	7.54E+01	2.62E-04	1.03E-04	1.76E-08
194	5	Surface	Silver	mg/kg	1.25E+01	4.33E-05	1.69E-05	2.91E-09
194	5	Surface	Total PAH	mg/kg	2.37E-02	8.24E-08	1.05E-07	4.09E-10
194	5	Surface	Uranium-238	pCi/g	1.38E+00	4.80E-06		3.22E-10
194	6	Surface	Chromium	mg/kg	3.70E+01	1.29E-04	6.30E-05	8.64E-09
194	6	Surface	Manganese	mg/kg	1.08E+03	3.75E-03	1.47E-03	2.52E-07
194	6	Surface	Nickel	mg/kg	8.06E+01	2.80E-04	1.10E-04	1.88E-08
194	6	Surface	Silver	mg/kg	9.89E+00	3.44E-05	1.35E-05	2.31E-09
194	6	Surface	Uranium-238	pCi/g	1.32E+00	4.59E-06		3.08E-10
194	7	Surface	Chromium	mg/kg	5.32E+01	1.85E-04	9.05E-05	1.24E-08
194	7	Surface	Nickel	mg/kg	7.71E+01	2.68E-04	1.05E-04	1.80E-08
194	7	Surface	Silver	mg/kg	1.25E+01	4.34E-05	1.70E-05	2.92E-09
194	8	Surface	Chromium	mg/kg	5.36E+01	1.86E-04	9.12E-05	1.25E-08
194	8	Surface	Manganese	mg/kg	8.00E+02	2.78E-03	1.09E-03	1.87E-07
194	8	Surface	Total PAH	mg/kg	4.85E-01	1.69E-06	2.15E-06	8.38E-09
194	8	Surface	Uranium-238	pCi/g	1.39E+00	4.83E-06		3.25E-10
194	9	Surface	Arsenic	mg/kg	1.14E+01	3.97E-05	1.17E-05	2.67E-09
194	9	Surface	Chromium	mg/kg	5.17E+01	1.80E-04	8.79E-05	1.21E-08
194	10	Surface	Arsenic	mg/kg	1.22E+01	4.23E-05	1.24E-05	2.84E-09
194	10	Surface	Cesium-137	pCi/g	5.81E-01	2.02E-06		1.36E-10
194	10	Surface	Chromium	mg/kg	3.63E+01	1.26E-04	6.17E-05	8.48E-09
194	10	Surface	Nickel	mg/kg	7.60E+01	2.64E-04	1.03E-04	1.77E-08
194	10	Surface	Total PAH	mg/kg	2.57E-01	8.94E-07	1.14E-06	4.44E-09
194	10	Surface	Uranium-238	pCi/g	1.49E+00	5.18E-06		3.48E-10
194	11	Surface	Chromium	mg/kg	3.27E+01	1.14E-04	5.56E-05	7.63E-09
194	11	Surface	Mercury	mg/kg	8.09E+00	2.81E-05	1.38E-05	5.63E-05
194	11	Surface	Nickel	mg/kg	1.01E+02	3.50E-04	1.37E-04	2.35E-08
194	11	Surface	PCB, Total	mg/kg	8.40E-02	2.92E-07	4.00E-07	3.31E-08
194	11	Surface	Silver	mg/kg	1.33E+01	4.62E-05	1.81E-05	3.10E-09
194	11	Surface	Total PAH	mg/kg	7.95E-02	2.76E-07	3.52E-07	1.37E-09
194	12	Surface	Chromium	mg/kg	6.34E+01	2.20E-04	1.08E-04	1.48E-08
194	12	Surface	Nickel	mg/kg	7.86E+01	2.73E-04	1.07E-04	1.84E-08
194	12	Surface	Silver	mg/kg	1.20E+01	4.16E-05	1.63E-05	2.80E-09
194	12	Surface	Total PAH	mg/kg	8.91E-01	3.10E-06	3.94E-06	1.54E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	13	Surface	Chromium	mg/kg	4.77E+01	1.66E-04	8.11E-05	1.11E-08
194	13	Surface	Nickel	mg/kg	6.03E+01	2.10E-04	8.21E-05	1.41E-08
194	13	Surface	Total PAH	mg/kg	9.13E-02	3.17E-07	4.04E-07	1.58E-09
194	14	Surface	Chromium	mg/kg	5.21E+01	1.81E-04	8.87E-05	1.22E-08
194	14	Surface	Mercury	mg/kg	8.14E+00	2.83E-05	1.39E-05	5.67E-05
194	15	Surface	Chromium	mg/kg	5.33E+01	1.85E-04	9.07E-05	1.25E-08
194	15	Surface	Silver	mg/kg	1.03E+01	3.58E-05	1.40E-05	2.41E-09
194	16	Surface	Antimony	mg/kg	7.40E-01	2.57E-06	1.26E-06	1.73E-10
194	16	Surface	Arsenic	mg/kg	1.15E+01	4.00E-05	1.18E-05	2.69E-09
194	16	Surface	Beryllium	mg/kg	8.70E-01	3.02E-06	2.07E-07	2.03E-10
194	16	Surface	Chromium	mg/kg	5.32E+01	1.85E-04	9.06E-05	1.24E-08
194	16	Surface	Nickel	mg/kg	7.20E+01	2.50E-04	9.81E-05	1.68E-08
194	16	Surface	Thallium	mg/kg	6.30E-01	2.19E-06	1.07E-06	1.47E-10
194	16	Surface	Vanadium	mg/kg	4.11E+01	1.43E-04	3.64E-05	9.60E-09
194	17	Surface	Arsenic	mg/kg	1.16E+01	4.01E-05	1.18E-05	2.70E-09
194	17	Surface	Cadmium	mg/kg	1.10E+00	3.82E-06	3.74E-08	2.57E-10
194	17	Surface	Chromium	mg/kg	4.65E+01	1.62E-04	7.91E-05	1.09E-08
194	17	Surface	Total PAH	mg/kg	1.59E-01	5.51E-07	7.02E-07	2.74E-09
194	18	Surface	Arsenic	mg/kg	1.06E+01	3.67E-05	1.08E-05	2.47E-09
194	18	Surface	Beryllium	mg/kg	7.40E-01	2.57E-06	1.76E-07	1.73E-10
194	18	Surface	Chromium	mg/kg	6.85E+01	2.38E-04	1.17E-04	1.60E-08
194	18	Surface	Nickel	mg/kg	5.78E+01	2.01E-04	7.87E-05	1.35E-08
194	19	Surface	Arsenic	mg/kg	1.07E+01	3.72E-05	1.09E-05	2.50E-09
194	19	Surface	Chromium	mg/kg	4.84E+01	1.68E-04	8.23E-05	1.13E-08
194	19	Surface	Nickel	mg/kg	5.84E+01	2.03E-04	7.95E-05	1.36E-08
194	20	Surface	Arsenic	mg/kg	1.18E+01	4.12E-05	1.21E-05	2.77E-09
194	20	Surface	Barium	mg/kg	3.26E+02	1.13E-03	5.55E-04	7.61E-08
194	20	Surface	Beryllium	mg/kg	1.10E+00	3.82E-06	2.62E-07	2.57E-10
194	20	Surface	Chromium	mg/kg	5.24E+01	1.82E-04	8.91E-05	1.22E-08
194	20	Surface	Cobalt	mg/kg	2.11E+01	7.33E-05	3.59E-05	4.93E-09
194	20	Surface	Manganese	mg/kg	2.29E+03	7.97E-03	3.12E-03	5.36E-07
194	20	Surface	Mercury	mg/kg	7.28E+00	2.53E-05	1.24E-05	5.07E-05
194	20	Surface	Nickel	mg/kg	6.57E+01	2.28E-04	8.94E-05	1.53E-08
194	20	Surface	Silver	mg/kg	1.22E+01	4.25E-05	1.66E-05	2.85E-09
194	20	Surface	Total PAH	mg/kg	3.10E-02	1.08E-07	1.37E-07	5.35E-10
194	20	Surface	Vanadium	mg/kg	3.81E+01	1.32E-04	3.37E-05	8.90E-09
194	21	Surface	Antimony	mg/kg	9.30E-01	3.23E-06	1.58E-06	2.17E-10
194	21	Surface	Chromium	mg/kg	5.51E+01	1.91E-04	9.37E-05	1.29E-08
194	21	Surface	Mercury	mg/kg	6.62E+00	2.30E-05	1.13E-05	4.61E-05
194	21	Surface	Nickel	mg/kg	7.01E+01	2.44E-04	9.55E-05	1.64E-08
194	21	Surface	Thallium	mg/kg	6.40E-01	2.22E-06	1.09E-06	1.49E-10
194	22	Surface	Chromium	mg/kg	4.90E+01	1.70E-04	8.33E-05	1.14E-08
194	22	Surface	Manganese	mg/kg	8.19E+02	2.85E-03	1.12E-03	1.91E-07
194	22	Surface	PCB, Total	mg/kg	1.09E+01	3.80E-05	5.20E-05	4.30E-06
194	23	Surface	Arsenic	mg/kg	1.16E+01	4.01E-05	1.18E-05	2.70E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	23	Surface	Chromium	mg/kg	6.60E+01	2.29E-04	1.12E-04	1.54E-08
194	23	Surface	Iron	mg/kg	1.83E+04	6.35E-02	3.11E-02	4.27E-06
194	23	Surface	Nickel	mg/kg	8.77E+01	3.05E-04	1.19E-04	2.05E-08
194	23	Surface	Silver	mg/kg	1.15E+01	3.99E-05	1.56E-05	2.68E-09
194	24	Surface	Chromium	mg/kg	5.02E+01	1.75E-04	8.54E-05	1.17E-08
194	24	Surface	Nickel	mg/kg	7.08E+01	2.46E-04	9.63E-05	1.65E-08
194	24	Surface	Total PAH	mg/kg	2.28E-02	7.92E-08	1.01E-07	3.94E-10
194	25	Surface	Barium	mg/kg	3.00E+02	1.04E-03	5.10E-04	7.01E-08
194	25	Surface	Chromium	mg/kg	6.13E+01	2.13E-04	1.04E-04	1.43E-08
194	25	Surface	Manganese	mg/kg	9.96E+02	3.46E-03	1.36E-03	2.33E-07
194	25	Surface	Nickel	mg/kg	6.33E+01	2.20E-04	8.62E-05	1.48E-08
194	25	Surface	Total PAH	mg/kg	2.06E-02	7.16E-08	9.11E-08	3.56E-10
194	26	Surface	Beryllium	mg/kg	7.00E-01	2.43E-06	1.67E-07	1.63E-10
194	26	Surface	Chromium	mg/kg	4.18E+01	1.45E-04	7.12E-05	9.77E-09
194	26	Surface	Silver	mg/kg	1.03E+01	3.57E-05	1.40E-05	2.40E-09
194	26	Surface	Thallium	mg/kg	3.90E-01	1.36E-06	6.64E-07	9.11E-11
194	27	Surface	Chromium	mg/kg	5.22E+01	1.81E-04	8.88E-05	1.22E-08
194	27	Surface	Nickel	mg/kg	6.55E+01	2.28E-04	8.92E-05	1.53E-08
194	27	Surface	Silver	mg/kg	1.01E+01	3.52E-05	1.38E-05	2.36E-09
194	28	Surface	Arsenic	mg/kg	1.20E+01	4.18E-05	1.23E-05	2.81E-09
194	28	Surface	Beryllium	mg/kg	7.10E-01	2.47E-06	1.69E-07	1.66E-10
194	28	Surface	Chromium	mg/kg	6.07E+01	2.11E-04	1.03E-04	1.42E-08
194	28	Surface	Manganese	mg/kg	1.14E+03	3.96E-03	1.55E-03	2.66E-07
194	28	Surface	Nickel	mg/kg	6.95E+01	2.41E-04	9.45E-05	1.62E-08
194	28	Surface	Silver	mg/kg	1.08E+01	3.75E-05	1.47E-05	2.52E-09
194	28	Surface	Vanadium	mg/kg	4.06E+01	1.41E-04	3.59E-05	9.48E-09
194	29	Surface	Antimony	mg/kg	7.10E-01	2.47E-06	1.21E-06	1.66E-10
194	29	Surface	Chromium	mg/kg	5.06E+01	1.76E-04	8.60E-05	1.18E-08
194	29	Surface	Nickel	mg/kg	6.51E+01	2.26E-04	8.86E-05	1.52E-08
194	29	Surface	Silver	mg/kg	9.77E+00	3.40E-05	1.33E-05	2.28E-09
194	30	Surface	Chromium	mg/kg	5.66E+01	1.97E-04	9.63E-05	1.32E-08
194	30	Surface	Mercury	mg/kg	8.80E+00	3.06E-05	1.50E-05	6.13E-05
194	30	Surface	Nickel	mg/kg	6.99E+01	2.43E-04	9.51E-05	1.63E-08
194	30	Surface	Silver	mg/kg	9.76E+00	3.39E-05	1.33E-05	2.28E-09
194	31	Surface	Cesium-137	pCi/g	5.70E-01	1.98E-06		1.33E-10
194	31	Surface	Uranium-238	pCi/g	1.72E+00	5.98E-06		4.02E-10
195	1	Surface	Chromium	mg/kg	6.33E+01	2.20E-04	1.08E-04	1.48E-08
195	1	Surface	Nickel	mg/kg	7.02E+01	2.44E-04	9.56E-05	1.64E-08
195	1	Surface	Silver	mg/kg	9.37E+00	3.26E-05	1.28E-05	2.19E-09
195	2	Surface	Chromium	mg/kg	4.52E+01	1.57E-04	7.69E-05	1.06E-08
195	2	Surface	Silver	mg/kg	9.48E+00	3.29E-05	1.29E-05	2.21E-09
195	2	Surface	Total PAH	mg/kg	2.68E-02	9.31E-08	1.19E-07	4.63E-10
195	3	Surface	Chromium	mg/kg	5.03E+01	1.75E-04	8.56E-05	1.17E-08
195	3	Surface	Nickel	mg/kg	5.22E+01	1.81E-04	7.10E-05	1.22E-08
195	3	Surface	Total PAH	mg/kg	4.06E-02	1.41E-07	1.80E-07	7.01E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
195	4	Surface	Chromium	mg/kg	5.29E+01	1.84E-04	9.00E-05	1.24E-08
195	4	Surface	Nickel	mg/kg	6.23E+01	2.16E-04	8.48E-05	1.45E-08
195	5	Surface	Chromium	mg/kg	5.74E+01	2.00E-04	9.77E-05	1.34E-08
195	5	Surface	Nickel	mg/kg	8.11E+01	2.82E-04	1.10E-04	1.89E-08
195	5	Surface	Total PAH	mg/kg	2.40E-02	8.34E-08	1.06E-07	4.14E-10
195	6	Surface	Chromium	mg/kg	4.45E+01	1.55E-04	7.58E-05	1.04E-08
195	6	Surface	Nickel	mg/kg	8.71E+01	3.03E-04	1.19E-04	2.03E-08
195	6	Surface	Total PAH	mg/kg	2.48E-01	8.61E-07	1.10E-06	4.28E-09
195	7	Surface	Chromium	mg/kg	4.93E+01	1.71E-04	8.38E-05	1.15E-08
195	7	Surface	Silver	mg/kg	8.06E+00	2.80E-05	1.10E-05	1.88E-09
195	8	Surface	Arsenic	mg/kg	1.16E+01	4.02E-05	1.18E-05	2.70E-09
195	8	Surface	Beryllium	mg/kg	7.40E-01	2.57E-06	1.76E-07	1.73E-10
195	8	Surface	Chromium	mg/kg	6.79E+01	2.36E-04	1.16E-04	1.59E-08
195	8	Surface	Cobalt	mg/kg	1.82E+01	6.33E-05	3.10E-05	4.25E-09
195	8	Surface	Nickel	mg/kg	7.01E+01	2.44E-04	9.54E-05	1.64E-08
195	8	Surface	Total PAH	mg/kg	2.16E-01	7.49E-07	9.54E-07	3.72E-09
195	8	Surface	Vanadium	mg/kg	4.04E+01	1.40E-04	3.57E-05	9.44E-09
195	9	Surface	Chromium	mg/kg	6.08E+01	2.11E-04	1.03E-04	1.42E-08
195	9	Surface	Nickel	mg/kg	7.93E+01	2.76E-04	1.08E-04	1.85E-08
195	10	Surface	Chromium	mg/kg	4.51E+01	1.57E-04	7.67E-05	1.05E-08
195	10	Surface	Nickel	mg/kg	7.40E+01	2.57E-04	1.01E-04	1.73E-08
195	10	Surface	Silver	mg/kg	1.31E+01	4.56E-05	1.78E-05	3.06E-09
195	11	Surface	Aluminum	mg/kg	2.81E+04	9.77E-02	4.78E-02	6.56E-06
195	11	Surface	Arsenic	mg/kg	1.35E+01	4.68E-05	1.37E-05	3.14E-09
195	11	Surface	Barium	mg/kg	4.53E+02	1.57E-03	7.71E-04	1.06E-07
195	11	Surface	Chromium	mg/kg	5.05E+01	1.76E-04	8.59E-05	1.18E-08
195	11	Surface	Cobalt	mg/kg	2.77E+01	9.63E-05	4.71E-05	6.47E-09
195	11	Surface	Iron	mg/kg	1.97E+04	6.85E-02	3.35E-02	4.60E-06
195	11	Surface	Nickel	mg/kg	6.77E+01	2.35E-04	9.21E-05	1.58E-08
195	11	Surface	Thallium	mg/kg	6.60E-01	2.29E-06	1.12E-06	1.54E-10
195	11	Surface	Vanadium	mg/kg	7.97E+01	2.77E-04	7.05E-05	1.86E-08
195	12	Surface	Beryllium	mg/kg	7.50E-01	2.61E-06	1.79E-07	1.75E-10
195	12	Surface	Chromium	mg/kg	7.04E+01	2.45E-04	1.20E-04	1.64E-08
195	12	Surface	Nickel	mg/kg	6.78E+01	2.35E-04	9.22E-05	1.58E-08
195	13	Surface	Chromium	mg/kg	6.55E+01	2.28E-04	1.11E-04	1.53E-08
195	13	Surface	Nickel	mg/kg	6.91E+01	2.40E-04	9.40E-05	1.61E-08
195	14	Surface	Chromium	mg/kg	5.94E+01	2.07E-04	1.01E-04	1.39E-08
195	14	Surface	Nickel	mg/kg	7.04E+01	2.45E-04	9.58E-05	1.64E-08
195	15	Surface	Chromium	mg/kg	4.82E+01	1.67E-04	8.20E-05	1.13E-08
195	16	Surface	Chromium	mg/kg	4.45E+01	1.55E-04	7.57E-05	1.04E-08
195	16	Surface	Nickel	mg/kg	8.16E+01	2.83E-04	1.11E-04	1.91E-08
195	17	Surface	Chromium	mg/kg	8.22E+01	2.86E-04	1.40E-04	1.92E-08
195	17	Surface	Mercury	mg/kg	4.17E-01	1.45E-06	7.10E-07	2.90E-06
195	17	Surface	Nickel	mg/kg	5.93E+01	2.06E-04	8.08E-05	1.39E-08
195	17	Surface	PCB, Total	mg/kg	7.40E-01	2.57E-06	3.53E-06	2.91E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
195	17	Surface	Silver	mg/kg	1.01E+01	3.52E-05	1.38E-05	2.37E-09
195	17	Surface	Thallium	mg/kg	5.40E-01	1.88E-06	9.19E-07	1.26E-10
195	17	Surface	Total PAH	mg/kg	3.16E-01	1.10E-06	1.40E-06	5.46E-09
195	17	Surface	Uranium-235	pCi/g	1.32E-01	4.59E-07		3.08E-11
195	17	Surface	Uranium-238	pCi/g	2.48E+00	8.62E-06		5.79E-10
196	1	Surface	Antimony	mg/kg	5.90E-01	2.05E-06	1.00E-06	1.38E-10
196	1	Surface	Chromium	mg/kg	1.96E+01	6.81E-05	3.34E-05	4.58E-09
196	1	Surface	Neptunium-237	pCi/g	3.11E-01	1.08E-06		7.26E-11
196	1	Surface	Nickel	mg/kg	5.56E+02	1.93E-03	7.57E-04	1.30E-07
196	1	Surface	Uranium	mg/kg	2.33E+01	8.10E-05	3.96E-05	5.44E-09
196	1	Surface	Uranium-238	pCi/g	1.54E+00	5.35E-06		3.60E-10
196	2	Surface	Barium	mg/kg	2.02E+02	7.02E-04	3.44E-04	4.72E-08
196	2	Surface	Cadmium	mg/kg	2.53E+00	8.79E-06	8.61E-08	5.91E-10
196	2	Surface	Chromium	mg/kg	2.07E+01	7.19E-05	3.52E-05	4.83E-09
196	2	Surface	Nickel	mg/kg	7.36E+01	2.56E-04	1.00E-04	1.72E-08
196	2	Surface	PCB, Total	mg/kg	1.51E+00	5.25E-06	7.19E-06	5.95E-07
196	2	Surface	Total PAH	mg/kg	6.80E-01	2.36E-06	3.01E-06	1.17E-08
196	2	Surface	Uranium-238	pCi/g	2.21E+00	7.68E-06		5.16E-10
200	1	Surface	Antimony	mg/kg	5.60E-01	1.95E-06	9.53E-07	1.31E-10
200	1	Surface	Cesium-137	pCi/g	5.74E-01	1.99E-06		1.34E-10
200	1	Surface	Chromium	mg/kg	5.75E+01	2.00E-04	9.79E-05	1.34E-08
200	1	Surface	Mercury	mg/kg	6.71E+00	2.33E-05	1.14E-05	4.67E-05
200	1	Surface	Nickel	mg/kg	1.28E+02	4.45E-04	1.74E-04	2.99E-08
200	1	Surface	PCB, Total	mg/kg	2.60E+00	9.04E-06	1.24E-05	1.02E-06
200	1	Surface	Total PAH	mg/kg	2.84E-02	9.87E-08	1.26E-07	4.90E-10
200	1	Surface	Uranium	mg/kg	2.73E+01	9.49E-05	4.65E-05	6.38E-09
200	1	Surface	Uranium-235	pCi/g	1.43E-01	4.97E-07		3.34E-11
200	1	Surface	Uranium-238	pCi/g	3.58E+00	1.24E-05		8.35E-10
204	1	Surface	Aluminum	mg/kg	1.48E+04	5.14E-02	2.52E-02	3.46E-06
204	1	Surface	Beryllium	mg/kg	1.36E+00	4.73E-06	3.24E-07	3.18E-10
204	1	Surface	Cadmium	mg/kg	2.73E+00	9.49E-06	9.29E-08	6.38E-10
204	1	Surface	Chromium	mg/kg	7.40E+01	2.57E-04	1.26E-04	1.73E-08
204	1	Surface	Iron	mg/kg	4.19E+04	1.46E-01	7.13E-02	9.79E-06
204	1	Surface	PCB, Total	mg/kg	2.53E+00	8.79E-06	1.21E-05	9.96E-07
204	1	Surface	Uranium-235	pCi/g	1.80E-01	6.26E-07		4.20E-11
204	1	Surface	Uranium-238	pCi/g	5.20E+00	1.81E-05		1.21E-09
204	1	Surface	Vanadium	mg/kg	7.55E+01	2.62E-04	6.68E-05	1.76E-08
204	2	Surface	Aluminum	mg/kg	1.37E+04	4.76E-02	2.33E-02	3.20E-06
204	2	Surface	Chromium	mg/kg	1.80E+01	6.26E-05	3.06E-05	4.20E-09
204	2	Surface	PCB, Total	mg/kg	1.70E-01	5.91E-07	8.10E-07	6.69E-08
204	3	Surface	Chromium	mg/kg	2.06E+01	7.16E-05	3.51E-05	4.81E-09
204	3	Surface	Uranium-238	pCi/g	2.50E+00	8.69E-06		5.84E-10
204	4	Surface	Antimony	mg/kg	1.10E+00	3.82E-06	1.87E-06	2.57E-10
204	4	Surface	Chromium	mg/kg	2.89E+01	1.00E-04	4.92E-05	6.75E-09
204	4	Surface	Uranium-235	pCi/g	1.88E-01	6.53E-07		4.39E-11

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
204	4	Surface	Uranium-238	pCi/g	9.72E+00	3.38E-05		2.27E-09
204	18	Surface	Cesium-137	pCi/g	6.30E-01	2.19E-06		1.47E-10
204	18	Surface	Uranium	mg/kg	1.60E+01	5.56E-05	2.72E-05	3.74E-09
204	18	Surface	Uranium-235	pCi/g	1.25E-01	4.34E-07		2.92E-11
204	18	Surface	Uranium-238	pCi/g	5.37E+00	1.87E-05		1.25E-09
204	23	Surface	Americium-241	pCi/g	3.71E+00	1.29E-05		8.66E-10
204	23	Surface	Beryllium	mg/kg	1.33E+00	4.62E-06	3.17E-07	3.11E-10
204	23	Surface	Cesium-137	pCi/g	1.17E+00	4.07E-06		2.74E-10
204	23	Surface	Chromium	mg/kg	1.75E+02	6.08E-04	2.98E-04	4.09E-08
204	23	Surface	Cobalt-60	pCi/g	1.23E-02	4.26E-08		2.86E-12
204	23	Surface	PCB, Total	mg/kg	7.90E+01	2.75E-04	3.76E-04	3.11E-05
204	23	Surface	Uranium	mg/kg	1.31E+04	4.54E-02	2.22E-02	3.05E-06
204	23	Surface	Uranium-234	pCi/g	4.45E+02	1.55E-03		1.04E-07
204	23	Surface	Uranium-235	pCi/g	5.70E+01	1.98E-04		1.33E-08
204	23	Surface	Uranium-238	pCi/g	4.39E+03	1.52E-02		1.02E-06
211	1	Surface	Chromium	mg/kg	4.48E+01	1.56E-04	7.61E-05	1.05E-08
211	1	Surface	Neptunium-237	pCi/g	1.46E-01	5.07E-07		3.41E-11
211	1	Surface	PCB, Total	mg/kg	3.60E-01	1.25E-06	1.72E-06	1.42E-07
211	1	Surface	Total PAH	mg/kg	1.04E-01	3.61E-07	4.59E-07	1.79E-09
211	1	Surface	Uranium	mg/kg	2.19E+01	7.60E-05	3.72E-05	5.11E-09
211	1	Surface	Uranium-235	pCi/g	2.12E-01	7.37E-07		4.95E-11
211	1	Surface	Uranium-238	pCi/g	5.84E+00	2.03E-05		1.36E-09
212	1	Surface	Arsenic	mg/kg	1.44E+01	5.01E-05	1.47E-05	3.37E-09
212	1	Surface	Beryllium	mg/kg	8.10E-01	2.82E-06	1.93E-07	1.89E-10
212	1	Surface	Cesium-137	pCi/g	6.01E-01	2.09E-06		1.40E-10
212	1	Surface	Chromium	mg/kg	3.58E+01	1.24E-04	6.09E-05	8.36E-09
212	1	Surface	Cobalt-60	pCi/g	8.76E-03	3.04E-08		2.05E-12
212	1	Surface	Iron	mg/kg	4.14E+04	1.44E-01	7.04E-02	9.67E-06
212	1	Surface	Neptunium-237	pCi/g	4.00E+00	1.39E-05		9.34E-10
212	1	Surface	Nickel	mg/kg	8.69E+01	3.02E-04	1.18E-04	2.03E-08
212	1	Surface	PCB, Total	mg/kg	1.80E-01	6.26E-07	8.58E-07	7.09E-08
212	1	Surface	Plutonium-239/240	pCi/g	6.71E+00	2.33E-05		1.57E-09
212	1	Surface	Thorium-230	pCi/g	2.60E+02	9.04E-04		6.07E-08
212	1	Surface	Uranium	mg/kg	2.30E+01	7.99E-05	3.91E-05	5.37E-09
212	1	Surface	Uranium-235	pCi/g	2.09E-01	7.26E-07		4.88E-11
212	1	Surface	Uranium-238	pCi/g	3.17E+00	1.10E-05		7.40E-10
213	1	Surface	Antimony	mg/kg	8.50E-01	2.95E-06	1.45E-06	1.99E-10
213	1	Surface	Chromium	mg/kg	4.78E+01	1.66E-04	8.14E-05	1.12E-08
213	1	Surface	Nickel	mg/kg	6.67E+01	2.32E-04	9.08E-05	1.56E-08
213	1	Surface	PCB, Total	mg/kg	7.30E-02	2.54E-07	3.48E-07	2.87E-08
213	1	Surface	Silver	mg/kg	1.32E+01	4.58E-05	1.79E-05	3.08E-09
213	1	Surface	Total PAH	mg/kg	1.72E-01	5.97E-07	7.60E-07	2.97E-09
213	1	Surface	Uranium-238	pCi/g	2.33E+00	8.10E-06		5.44E-10
213	2	Surface	Chromium	mg/kg	4.48E+01	1.56E-04	7.62E-05	1.05E-08
213	2	Surface	Nickel	mg/kg	9.10E+01	3.16E-04	1.24E-04	2.13E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
213	2	Surface	Silver	mg/kg	1.13E+01	3.91E-05	1.53E-05	2.63E-09
214	1	Surface	Antimony	mg/kg	5.70E-01	1.98E-06	9.70E-07	1.33E-10
215	1	Surface	Antimony	mg/kg	6.80E-01	2.36E-06	1.16E-06	1.59E-10
215	1	Surface	Chromium	mg/kg	5.73E+01	1.99E-04	9.75E-05	1.34E-08
215	1	Surface	Iron	mg/kg	3.87E+04	1.34E-01	6.58E-02	9.04E-06
215	1	Surface	Nickel	mg/kg	7.32E+01	2.54E-04	9.96E-05	1.71E-08
215	1	Surface	Total PAH	mg/kg	8.09E-02	2.81E-07	3.58E-07	1.40E-09
216	1	Surface	Chromium	mg/kg	2.38E+01	8.27E-05	4.05E-05	5.56E-09
216	1	Surface	Total PAH	mg/kg	1.49E-01	5.19E-07	6.61E-07	2.58E-09
216	1	Surface	Uranium-238	pCi/g	1.33E+00	4.62E-06		3.11E-10
217	1	Surface	Chromium	mg/kg	8.58E+01	2.98E-04	1.46E-04	2.00E-08
217	1	Surface	Cobalt	mg/kg	1.96E+01	6.80E-05	3.33E-05	4.57E-09
217	1	Surface	Manganese	mg/kg	7.70E+02	2.68E-03	1.05E-03	1.80E-07
217	1	Surface	Nickel	mg/kg	8.54E+01	2.97E-04	1.16E-04	2.00E-08
217	1	Surface	Silver	mg/kg	1.35E+01	4.67E-05	1.83E-05	3.14E-09
217	1	Surface	Uranium-238	pCi/g	1.15E+00	4.01E-06		2.70E-10
217	2	Surface	Antimony	mg/kg	1.70E+00	5.91E-06	2.89E-06	3.97E-10
217	2	Surface	Arsenic	mg/kg	1.12E+01	3.88E-05	1.14E-05	2.61E-09
217	2	Surface	Chromium	mg/kg	1.02E+02	3.53E-04	1.73E-04	2.37E-08
217	2	Surface	Cobalt	mg/kg	1.74E+01	6.05E-05	2.96E-05	4.06E-09
217	2	Surface	Iron	mg/kg	3.09E+04	1.07E-01	5.26E-02	7.22E-06
217	2	Surface	Manganese	mg/kg	8.44E+02	2.93E-03	1.15E-03	1.97E-07
217	2	Surface	Mercury	mg/kg	8.59E+00	2.99E-05	1.46E-05	5.98E-05
217	2	Surface	Nickel	mg/kg	9.74E+01	3.38E-04	1.33E-04	2.27E-08
217	2	Surface	Silver	mg/kg	1.61E+01	5.59E-05	2.19E-05	3.76E-09
217	2	Surface	Total PAH	mg/kg	5.05E-01	1.76E-06	2.23E-06	8.72E-09
219	1	Surface	Neptunium-237	pCi/g	3.31E-01	1.15E-06		7.73E-11
219	1	Surface	Nickel	mg/kg	6.71E+01	2.33E-04	9.14E-05	1.57E-08
219	1	Surface	Total PAH	mg/kg	7.50E-02	2.61E-07	3.32E-07	1.30E-09
219	1	Surface	Uranium-235	pCi/g	1.92E-01	6.67E-07		4.48E-11
219	1	Surface	Uranium-238	pCi/g	4.40E+00	1.53E-05		1.03E-09
221	1	Surface	Barium	mg/kg	2.21E+02	7.68E-04	3.76E-04	5.16E-08
221	1	Surface	Chromium	mg/kg	7.01E+01	2.44E-04	1.19E-04	1.64E-08
221	1	Surface	Iron	mg/kg	1.90E+04	6.60E-02	3.23E-02	4.43E-06
221	1	Surface	Nickel	mg/kg	7.93E+01	2.75E-04	1.08E-04	1.85E-08
221	1	Surface	PCB, Total	mg/kg	5.00E-01	1.74E-06	2.38E-06	1.97E-07
221	1	Surface	Total PAH	mg/kg	1.02E+00	3.55E-06	4.52E-06	1.77E-08
221	1	Surface	Uranium	mg/kg	1.64E+01	5.68E-05	2.78E-05	3.82E-09
221	1	Surface	Uranium-238	pCi/g	1.93E+00	6.71E-06		4.51E-10
222	1	Surface	Chromium	mg/kg	4.73E+01	1.64E-04	8.05E-05	1.11E-08
222	1	Surface	Nickel	mg/kg	9.19E+01	3.19E-04	1.25E-04	2.15E-08
222	1	Surface	PCB, Total	mg/kg	1.40E+00	4.87E-06	6.67E-06	5.51E-07
222	1	Surface	Total PAH	mg/kg	1.77E-01	6.16E-07	7.84E-07	3.06E-09
222	1	Surface	Uranium	mg/kg	2.80E+01	9.72E-05	4.76E-05	6.54E-09
222	1	Surface	Uranium-234	pCi/g	1.04E+01	3.61E-05		2.43E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
222	1	Surface	Uranium-235	pCi/g	7.10E-01	2.47E-06		1.66E-10
222	1	Surface	Uranium-238	pCi/g	1.96E+01	6.81E-05		4.58E-09
224	1	Surface	Chromium	mg/kg	4.49E+01	1.56E-04	7.64E-05	1.05E-08
224	1	Surface	PCB, Total	mg/kg	4.75E+02	1.65E-03	2.26E-03	1.87E-04
224	1	Surface	Total PAH	mg/kg	4.53E+01	1.57E-04	2.00E-04	7.82E-07
224	1	Surface	Uranium	mg/kg	4.15E+01	1.44E-04	7.06E-05	9.69E-09
224	1	Surface	Uranium-235	pCi/g	2.50E-01	8.69E-07		5.84E-11
224	1	Surface	Uranium-238	pCi/g	2.64E+01	9.18E-05		6.17E-09
225	1	Surface	Chromium	mg/kg	2.55E+01	8.86E-05	4.34E-05	5.96E-09
225	1	Surface	Total PAH	mg/kg	7.79E-02	2.71E-07	3.44E-07	1.34E-09
225	1	Surface	Uranium-238	pCi/g	2.04E+00	7.09E-06		4.76E-10
226	1	Surface	Americium-241	pCi/g	1.62E+00	5.64E-06		3.79E-10
226	1	Surface	Antimony	mg/kg	6.60E-01	2.29E-06	1.12E-06	1.54E-10
226	1	Surface	Cesium-137	pCi/g	2.65E+00	9.21E-06		6.19E-10
226	1	Surface	Chromium	mg/kg	4.25E+01	1.48E-04	7.24E-05	9.93E-09
226	1	Surface	Cobalt-60	pCi/g	3.14E-03	1.09E-08		7.33E-13
226	1	Surface	Manganese	mg/kg	6.30E+02	2.19E-03	8.58E-04	1.47E-07
226	1	Surface	Mercury	mg/kg	9.74E+00	3.39E-05	1.66E-05	6.78E-05
226	1	Surface	Neptunium-237	pCi/g	1.60E+02	5.56E-04		3.74E-08
226	1	Surface	Nickel	mg/kg	2.10E+02	7.28E-04	2.85E-04	4.90E-08
226	1	Surface	PCB, Total	mg/kg	1.49E+00	5.18E-06	7.10E-06	5.87E-07
226	1	Surface	Plutonium-238	pCi/g	2.13E+00	7.41E-06		4.98E-10
226	1	Surface	Plutonium-239/240	pCi/g	6.52E+00	2.27E-05		1.52E-09
226	1	Surface	Technetium-99	pCi/g	4.96E+01	1.72E-04		1.16E-08
226	1	Surface	Thorium-230	pCi/g	4.77E+01	1.66E-04		1.11E-08
226	1	Surface	Total PAH	mg/kg	9.19E-02	3.19E-07	4.06E-07	1.59E-09
226	1	Surface	Uranium	mg/kg	4.01E+02	1.39E-03	6.82E-04	9.37E-08
226	1	Surface	Uranium-234	pCi/g	2.29E+01	7.97E-05		5.36E-09
226	1	Surface	Uranium-235	pCi/g	1.10E+00	3.83E-06		2.57E-10
226	1	Surface	Uranium-238	pCi/g	2.40E+01	8.34E-05		5.61E-09
227	1	Surface	Beryllium	mg/kg	5.52E-01	1.92E-06	1.31E-07	1.29E-10
227	1	Surface	Cesium-137	pCi/g	1.90E-01	6.60E-07		4.44E-11
227	1	Surface	Chromium	mg/kg	4.71E+01	1.64E-04	8.02E-05	1.10E-08
227	1	Surface	Cobalt-60	pCi/g	1.53E-02	5.32E-08		3.57E-12
227	1	Surface	Neptunium-237	pCi/g	9.05E-01	3.15E-06		2.11E-10
227	1	Surface	Nickel	mg/kg	2.03E+02	7.06E-04	2.76E-04	4.74E-08
227	1	Surface	PCB, Total	mg/kg	4.14E+00	1.44E-05	1.97E-05	1.63E-06
227	1	Surface	Technetium-99	pCi/g	4.77E+01	1.66E-04		1.11E-08
227	1	Surface	Total PAH	mg/kg	3.38E-01	1.17E-06	1.49E-06	5.83E-09
227	1	Surface	Uranium	mg/kg	1.02E+02	3.53E-04	1.73E-04	2.37E-08
227	1	Surface	Uranium-234	pCi/g	1.54E+01	5.37E-05		3.61E-09
227	1	Surface	Uranium-235	pCi/g	1.49E+00	5.18E-06		3.48E-10
227	1	Surface	Uranium-238	pCi/g	4.63E+01	1.61E-04		1.08E-08
227	2	Surface	Beryllium	mg/kg	5.32E-01	1.85E-06	1.27E-07	1.24E-10
227	2	Surface	Chromium	mg/kg	5.63E+01	1.96E-04	9.58E-05	1.32E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
227	2	Surface	Cobalt	mg/kg	8.99E+00	3.12E-05	1.53E-05	2.10E-09
227	2	Surface	Cobalt-60	pCi/g	1.37E-02	4.76E-08		3.20E-12
227	2	Surface	Mercury	mg/kg	8.41E+00	2.92E-05	1.43E-05	5.86E-05
227	2	Surface	Nickel	mg/kg	1.25E+02	4.34E-04	1.70E-04	2.92E-08
227	2	Surface	PCB, Total	mg/kg	5.82E+00	2.02E-05	2.77E-05	2.29E-06
227	2	Surface	Total PAH	mg/kg	1.16E-01	4.02E-07	5.12E-07	2.00E-09
227	2	Surface	Uranium	mg/kg	1.51E+01	5.23E-05	2.56E-05	3.52E-09
227	2	Surface	Uranium-238	pCi/g	1.57E+00	5.47E-06		3.67E-10
228	1	Surface	Antimony	mg/kg	6.30E-01	2.19E-06	1.07E-06	1.47E-10
228	1	Surface	Cadmium	mg/kg	3.90E+00	1.36E-05	1.33E-07	9.11E-10
228	1	Surface	Chromium	mg/kg	1.89E+02	6.57E-04	3.21E-04	4.41E-08
228	1	Surface	Mercury	mg/kg	9.37E+00	3.26E-05	1.59E-05	6.52E-05
228	1	Surface	Neptunium-237	pCi/g	8.00E-01	2.78E-06		1.87E-10
228	1	Surface	Nickel	mg/kg	7.92E+01	2.75E-04	1.08E-04	1.85E-08
228	1	Surface	Silver	mg/kg	1.16E+01	4.04E-05	1.58E-05	2.72E-09
228	1	Surface	Total PAH	mg/kg	6.69E-02	2.32E-07	2.96E-07	1.15E-09
228	1	Surface	Uranium	mg/kg	1.51E+01	5.26E-05	2.57E-05	3.53E-09
228	1	Surface	Uranium-235	pCi/g	1.78E-01	6.19E-07		4.16E-11
228	1	Surface	Uranium-238	pCi/g	3.77E+00	1.31E-05		8.81E-10
229	1	Surface	Nickel	mg/kg	9.14E+01	3.18E-04	1.24E-04	2.13E-08
229	1	Surface	Total PAH	mg/kg	1.57E-01	5.45E-07	6.94E-07	2.71E-09
229	1	Surface	Uranium	mg/kg	1.56E+02	5.42E-04	2.65E-04	3.64E-08
229	1	Surface	Uranium-238	pCi/g	2.86E+00	9.94E-06		6.68E-10
229	2	Surface	Arsenic	mg/kg	2.12E+01	7.37E-05	2.16E-05	4.95E-09
229	2	Surface	Beryllium	mg/kg	7.90E-01	2.75E-06	1.88E-07	1.85E-10
229	2	Surface	Chromium	mg/kg	2.91E+01	1.01E-04	4.96E-05	6.81E-09
229	2	Surface	Neptunium-237	pCi/g	2.87E-01	9.97E-07		6.70E-11
229	2	Surface	Nickel	mg/kg	9.93E+01	3.45E-04	1.35E-04	2.32E-08
229	2	Surface	Total PAH	mg/kg	1.69E+00	5.89E-06	7.50E-06	2.93E-08
229	2	Surface	Uranium	mg/kg	7.45E+01	2.59E-04	1.27E-04	1.74E-08
229	2	Surface	Uranium-234	pCi/g	1.22E+01	4.24E-05		2.85E-09
229	2	Surface	Uranium-235	pCi/g	8.40E-01	2.92E-06		1.96E-10
229	2	Surface	Uranium-238	pCi/g	2.49E+01	8.65E-05		5.82E-09
483	1	Surface	Nickel	mg/kg	1.17E+02	4.05E-04	1.59E-04	2.72E-08
483	1	Surface	Silver	mg/kg	1.12E+01	3.89E-05	1.52E-05	2.61E-09
483	1	Surface	Total PAH	mg/kg	2.39E-02	8.31E-08	1.06E-07	4.13E-10
486	1	Surface	Cesium-137	pCi/g				
487	1	Surface	Cesium-137	pCi/g				
488	1	Surface	Cesium-137	pCi/g	5.20E-01	1.81E-06		1.21E-10
488	1	Surface	PCB, Total	mg/kg	1.03E+01	3.58E-05	4.91E-05	4.06E-06
488	1	Surface	Total PAH	mg/kg	2.50E-01	8.68E-07	1.10E-06	4.31E-09
488	1	Surface	Uranium	mg/kg	1.48E+01	5.14E-05	2.52E-05	3.46E-09
488	1	Surface	Uranium-235	pCi/g	1.49E-01	5.18E-07		3.48E-11
488	1	Surface	Uranium-238	pCi/g	4.54E+00	1.58E-05		1.06E-09
489	1	Surface	Chromium	mg/kg	4.16E+01	1.45E-04	7.08E-05	9.72E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
489	1	Surface	Nickel	mg/kg	7.88E+01	2.74E-04	1.07E-04	1.84E-08
489	1	Surface	Total PAH	mg/kg	8.22E-02	2.86E-07	3.64E-07	1.42E-09
489	1	Surface	Uranium-238	pCi/g	1.47E+00	5.11E-06		3.43E-10
492	1	Surface	Arsenic	mg/kg	1.47E+01	5.11E-05	1.50E-05	3.43E-09
492	1	Surface	Beryllium	mg/kg	1.04E+01	3.61E-05	2.48E-06	2.43E-09
492	1	Surface	Cadmium	mg/kg	3.14E+00	1.09E-05	1.07E-07	7.33E-10
492	1	Surface	Chromium	mg/kg	1.04E+03	3.61E-03	1.77E-03	2.43E-07
492	1	Surface	Cobalt-60	pCi/g	9.63E-03	3.35E-08		2.25E-12
492	1	Surface	Neptunium-237	pCi/g	2.09E-01	7.26E-07		4.88E-11
492	1	Surface	PCB, Total	mg/kg	4.41E+01	1.53E-04	2.10E-04	1.74E-05
492	1	Surface	Uranium	mg/kg	1.77E+03	6.15E-03	3.01E-03	4.13E-07
492	1	Surface	Uranium-234	pCi/g	5.39E+01	1.87E-04		1.26E-08
492	1	Surface	Uranium-235	pCi/g	5.72E+00	1.99E-05		1.34E-09
492	1	Surface	Uranium-238	pCi/g	3.83E+02	1.33E-03		8.95E-08
492	1	Surface	Vanadium	mg/kg	4.32E+01	1.50E-04	3.82E-05	1.01E-08
493	1	Surface	Aluminum	mg/kg	1.44E+04	5.00E-02	2.45E-02	3.36E-06
493	1	Surface	Barium	mg/kg	4.04E+02	1.40E-03	6.87E-04	9.44E-08
493	1	Surface	Beryllium	mg/kg	9.91E-01	3.44E-06	2.36E-07	2.31E-10
493	1	Surface	Chromium	mg/kg	6.61E+01	2.30E-04	1.12E-04	1.54E-08
493	1	Surface	Cobalt	mg/kg	3.79E+01	1.32E-04	6.45E-05	8.85E-09
493	1	Surface	Cobalt-60	pCi/g	1.36E-02	4.73E-08		3.18E-12
493	1	Surface	Manganese	mg/kg	3.55E+03	1.23E-02	4.83E-03	8.29E-07
493	1	Surface	Mercury	mg/kg	2.60E-01	9.04E-07	4.42E-07	1.81E-06
493	1	Surface	Neptunium-237	pCi/g	1.22E-01	4.24E-07		2.85E-11
493	1	Surface	Nickel	mg/kg	2.13E+02	7.40E-04	2.90E-04	4.98E-08
493	1	Surface	PCB, Total	mg/kg	2.60E-01	9.04E-07	1.24E-06	1.02E-07
493	1	Surface	Total PAH	mg/kg	5.00E-01	1.74E-06	2.21E-06	8.64E-09
493	1	Surface	Uranium-235	pCi/g	1.65E-01	5.73E-07		3.85E-11
493	1	Surface	Uranium-238	pCi/g	5.50E+00	1.91E-05		1.28E-09
493	1	Surface	Vanadium	mg/kg	4.05E+01	1.41E-04	3.58E-05	9.46E-09
517	1	Surface	Beryllium	mg/kg	7.39E-01	2.57E-06	1.76E-07	1.73E-10
517	1	Surface	Chromium	mg/kg	4.91E+01	1.71E-04	8.35E-05	1.15E-08
517	1	Surface	Cobalt-60	pCi/g	6.39E-03	2.22E-08		1.49E-12
517	1	Surface	Neptunium-237	pCi/g	1.07E+00	3.72E-06		2.50E-10
517	1	Surface	Nickel	mg/kg	1.72E+02	5.98E-04	2.34E-04	4.02E-08
517	1	Surface	PCB, Total	mg/kg	5.00E-01	1.74E-06	2.38E-06	1.97E-07
517	1	Surface	Uranium-235	pCi/g	1.60E-01	5.56E-07		3.74E-11
517	1	Surface	Uranium-238	pCi/g	3.89E+00	1.35E-05		9.09E-10
518	1	Surface	Carbazole	mg/kg	1.17E+01	4.07E-05	3.99E-05	1.27E-06
518	1	Surface	Cobalt	mg/kg	6.80E+00	2.36E-05	1.16E-05	1.59E-09
518	1	Surface	Nickel	mg/kg	1.29E+01	4.47E-05	1.75E-05	3.00E-09
518	1	Surface	PCB, Total	mg/kg	6.30E-01	2.19E-06	3.00E-06	2.48E-07
518	1	Surface	Pyrene	mg/kg	3.94E+01	1.37E-04	1.74E-04	6.05E-06
518	1	Surface	Total PAH	mg/kg	4.64E+00	1.61E-05	2.05E-05	8.01E-08
518	1	Surface	Uranium	mg/kg	2.17E+02	7.54E-04	3.69E-04	5.07E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
518	1	Surface	Uranium-235	pCi/g	6.74E-02	2.34E-07		1.57E-11
518	1	Surface	Uranium-238	pCi/g	1.51E+00	5.26E-06		3.54E-10
520	1	Surface	Cesium-137	pCi/g	9.62E-01	3.34E-06		2.25E-10
520	1	Surface	Chromium	mg/kg	3.17E+01	1.10E-04	5.40E-05	7.41E-09
520	1	Surface	Iron	mg/kg	1.56E+04	5.42E-02	2.65E-02	3.64E-06
520	1	Surface	Mercury	mg/kg	1.07E+01	3.71E-05	1.82E-05	7.44E-05
520	1	Surface	Neptunium-237	pCi/g	6.56E-01	2.28E-06		1.53E-10
520	1	Surface	Nickel	mg/kg	2.60E+02	9.05E-04	3.54E-04	6.08E-08
520	1	Surface	Silver	mg/kg	1.30E+01	4.51E-05	1.77E-05	3.03E-09
520	1	Surface	Thorium-230	pCi/g	1.13E+01	3.94E-05		2.65E-09
520	1	Surface	Total PAH	mg/kg	3.18E-02	1.11E-07	1.41E-07	5.50E-10
520	1	Surface	Uranium	mg/kg	2.29E+01	7.97E-05	3.90E-05	5.36E-09
520	1	Surface	Uranium-235	pCi/g	1.26E-01	4.38E-07		2.94E-11
520	1	Surface	Uranium-238	pCi/g	3.93E+00	1.37E-05		9.18E-10
520	2	Surface	Beryllium	mg/kg	5.79E-01	2.01E-06	1.38E-07	1.35E-10
520	2	Surface	Chromium	mg/kg	6.67E+01	2.32E-04	1.13E-04	1.56E-08
520	2	Surface	Manganese	mg/kg	5.89E+02	2.05E-03	8.02E-04	1.38E-07
520	2	Surface	Mercury	mg/kg	1.19E+01	4.13E-05	2.02E-05	8.27E-05
520	2	Surface	Neptunium-237	pCi/g	7.48E-02	2.60E-07		1.75E-11
520	2	Surface	Nickel	mg/kg	3.11E+02	1.08E-03	4.23E-04	7.25E-08
520	2	Surface	Total PAH	mg/kg	3.17E-01	1.10E-06	1.40E-06	5.47E-09
520	2	Surface	Uranium	mg/kg	3.96E+01	1.37E-04	6.73E-05	9.24E-09
520	2	Surface	Uranium-238	pCi/g	1.78E+00	6.18E-06		4.15E-10
520	3	Surface	Chromium	mg/kg	3.97E+01	1.38E-04	6.75E-05	9.27E-09
520	3	Surface	Copper	mg/kg	1.19E+02	4.14E-04	2.02E-04	2.78E-08
520	3	Surface	Nickel	mg/kg	2.65E+02	9.20E-04	3.60E-04	6.18E-08
520	3	Surface	Silver	mg/kg	1.27E+01	4.40E-05	1.72E-05	2.96E-09
520	3	Surface	Total PAH	mg/kg	1.18E-01	4.10E-07	5.22E-07	2.04E-09
520	3	Surface	Uranium	mg/kg	1.92E+01	6.68E-05	3.27E-05	4.49E-09
520	3	Surface	Uranium-238	pCi/g	1.57E+00	5.46E-06		3.67E-10
520	4	Surface	Chromium	mg/kg	3.82E+01	1.33E-04	6.51E-05	8.93E-09
520	4	Surface	Copper	mg/kg	1.11E+02	3.84E-04	1.88E-04	2.58E-08
520	4	Surface	Mercury	mg/kg	9.69E+00	3.37E-05	1.65E-05	6.75E-05
520	4	Surface	Neptunium-237	pCi/g	7.40E-01	2.57E-06		1.73E-10
520	4	Surface	Nickel	mg/kg	2.82E+02	9.80E-04	3.84E-04	6.58E-08
520	4	Surface	Silver	mg/kg	1.04E+01	3.63E-05	1.42E-05	2.44E-09
520	4	Surface	Total PAH	mg/kg	5.52E-01	1.92E-06	2.44E-06	9.54E-09
520	4	Surface	Uranium	mg/kg	2.40E+01	8.35E-05	4.09E-05	5.61E-09
520	4	Surface	Uranium-235	pCi/g	2.42E-01	8.41E-07		5.65E-11
520	4	Surface	Uranium-238	pCi/g	6.26E+00	2.18E-05		1.46E-09
520	5	Surface	Antimony	mg/kg	9.60E-01	3.34E-06	1.63E-06	2.24E-10
520	5	Surface	Chromium	mg/kg	3.68E+01	1.28E-04	6.27E-05	8.60E-09
520	5	Surface	Neptunium-237	pCi/g	1.55E-01	5.39E-07		3.62E-11
520	5	Surface	Nickel	mg/kg	1.47E+02	5.11E-04	2.00E-04	3.43E-08
520	5	Surface	Total PAH	mg/kg	3.87E-01	1.35E-06	1.71E-06	6.69E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
520	5	Surface	Uranium-238	pCi/g	1.45E+00	5.04E-06		3.39E-10
531	1	Surface	Antimony	mg/kg	1.00E+00	3.48E-06	1.70E-06	2.34E-10
531	1	Surface	Arsenic	mg/kg	4.68E+01	1.63E-04	4.78E-05	1.09E-08
531	1	Surface	Cadmium	mg/kg	3.10E+00	1.08E-05	1.05E-07	7.24E-10
531	1	Surface	Chromium	mg/kg	5.05E+01	1.75E-04	8.58E-05	1.18E-08
531	1	Surface	Iron	mg/kg	5.68E+04	1.98E-01	9.67E-02	1.33E-05
531	1	Surface	Nickel	mg/kg	1.62E+02	5.64E-04	2.21E-04	3.79E-08
531	1	Surface	Total PAH	mg/kg	5.34E-02	1.86E-07	2.36E-07	9.22E-10
531	1	Surface	Uranium	mg/kg	2.41E+01	8.37E-05	4.10E-05	5.62E-09
531	1	Surface	Uranium-235	pCi/g	1.38E-01	4.80E-07		3.22E-11
531	1	Surface	Uranium-238	pCi/g	3.48E+00	1.21E-05		8.13E-10
531	1	Surface	Zinc	mg/kg	2.45E+03	8.52E-03	4.17E-03	5.73E-07
541	1	Surface	Aluminum	mg/kg	1.43E+04	4.97E-02	2.43E-02	3.34E-06
541	1	Surface	Americium-241	pCi/g	7.53E+00	2.62E-05		1.76E-09
541	1	Surface	Barium	mg/kg	1.28E+02	4.45E-04	2.18E-04	2.99E-08
541	1	Surface	Beryllium	mg/kg	6.98E-01	2.43E-06	1.66E-07	1.63E-10
541	1	Surface	Cadmium	mg/kg	1.68E+00	5.85E-06	5.72E-08	3.93E-10
541	1	Surface	Cesium-137	pCi/g	9.58E-01	3.33E-06		2.24E-10
541	1	Surface	Chromium	mg/kg	8.24E+02	2.86E-03	1.40E-03	1.92E-07
541	1	Surface	Cobalt-60	pCi/g	1.01E-02	3.51E-08		2.36E-12
541	1	Surface	Iron	mg/kg	1.60E+04	5.55E-02	2.72E-02	3.73E-06
541	1	Surface	Mercury	mg/kg	9.81E-02	3.41E-07	1.67E-07	6.83E-07
541	1	Surface	Naphthalene	mg/kg	6.55E-01	2.28E-06	5.57E-06	5.10E-06
541	1	Surface	Neptunium-237	pCi/g	5.52E-02	1.92E-07		1.29E-11
541	1	Surface	Nickel	mg/kg	1.52E+01	5.30E-05	2.07E-05	3.56E-09
541	1	Surface	PCB, Total	mg/kg	6.06E+01	2.11E-04	2.89E-04	2.39E-05
541	1	Surface	Total PAH	mg/kg	2.33E+00	8.09E-06	1.03E-05	4.02E-08
541	1	Surface	Uranium	mg/kg	6.38E+03	2.22E-02	1.09E-02	1.49E-06
541	1	Surface	Uranium-234	pCi/g	1.43E+02	4.97E-04		3.34E-08
541	1	Surface	Uranium-235	pCi/g	1.76E+01	6.10E-05		4.10E-09
541	1	Surface	Uranium-238	pCi/g	1.00E+03	3.48E-03		2.34E-07
541	1	Surface	Vanadium	mg/kg	3.04E+01	1.06E-04	2.69E-05	7.11E-09
561	1	Surface	Antimony	mg/kg	9.36E-01	3.25E-06	1.59E-06	2.19E-10
561	1	Surface	Arsenic	mg/kg	1.66E+01	5.75E-05	1.69E-05	3.87E-09
561	1	Surface	Barium	mg/kg	1.40E+02	4.87E-04	2.39E-04	3.27E-08
561	1	Surface	Beryllium	mg/kg	6.85E-01	2.38E-06	1.63E-07	1.60E-10
561	1	Surface	Chromium	mg/kg	8.58E+01	2.98E-04	1.46E-04	2.00E-08
561	1	Surface	Cobalt	mg/kg	1.07E+01	3.72E-05	1.82E-05	2.50E-09
561	1	Surface	Cobalt-60	pCi/g	7.06E-02	2.45E-07		1.65E-11
561	1	Surface	Iron	mg/kg	2.05E+04	7.11E-02	3.48E-02	4.78E-06
561	1	Surface	Manganese	mg/kg	1.61E+03	5.59E-03	2.19E-03	3.76E-07
561	1	Surface	Neptunium-237	pCi/g	2.71E-02	9.42E-08		6.33E-12
561	1	Surface	PCB, Total	mg/kg	1.04E+00	3.62E-06	4.96E-06	4.10E-07
561	1	Surface	Thallium	mg/kg	3.33E-01	1.16E-06	5.67E-07	7.78E-11
561	1	Surface	Total PAH	mg/kg	1.65E-01	5.74E-07	7.30E-07	2.85E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
561	1	Surface	Uranium	mg/kg	2.65E+02	9.20E-04	4.51E-04	6.18E-08
561	1	Surface	Uranium-234	pCi/g	7.84E+00	2.72E-05		1.83E-09
561	1	Surface	Uranium-235	pCi/g	1.37E+00	4.75E-06		3.19E-10
561	1	Surface	Uranium-238	pCi/g	1.07E+02	3.70E-04		2.49E-08
561	1	Surface	Vanadium	mg/kg	3.76E+01	1.31E-04	3.33E-05	8.79E-09
561	2	Surface	Antimony	mg/kg	5.33E+00	1.85E-05	9.08E-06	1.25E-09
561	2	Surface	Arsenic	mg/kg	1.30E+01	4.52E-05	1.33E-05	3.04E-09
561	2	Surface	Beryllium	mg/kg	6.34E-01	2.20E-06	1.51E-07	1.48E-10
561	2	Surface	Cadmium	mg/kg	4.13E-01	1.44E-06	1.41E-08	9.65E-11
561	2	Surface	Cesium-137	pCi/g	4.09E-01	1.42E-06		9.55E-11
561	2	Surface	Chromium	mg/kg	2.88E+02	1.00E-03	4.90E-04	6.73E-08
561	2	Surface	Cobalt	mg/kg	1.14E+01	3.96E-05	1.94E-05	2.66E-09
561	2	Surface	Cobalt-60	pCi/g	2.76E-02	9.59E-08		6.45E-12
561	2	Surface	Manganese	mg/kg	1.12E+03	3.88E-03	1.52E-03	2.60E-07
561	2	Surface	Neptunium-237	pCi/g	4.71E-02	1.64E-07		1.10E-11
561	2	Surface	PCB, Total	mg/kg	1.64E+01	5.69E-05	7.79E-05	6.44E-06
561	2	Surface	Thallium	mg/kg	4.09E-01	1.42E-06	6.96E-07	9.55E-11
561	2	Surface	Total PAH	mg/kg	4.43E-01	1.54E-06	1.96E-06	7.65E-09
561	2	Surface	Uranium	mg/kg	1.38E+03	4.81E-03	2.35E-03	3.23E-07
561	2	Surface	Uranium-234	pCi/g	4.06E+01	1.41E-04		9.49E-09
561	2	Surface	Uranium-235	pCi/g	7.09E+00	2.47E-05		1.66E-09
561	2	Surface	Uranium-238	pCi/g	4.00E+02	1.39E-03		9.35E-08
561	2	Surface	Vanadium	mg/kg	3.46E+01	1.20E-04	3.06E-05	8.07E-09
562	1	Surface	Uranium	mg/kg	8.73E+01	3.03E-04	1.49E-04	2.04E-08
562	1	Surface	Uranium-238	pCi/g	2.73E+00	9.49E-06		6.38E-10
562	2	Surface	PCB, Total	mg/kg	1.58E+00	5.49E-06	7.53E-06	6.22E-07
562	2	Surface	Uranium-234	pCi/g	5.34E+01	1.86E-04		1.25E-08
562	2	Surface	Uranium-235	pCi/g	8.96E+00	3.11E-05		2.09E-09
562	2	Surface	Uranium-238	pCi/g	5.81E+02	2.02E-03		1.36E-07
562	3	Surface	Chromium	mg/kg	3.82E+01	1.33E-04	6.49E-05	8.91E-09
562	3	Surface	PCB, Total	mg/kg	2.40E-01	8.34E-07	1.14E-06	9.45E-08
562	3	Surface	Total PAH	mg/kg	2.20E-01	7.65E-07	9.73E-07	3.80E-09
562	3	Surface	Uranium	mg/kg	5.89E+01	2.05E-04	1.00E-04	1.38E-08
562	3	Surface	Uranium-235	pCi/g	1.63E-01	5.67E-07		3.81E-11
562	3	Surface	Uranium-238	pCi/g	1.09E+01	3.79E-05		2.55E-09
562	4	Surface	Chromium	mg/kg	4.67E+01	1.62E-04	7.94E-05	1.09E-08
562	4	Surface	Uranium	mg/kg	2.10E+01	7.30E-05	3.57E-05	4.90E-09
562	4	Surface	Uranium-238	pCi/g	2.24E+00	7.79E-06		5.23E-10
562	5	Surface	Chromium	mg/kg	1.53E+02	5.32E-04	2.61E-04	3.58E-08
562	5	Surface	PCB, Total	mg/kg	9.50E-01	3.30E-06	4.53E-06	3.74E-07
562	5	Surface	Total PAH	mg/kg	7.05E-02	2.45E-07	3.12E-07	1.22E-09
562	5	Surface	Uranium	mg/kg	2.08E+02	7.23E-04	3.54E-04	4.86E-08
562	5	Surface	Uranium-234	pCi/g	8.57E+00	2.98E-05		2.00E-09
562	5	Surface	Uranium-235	pCi/g	5.68E-01	1.97E-06		1.33E-10
562	5	Surface	Uranium-235	pCi/g	9.50E-01	3.30E-06		2.22E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.13. Noncancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
562	5	Surface	Uranium-238	pCi/g	6.24E+01	2.17E-04		1.46E-08
563	1	Surface	Cadmium	mg/kg	8.96E-01	3.11E-06	3.05E-08	2.09E-10
563	1	Surface	Chromium	mg/kg	2.85E+02	9.91E-04	4.85E-04	6.66E-08
563	1	Surface	PCB, Total	mg/kg	7.40E-01	2.57E-06	3.53E-06	2.91E-07
563	1	Surface	Uranium	mg/kg	1.51E+01	5.24E-05	2.57E-05	3.52E-09
563	1	Surface	Uranium-238	pCi/g	2.76E+00	9.59E-06		6.45E-10
563	2	Surface	Cesium-137	pCi/g	6.47E-01	2.25E-06		1.51E-10
563	2	Surface	Uranium-238	pCi/g	1.49E+00	5.18E-06		3.48E-10
564	1	Surface	Arsenic	mg/kg	4.30E+01	1.49E-04	4.39E-05	1.00E-08
564	1	Surface	Beryllium	mg/kg	2.12E+00	7.37E-06	5.05E-07	4.95E-10
564	1	Surface	Cadmium	mg/kg	1.96E+00	6.81E-06	6.67E-08	4.58E-10
564	1	Surface	Cesium-137	pCi/g	6.20E-01	2.15E-06		1.45E-10
564	1	Surface	Chromium	mg/kg	7.49E+01	2.60E-04	1.27E-04	1.75E-08
564	1	Surface	Iron	mg/kg	3.66E+04	1.27E-01	6.23E-02	8.55E-06
564	1	Surface	Mercury	mg/kg	2.30E-01	7.99E-07	3.91E-07	1.60E-06
564	1	Surface	Nickel	mg/kg	2.24E+01	7.79E-05	3.05E-05	5.23E-09
564	1	Surface	PCB, Total	mg/kg	1.93E+00	6.71E-06	9.20E-06	7.60E-07
564	1	Surface	Thallium	mg/kg	2.36E+00	8.20E-06	4.02E-06	5.51E-10
564	1	Surface	Thorium-230	pCi/g	5.01E+00	1.74E-05		1.17E-09
564	1	Surface	Uranium	mg/kg	5.83E+01	2.03E-04	9.92E-05	1.36E-08
564	1	Surface	Uranium-234	pCi/g	6.93E+00	2.41E-05		1.62E-09
564	1	Surface	Uranium-235	pCi/g	3.37E-01	1.17E-06		7.87E-11
564	1	Surface	Uranium-235	pCi/g	3.87E-01	1.35E-06		9.04E-11
564	1	Surface	Uranium-238	pCi/g	8.33E+00	2.90E-05		1.95E-09
564	1	Surface	Vanadium	mg/kg	8.06E+01	2.80E-04	7.13E-05	1.88E-08
567	3	Surface	Chromium	mg/kg	3.79E+01	1.32E-04	6.45E-05	8.85E-09
567	4	Surface	Aluminum	mg/kg	1.25E+04	4.35E-02	2.13E-02	2.92E-06
567	4	Surface	Chromium	mg/kg	1.63E+01	5.67E-05	2.77E-05	3.81E-09
567	4	Surface	Uranium-238	pCi/g	1.05E+00	3.65E-06		2.45E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
1	1	Surface	Beryllium	mg/kg	3.89E+00	4.83E-06	3.31E-07	3.25E-10	
1	1	Surface	Cadmium	mg/kg	1.10E+00	1.37E-06	1.34E-08	9.18E-11	
1	1	Surface	Cesium-137	pCi/g	5.91E-01	1.31E+03		8.82E-02	2.00E+00
1	1	Surface	Chromium	mg/kg	1.28E+01	1.59E-05	7.79E-06	1.07E-09	
1	1	Surface	Neptunium-237	pCi/g	4.02E-01	8.92E+02		6.00E-02	1.36E+00
1	1	Surface	PCB, Total	mg/kg	1.76E-01	2.18E-07	2.99E-07	2.48E-08	
1	1	Surface	Plutonium-239/240	pCi/g	6.14E+00	1.36E+04		9.16E-01	2.08E+01
1	1	Surface	Thorium-230	pCi/g	4.40E+01	9.77E+04		6.57E+00	1.49E+02
1	1	Surface	Uranium-235	pCi/g	1.06E-01	2.35E+02		1.58E-02	3.58E-01
1	1	Surface	Uranium-238	pCi/g	1.97E+00	4.38E+03		2.95E-01	6.67E+00
1	2	Surface	Beryllium	mg/kg	8.23E+00	1.02E-05	7.00E-07	6.86E-10	
1	2	Surface	Cadmium	mg/kg	6.46E+00	8.02E-06	7.85E-08	5.39E-10	
1	2	Surface	Chromium	mg/kg	2.01E+02	2.50E-04	1.22E-04	1.68E-08	
1	2	Surface	Copper	mg/kg	1.81E+02	2.25E-04	1.10E-04	1.51E-08	
1	2	Surface	Mercury	mg/kg	5.94E+00	7.37E-06	3.61E-06	1.48E-05	
1	2	Surface	Nickel	mg/kg	5.75E+01	7.13E-05	2.79E-05	4.79E-09	
1	2	Surface	PCB, Total	mg/kg	3.22E+01	4.00E-05	5.48E-05	4.53E-06	
1	2	Surface	Silver	mg/kg	3.31E+01	4.11E-05	1.61E-05	2.76E-09	
1	2	Surface	Thallium	mg/kg	3.70E-01	4.59E-07	2.25E-07	3.09E-11	
1	2	Surface	Vanadium	mg/kg	3.49E+01	4.33E-05	1.10E-05	2.91E-09	
1	3	Surface	Chromium	mg/kg	1.45E+01	1.80E-05	8.79E-06	1.21E-09	
1	3	Surface	PCB, Total	mg/kg	2.17E-01	2.69E-07	3.69E-07	3.05E-08	
1	3	Surface	Uranium-238	pCi/g	1.73E+00	3.84E+03		2.58E-01	5.85E+00
1	4	Surface	Beryllium	mg/kg	7.25E-01	9.00E-07	6.17E-08	6.05E-11	
1	4	Surface	Chromium	mg/kg	9.30E+01	1.15E-04	5.65E-05	7.76E-09	
1	4	Surface	Cobalt-60	pCi/g	2.20E-02	4.88E+01		3.28E-03	7.43E-02
1	4	Surface	Nickel	mg/kg	4.69E+01	5.82E-05	2.28E-05	3.91E-09	
1	4	Surface	PCB, Total	mg/kg	1.30E-01	1.61E-07	2.21E-07	1.83E-08	
1	4	Surface	Thorium-230	pCi/g	5.03E+00	1.12E+04		7.50E-01	1.70E+01
1	5	Surface	Beryllium	mg/kg	8.30E+00	1.03E-05	7.06E-07	6.92E-10	
1	5	Surface	Cadmium	mg/kg	1.20E+00	1.49E-06	1.46E-08	1.00E-10	
1	5	Surface	Nickel	mg/kg	4.07E+01	5.05E-05	1.98E-05	3.40E-09	
1	5	Surface	PCB, Total	mg/kg	2.70E-01	3.35E-07	4.59E-07	3.80E-08	
1	5	Surface	Total PAH	mg/kg	9.83E-02	1.22E-07	1.55E-07	6.06E-10	
12	1	Surface	Aluminum	mg/kg	8.19E+03	1.02E-02	4.98E-03	6.84E-07	
12	1	Surface	Antimony	mg/kg	5.04E-01	6.26E-07	3.06E-07	4.20E-11	
12	1	Surface	Arsenic	mg/kg	1.34E+01	1.66E-05	4.88E-06	1.12E-09	
12	1	Surface	Barium	mg/kg	1.04E+02	1.29E-04	6.30E-05	8.65E-09	
12	1	Surface	Beryllium	mg/kg	6.72E+00	8.34E-06	5.72E-07	5.61E-10	
12	1	Surface	Cadmium	mg/kg	1.02E+00	1.27E-06	1.24E-08	8.51E-11	
12	1	Surface	Chromium	mg/kg	6.33E+01	7.86E-05	3.85E-05	5.28E-09	
12	1	Surface	Cobalt	mg/kg	9.16E+00	1.14E-05	5.57E-06	7.64E-10	
12	1	Surface	Iron	mg/kg	3.01E+04	3.73E-02	1.83E-02	2.51E-06	
12	1	Surface	Manganese	mg/kg	1.01E+03	1.26E-03	4.93E-04	8.46E-08	
12	1	Surface	Mercury	mg/kg	8.80E+00	1.09E-05	5.35E-06	2.19E-05	
12	1	Surface	Molybdenum	mg/kg	1.74E+01	2.16E-05	1.06E-05	1.45E-09	
12	1	Surface	Nickel	mg/kg	7.74E+01	9.61E-05	3.76E-05	6.46E-09	
12	1	Surface	PCB, Total	mg/kg	3.90E-01	4.84E-07	6.64E-07	5.48E-08	
12	1	Surface	Silver	mg/kg	1.10E+01	1.37E-05	5.36E-06	9.19E-10	
12	1	Surface	Thallium	mg/kg	1.03E+00	1.28E-06	6.26E-07	8.59E-11	
12	1	Surface	Total PAH	mg/kg	1.70E-01	2.11E-07	2.69E-07	1.05E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
12	1	Surface	Uranium	mg/kg	3.76E+02	4.66E-04	2.28E-04	3.13E-08	
12	1	Surface	Uranium-234	pCi/g	1.50E+01	3.33E+04		2.24E+00	5.08E+01
12	1	Surface	Uranium-235	pCi/g	1.53E+00	3.39E+03		2.28E-01	5.16E+00
12	1	Surface	Uranium-238	pCi/g	6.68E+01	1.48E+05		9.97E+00	2.26E+02
12	1	Surface	Vanadium	mg/kg	2.80E+01	3.48E-05	8.86E-06	2.34E-09	
13	1	Surface	PCB, Total	mg/kg	7.00E-01	8.69E-07	1.19E-06	9.84E-08	
13	4	Surface	Uranium-238	pCi/g	1.32E+00	2.93E+03		1.97E-01	4.46E+00
13	5	Surface	Aluminum	mg/kg	1.13E+04	1.40E-02	6.84E-03	9.39E-07	
13	5	Surface	Antimony	mg/kg	8.20E-01	1.02E-06	4.98E-07	6.84E-11	
13	5	Surface	Cadmium	mg/kg	1.20E+00	1.49E-06	1.46E-08	1.00E-10	
13	5	Surface	Chromium	mg/kg	1.51E+01	1.87E-05	9.18E-06	1.26E-09	
13	5	Surface	Nickel	mg/kg	1.17E+02	1.45E-04	5.66E-05	9.72E-09	
13	5	Surface	PCB, Total	mg/kg	1.05E+00	1.30E-06	1.78E-06	1.48E-07	
13	5	Surface	Total PAH	mg/kg	6.65E-02	8.25E-08	1.05E-07	4.10E-10	
13	5	Surface	Uranium	mg/kg	1.19E+02	1.48E-04	7.24E-05	9.94E-09	
13	6	Surface	Uranium-238	pCi/g	1.32E+00	2.92E+03		1.96E-01	4.45E+00
13	9	Surface	Neptunium-237	pCi/g	8.90E-01	1.98E+03		1.33E-01	3.01E+00
13	9	Surface	Uranium	mg/kg	1.82E+01	2.26E-05	1.11E-05	1.52E-09	
13	9	Surface	Uranium-235	pCi/g	3.11E-01	6.90E+02		4.64E-02	1.05E+00
13	9	Surface	Uranium-238	pCi/g	6.08E+00	1.35E+04		9.07E-01	2.05E+01
13	11	Surface	Cobalt-60	pCi/g	1.30E-02	2.89E+01		1.94E-03	4.39E-02
14	1	Surface	Americium-241	pCi/g	1.27E+00	2.81E+03		1.89E-01	4.28E+00
14	1	Surface	Arsenic	mg/kg	1.10E+01	1.36E-05	4.00E-06	9.16E-10	
14	1	Surface	Chromium	mg/kg	6.36E+01	7.89E-05	3.86E-05	5.30E-09	
14	1	Surface	Iron	mg/kg	1.89E+04	2.34E-02	1.15E-02	1.57E-06	
14	1	Surface	Neptunium-237	pCi/g	2.14E-01	4.75E+02		3.19E-02	7.23E-01
14	1	Surface	Nickel	mg/kg	1.40E+02	1.73E-04	6.79E-05	1.17E-08	
14	1	Surface	PCB, Total	mg/kg	5.00E-01	6.21E-07	8.51E-07	7.03E-08	
14	1	Surface	Silver	mg/kg	1.67E+01	2.07E-05	8.11E-06	1.39E-09	
14	1	Surface	Technetium-99	pCi/g	4.06E+02	9.01E+05		6.06E+01	1.37E+03
14	1	Surface	Uranium	mg/kg	7.21E+01	8.95E-05	4.38E-05	6.02E-09	
14	1	Surface	Uranium-238	pCi/g	1.69E+00	3.75E+03		2.52E-01	5.71E+00
14	2	Surface	Antimony	mg/kg	3.70E+00	4.59E-06	2.25E-06	3.09E-10	
14	2	Surface	Arsenic	mg/kg	1.45E+01	1.80E-05	5.30E-06	1.21E-09	
14	2	Surface	Beryllium	mg/kg	7.10E-01	8.81E-07	6.04E-08	5.92E-11	
14	2	Surface	Chromium	mg/kg	6.65E+01	8.26E-05	4.04E-05	5.55E-09	
14	2	Surface	Copper	mg/kg	1.76E+02	2.19E-04	1.07E-04	1.47E-08	
14	2	Surface	Iron	mg/kg	3.72E+04	4.62E-02	2.26E-02	3.10E-06	
14	2	Surface	Manganese	mg/kg	1.44E+03	1.79E-03	7.01E-04	1.20E-07	
14	2	Surface	Mercury	mg/kg	2.67E-01	3.31E-07	1.62E-07	6.64E-07	
14	2	Surface	Neptunium-237	pCi/g	7.70E-01	1.71E+03		1.15E-01	2.60E+00
14	2	Surface	Nickel	mg/kg	6.78E+02	8.41E-04	3.30E-04	5.65E-08	
14	2	Surface	PCB, Total	mg/kg	3.90E-01	4.84E-07	6.64E-07	5.48E-08	
14	2	Surface	Thorium-230	pCi/g	5.98E+00	1.33E+04		8.92E-01	2.02E+01
14	2	Surface	Total PAH	mg/kg	3.38E-01	4.20E-07	5.34E-07	2.09E-09	
14	2	Surface	Uranium	mg/kg	2.93E+02	3.64E-04	1.78E-04	2.45E-08	
14	2	Surface	Uranium-234	pCi/g	3.24E+01	7.19E+04		4.83E+00	1.09E+02
14	2	Surface	Uranium-235	pCi/g	2.00E+00	4.44E+03		2.98E-01	6.76E+00
14	2	Surface	Uranium-238	pCi/g	5.61E+01	1.25E+05		8.37E+00	1.90E+02
14	3	Surface	Arsenic	mg/kg	1.30E+01	1.61E-05	4.73E-06	1.08E-09	
14	3	Surface	Chromium	mg/kg	7.01E+01	8.70E-05	4.26E-05	5.85E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	3	Surface	Copper	mg/kg	1.29E+02	1.60E-04	7.86E-05	1.08E-08	
14	3	Surface	Iron	mg/kg	3.48E+04	4.32E-02	2.12E-02	2.91E-06	
14	3	Surface	Manganese	mg/kg	1.06E+03	1.31E-03	5.14E-04	8.82E-08	
14	3	Surface	Mercury	mg/kg	7.48E+00	9.28E-06	4.55E-06	1.86E-05	
14	3	Surface	Molybdenum	mg/kg	2.21E+01	2.74E-05	1.34E-05	1.84E-09	
14	3	Surface	Nickel	mg/kg	5.76E+02	7.15E-04	2.80E-04	4.81E-08	
14	3	Surface	PCB, Total	mg/kg	8.65E+00	1.07E-05	1.47E-05	1.22E-06	
14	3	Surface	Uranium	mg/kg	2.18E+02	2.70E-04	1.32E-04	1.82E-08	
14	3	Surface	Uranium-238	pCi/g	1.50E+00	3.33E+03		2.24E-01	5.07E+00
14	4	Surface	Antimony	mg/kg	4.30E+00	5.34E-06	2.61E-06	3.59E-10	
14	4	Surface	Arsenic	mg/kg	1.33E+01	1.65E-05	4.84E-06	1.11E-09	
14	4	Surface	Chromium	mg/kg	7.20E+01	8.94E-05	4.38E-05	6.01E-09	
14	4	Surface	Copper	mg/kg	3.54E+02	4.39E-04	2.15E-04	2.95E-08	
14	4	Surface	Iron	mg/kg	3.88E+04	4.82E-02	2.36E-02	3.24E-06	
14	4	Surface	Mercury	mg/kg	4.87E-01	6.04E-07	2.96E-07	1.21E-06	
14	4	Surface	Neptunium-237	pCi/g	2.68E+00	5.95E+03		4.00E-01	9.06E+00
14	4	Surface	Nickel	mg/kg	7.31E+02	9.07E-04	3.55E-04	6.09E-08	
14	4	Surface	PCB, Total	mg/kg	6.61E+00	8.20E-06	1.12E-05	9.29E-07	
14	4	Surface	Silver	mg/kg	1.17E+01	1.45E-05	5.69E-06	9.76E-10	
14	4	Surface	Thorium-230	pCi/g	8.33E+00	1.85E+04		1.24E+00	2.81E+01
14	4	Surface	Total PAH	mg/kg	2.51E-01	3.11E-07	3.96E-07	1.55E-09	
14	4	Surface	Uranium	mg/kg	3.72E+02	4.62E-04	2.26E-04	3.10E-08	
14	4	Surface	Uranium-234	pCi/g	1.13E+02	2.51E+05		1.69E+01	3.82E+02
14	4	Surface	Uranium-235	pCi/g	8.00E+00	1.78E+04		1.19E+00	2.70E+01
14	4	Surface	Uranium-238	pCi/g	1.69E+02	3.75E+05		2.52E+01	5.71E+02
14	5	Surface	Antimony	mg/kg	2.30E+00	2.85E-06	1.40E-06	1.92E-10	
14	5	Surface	Arsenic	mg/kg	1.31E+01	1.62E-05	4.77E-06	1.09E-09	
14	5	Surface	Cadmium	mg/kg	3.90E+00	4.84E-06	4.74E-08	3.25E-10	
14	5	Surface	Chromium	mg/kg	4.70E+01	5.83E-05	2.85E-05	3.92E-09	
14	5	Surface	Cobalt	mg/kg	1.40E+01	1.74E-05	8.51E-06	1.17E-09	
14	5	Surface	Copper	mg/kg	1.34E+02	1.66E-04	8.11E-05	1.11E-08	
14	5	Surface	Iron	mg/kg	3.92E+04	4.87E-02	2.38E-02	3.27E-06	
14	5	Surface	Manganese	mg/kg	8.28E+02	1.03E-03	4.02E-04	6.90E-08	
14	5	Surface	Mercury	mg/kg	1.09E+01	1.36E-05	6.65E-06	2.72E-05	
14	5	Surface	Neptunium-237	pCi/g	1.74E+00	3.86E+03		2.60E-01	5.88E+00
14	5	Surface	Nickel	mg/kg	4.61E+02	5.73E-04	2.24E-04	3.85E-08	
14	5	Surface	PCB, Total	mg/kg	1.00E+00	1.24E-06	1.70E-06	1.41E-07	
14	5	Surface	Silver	mg/kg	1.29E+01	1.60E-05	6.26E-06	1.07E-09	
14	5	Surface	Technetium-99	pCi/g	1.01E+02	2.24E+05		1.51E+01	3.41E+02
14	5	Surface	Thallium	mg/kg	4.10E-01	5.09E-07	2.49E-07	3.42E-11	
14	5	Surface	Thorium-230	pCi/g	1.39E+01	3.09E+04		2.07E+00	4.70E+01
14	5	Surface	Total PAH	mg/kg	1.21E-01	1.50E-07	1.91E-07	7.46E-10	
14	5	Surface	Uranium	mg/kg	2.62E+02	3.25E-04	1.59E-04	2.19E-08	
14	5	Surface	Uranium-234	pCi/g	5.22E+01	1.16E+05		7.79E+00	1.76E+02
14	5	Surface	Uranium-235	pCi/g	3.33E+00	7.39E+03		4.97E-01	1.13E+01
14	5	Surface	Uranium-238	pCi/g	9.42E+01	2.09E+05		1.41E+01	3.18E+02
14	6	Surface	Antimony	mg/kg	2.70E+00	3.35E-06	1.64E-06	2.25E-10	
14	6	Surface	Cadmium	mg/kg	8.40E-01	1.04E-06	1.02E-08	7.01E-11	
14	6	Surface	Chromium	mg/kg	4.46E+02	5.53E-04	2.71E-04	3.72E-08	
14	6	Surface	Copper	mg/kg	1.22E+02	1.52E-04	7.43E-05	1.02E-08	
14	6	Surface	Mercury	mg/kg	3.47E-01	4.31E-07	2.11E-07	8.63E-07	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	6	Surface	Neptunium-237	pCi/g	2.65E+00	5.88E+03		3.95E-01	8.95E+00
14	6	Surface	Nickel	mg/kg	9.63E+02	1.20E-03	4.68E-04	8.04E-08	
14	6	Surface	PCB, Total	mg/kg	5.00E+00	6.21E-06	8.51E-06	7.03E-07	
14	6	Surface	Silver	mg/kg	1.19E+01	1.47E-05	5.78E-06	9.91E-10	
14	6	Surface	Uranium	mg/kg	5.79E+02	7.18E-04	3.52E-04	4.83E-08	
14	6	Surface	Uranium-234	pCi/g	3.41E+01	7.57E+04		5.09E+00	1.15E+02
14	6	Surface	Uranium-235	pCi/g	2.27E+00	5.04E+03		3.39E-01	7.67E+00
14	6	Surface	Uranium-238	pCi/g	5.08E+01	1.13E+05		7.58E+00	1.72E+02
14	7	Surface	Antimony	mg/kg	7.50E-01	9.31E-07	4.56E-07	6.26E-11	
14	7	Surface	Arsenic	mg/kg	1.13E+01	1.40E-05	4.12E-06	9.43E-10	
14	7	Surface	Cadmium	mg/kg	2.70E+00	3.35E-06	3.28E-08	2.25E-10	
14	7	Surface	Chromium	mg/kg	6.46E+01	8.01E-05	3.92E-05	5.39E-09	
14	7	Surface	Mercury	mg/kg	7.82E+00	9.71E-06	4.75E-06	1.94E-05	
14	7	Surface	Neptunium-237	pCi/g	1.49E+00	3.31E+03		2.22E-01	5.03E+00
14	7	Surface	Nickel	mg/kg	1.22E+03	1.52E-03	5.95E-04	1.02E-07	
14	7	Surface	PCB, Total	mg/kg	7.60E+00	9.44E-06	1.29E-05	1.07E-06	
14	7	Surface	Total PAH	mg/kg	6.31E-02	7.84E-08	9.98E-08	3.89E-10	
14	7	Surface	Uranium	mg/kg	3.33E+02	4.13E-04	2.02E-04	2.78E-08	
14	7	Surface	Uranium-234	pCi/g	1.28E+01	2.84E+04		1.91E+00	4.33E+01
14	7	Surface	Uranium-235	pCi/g	9.60E-01	2.13E+03		1.43E-01	3.24E+00
14	7	Surface	Uranium-238	pCi/g	2.13E+01	4.73E+04		3.18E+00	7.20E+01
14	8	Surface	Antimony	mg/kg	6.10E-01	7.57E-07	3.71E-07	5.09E-11	
14	8	Surface	Arsenic	mg/kg	1.14E+01	1.41E-05	4.15E-06	9.49E-10	
14	8	Surface	Chromium	mg/kg	4.60E+01	5.71E-05	2.80E-05	3.84E-09	
14	8	Surface	Mercury	mg/kg	7.90E+00	9.81E-06	4.80E-06	1.96E-05	
14	8	Surface	Neptunium-237	pCi/g	8.80E-01	1.95E+03		1.31E-01	2.97E+00
14	8	Surface	Nickel	mg/kg	6.73E+02	8.35E-04	3.27E-04	5.61E-08	
14	8	Surface	PCB, Total	mg/kg	5.00E+00	6.21E-06	8.51E-06	7.03E-07	
14	8	Surface	Silver	mg/kg	9.63E+00	1.20E-05	4.68E-06	8.03E-10	
14	8	Surface	Total PAH	mg/kg	6.28E-02	7.79E-08	9.92E-08	3.87E-10	
14	8	Surface	Uranium	mg/kg	3.35E+02	4.16E-04	2.04E-04	2.80E-08	
14	8	Surface	Uranium-235	pCi/g	2.38E-01	5.28E+02		3.55E-02	8.04E-01
14	8	Surface	Uranium-238	pCi/g	5.92E+00	1.31E+04		8.83E-01	2.00E+01
14	9	Surface	Antimony	mg/kg	2.00E+00	2.48E-06	1.22E-06	1.67E-10	
14	9	Surface	Arsenic	mg/kg	1.40E+01	1.74E-05	5.12E-06	1.17E-09	
14	9	Surface	Cadmium	mg/kg	9.40E-01	1.17E-06	1.14E-08	7.84E-11	
14	9	Surface	Cesium-137	pCi/g	4.53E-01	1.01E+03		6.76E-02	1.53E+00
14	9	Surface	Chromium	mg/kg	4.64E+01	5.76E-05	2.82E-05	3.87E-09	
14	9	Surface	Mercury	mg/kg	1.13E+00	1.40E-06	6.87E-07	2.81E-06	
14	9	Surface	Neptunium-237	pCi/g	1.09E+01	2.43E+04		1.63E+00	3.69E+01
14	9	Surface	Nickel	mg/kg	9.43E+02	1.17E-03	4.59E-04	7.87E-08	
14	9	Surface	PCB, Total	mg/kg	6.84E+00	8.49E-06	1.16E-05	9.62E-07	
14	9	Surface	Technetium-99	pCi/g	1.96E+02	4.35E+05		2.92E+01	6.62E+02
14	9	Surface	Total PAH	mg/kg	4.87E-01	6.05E-07	7.70E-07	3.01E-09	
14	9	Surface	Uranium	mg/kg	1.46E+03	1.82E-03	8.90E-04	1.22E-07	
14	9	Surface	Uranium-234	pCi/g	8.32E+02	1.85E+06		1.24E+02	2.81E+03
14	9	Surface	Uranium-235	pCi/g	5.46E+01	1.21E+05		8.14E+00	1.84E+02
14	9	Surface	Uranium-238	pCi/g	1.20E+03	2.66E+06		1.79E+02	4.05E+03
14	10	Surface	Antimony	mg/kg	9.40E-01	1.17E-06	5.71E-07	7.84E-11	
14	10	Surface	Arsenic	mg/kg	1.12E+01	1.40E-05	4.10E-06	9.38E-10	
14	10	Surface	Chromium	mg/kg	4.19E+01	5.19E-05	2.54E-05	3.49E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	10	Surface	Copper	mg/kg	1.41E+02	1.75E-04	8.58E-05	1.18E-08	
14	10	Surface	Iron	mg/kg	2.75E+04	3.41E-02	1.67E-02	2.29E-06	
14	10	Surface	Mercury	mg/kg	2.51E+01	3.11E-05	1.52E-05	6.24E-05	
14	10	Surface	Neptunium-237	pCi/g	2.64E+00	5.86E+03		3.94E-01	8.92E+00
14	10	Surface	Nickel	mg/kg	6.00E+02	7.45E-04	2.92E-04	5.01E-08	
14	10	Surface	PCB, Total	mg/kg	9.38E+00	1.16E-05	1.60E-05	1.32E-06	
14	10	Surface	Total PAH	mg/kg	2.72E-01	3.37E-07	4.29E-07	1.67E-09	
14	10	Surface	Uranium	mg/kg	2.88E+02	3.58E-04	1.75E-04	2.41E-08	
14	10	Surface	Uranium-234	pCi/g	2.42E+01	5.37E+04		3.61E+00	8.18E+01
14	10	Surface	Uranium-235	pCi/g	1.76E+00	3.91E+03		2.63E-01	5.95E+00
14	10	Surface	Uranium-238	pCi/g	4.09E+01	9.08E+04		6.10E+00	1.38E+02
15	1	Surface	Antimony	mg/kg	6.40E-01	7.94E-07	3.89E-07	5.34E-11	
15	1	Surface	Arsenic	mg/kg	1.24E+01	1.54E-05	4.51E-06	1.03E-09	
15	1	Surface	Chromium	mg/kg	5.61E+01	6.96E-05	3.41E-05	4.68E-09	
15	1	Surface	Copper	mg/kg	1.95E+02	2.42E-04	1.18E-04	1.62E-08	
15	1	Surface	Iron	mg/kg	2.95E+04	3.66E-02	1.79E-02	2.46E-06	
15	1	Surface	Nickel	mg/kg	1.33E+02	1.65E-04	6.45E-05	1.11E-08	
15	1	Surface	PCB, Total	mg/kg	7.80E-02	9.68E-08	1.33E-07	1.10E-08	
15	1	Surface	Silver	mg/kg	1.23E+01	1.53E-05	5.97E-06	1.03E-09	
15	1	Surface	Total PAH	mg/kg	1.71E+00	2.13E-06	2.71E-06	1.06E-08	
15	1	Surface	Uranium	mg/kg	3.09E+01	3.84E-05	1.88E-05	2.58E-09	
15	1	Surface	Uranium-238	pCi/g	1.85E+00	4.11E+03		2.76E-01	6.25E+00
15	2	Surface	Antimony	mg/kg	6.60E-01	8.19E-07	4.01E-07	5.51E-11	
15	2	Surface	Arsenic	mg/kg	1.63E+01	2.02E-05	5.93E-06	1.36E-09	
15	2	Surface	Chromium	mg/kg	5.90E+01	7.32E-05	3.59E-05	4.92E-09	
15	2	Surface	Iron	mg/kg	3.89E+04	4.83E-02	2.36E-02	3.24E-06	
15	2	Surface	Mercury	mg/kg	9.33E+00	1.16E-05	5.67E-06	2.32E-05	
15	2	Surface	Neptunium-237	pCi/g	1.35E-01	3.00E+02		2.01E-02	4.56E-01
15	2	Surface	Nickel	mg/kg	1.97E+02	2.45E-04	9.59E-05	1.65E-08	
15	2	Surface	PCB, Total	mg/kg	3.30E-01	4.10E-07	5.62E-07	4.64E-08	
15	2	Surface	Total PAH	mg/kg	2.11E+00	2.62E-06	3.33E-06	1.30E-08	
15	2	Surface	Uranium	mg/kg	1.32E+02	1.63E-04	8.00E-05	1.10E-08	
15	2	Surface	Uranium-234	pCi/g	6.51E+00	1.45E+04		9.71E-01	2.20E+01
15	2	Surface	Uranium-235	pCi/g	3.80E-01	8.44E+02		5.67E-02	1.28E+00
15	2	Surface	Uranium-238	pCi/g	1.21E+01	2.69E+04		1.81E+00	4.09E+01
15	3	Surface	Antimony	mg/kg	2.45E+01	3.04E-05	1.49E-05	2.04E-09	
15	3	Surface	Arsenic	mg/kg	2.60E+01	3.23E-05	9.48E-06	2.17E-09	
15	3	Surface	Beryllium	mg/kg	7.60E-01	9.43E-07	6.47E-08	6.34E-11	
15	3	Surface	Cadmium	mg/kg	1.19E+01	1.48E-05	1.45E-07	9.93E-10	
15	3	Surface	Chromium	mg/kg	7.53E+01	9.35E-05	4.58E-05	6.28E-09	
15	3	Surface	Cobalt	mg/kg	3.41E+01	4.23E-05	2.07E-05	2.84E-09	
15	3	Surface	Copper	mg/kg	1.40E+03	1.73E-03	8.48E-04	1.16E-07	
15	3	Surface	Iron	mg/kg	9.20E+04	1.14E-01	5.59E-02	7.68E-06	
15	3	Surface	Manganese	mg/kg	1.60E+03	1.99E-03	7.80E-04	1.34E-07	
15	3	Surface	Mercury	mg/kg	2.74E+00	3.40E-06	1.67E-06	6.81E-06	
15	3	Surface	Molybdenum	mg/kg	1.70E+01	2.11E-05	1.03E-05	1.42E-09	
15	3	Surface	Neptunium-237	pCi/g	4.10E+00	9.10E+03		6.12E-01	1.39E+01
15	3	Surface	Nickel	mg/kg	7.57E+02	9.39E-04	3.68E-04	6.31E-08	
15	3	Surface	PCB, Total	mg/kg	6.82E+00	8.47E-06	1.16E-05	9.60E-07	
15	3	Surface	Selenium	mg/kg	2.65E+01	3.28E-05	1.61E-05	2.21E-09	
15	3	Surface	Silver	mg/kg	3.20E+00	3.97E-06	1.56E-06	2.67E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	3	Surface	Technetium-99	pCi/g	3.67E+02	8.15E+05		5.48E+01	1.24E+03
15	3	Surface	Thorium-230	pCi/g	7.23E+00	1.61E+04		1.08E+00	2.44E+01
15	3	Surface	Total PAH	mg/kg	1.45E+00	1.80E-06	2.30E-06	8.97E-09	
15	3	Surface	Uranium	mg/kg	2.16E+02	2.68E-04	1.31E-04	1.80E-08	
15	3	Surface	Uranium-234	pCi/g	6.96E+01	1.55E+05		1.04E+01	2.35E+02
15	3	Surface	Uranium-235	pCi/g	4.21E+00	9.35E+03		6.28E-01	1.42E+01
15	3	Surface	Uranium-238	pCi/g	9.67E+01	2.15E+05		1.44E+01	3.27E+02
15	3	Surface	Zinc	mg/kg	8.79E+02	1.09E-03	5.34E-04	7.33E-08	
15	4	Surface	Antimony	mg/kg	7.40E+00	9.19E-06	4.50E-06	6.17E-10	
15	4	Surface	Arsenic	mg/kg	3.47E+01	4.30E-05	1.26E-05	2.89E-09	
15	4	Surface	Cadmium	mg/kg	1.40E+00	1.74E-06	1.70E-08	1.17E-10	
15	4	Surface	Chromium	mg/kg	1.02E+02	1.27E-04	6.21E-05	8.53E-09	
15	4	Surface	Copper	mg/kg	7.05E+02	8.75E-04	4.28E-04	5.88E-08	
15	4	Surface	Iron	mg/kg	7.81E+04	9.69E-02	4.75E-02	6.52E-06	
15	4	Surface	Manganese	mg/kg	1.54E+03	1.91E-03	7.47E-04	1.28E-07	
15	4	Surface	Mercury	mg/kg	1.41E+01	1.75E-05	8.56E-06	3.50E-05	
15	4	Surface	Neptunium-237	pCi/g	8.00E-01	1.78E+03		1.19E-01	2.70E+00
15	4	Surface	Nickel	mg/kg	1.37E+03	1.71E-03	6.68E-04	1.15E-07	
15	4	Surface	PCB, Total	mg/kg	2.67E+01	3.32E-05	4.55E-05	3.76E-06	
15	4	Surface	Silver	mg/kg	1.46E+01	1.81E-05	7.10E-06	1.22E-09	
15	4	Surface	Total PAH	mg/kg	2.44E+00	3.03E-06	3.86E-06	1.51E-08	
15	4	Surface	Uranium	mg/kg	1.57E+02	1.94E-04	9.51E-05	1.31E-08	
15	4	Surface	Uranium-234	pCi/g	1.07E+01	2.38E+04		1.60E+00	3.62E+01
15	4	Surface	Uranium-235	pCi/g	4.30E-01	9.55E+02		6.42E-02	1.45E+00
15	4	Surface	Uranium-238	pCi/g	1.87E+01	4.15E+04		2.79E+00	6.32E+01
15	4	Surface	Zinc	mg/kg	1.19E+03	1.48E-03	7.23E-04	9.92E-08	
15	5	Surface	Antimony	mg/kg	3.10E+00	3.85E-06	1.88E-06	2.59E-10	
15	5	Surface	Arsenic	mg/kg	1.28E+01	1.59E-05	4.66E-06	1.07E-09	
15	5	Surface	Cadmium	mg/kg	1.50E+00	1.86E-06	1.82E-08	1.25E-10	
15	5	Surface	Chromium	mg/kg	4.28E+01	5.31E-05	2.60E-05	3.57E-09	
15	5	Surface	Copper	mg/kg	5.63E+03	6.99E-03	3.42E-03	4.70E-07	
15	5	Surface	Mercury	mg/kg	3.38E-01	4.20E-07	2.05E-07	8.40E-07	
15	5	Surface	Neptunium-237	pCi/g	6.90E-01	1.53E+03		1.03E-01	2.33E+00
15	5	Surface	Nickel	mg/kg	5.10E+02	6.33E-04	2.48E-04	4.26E-08	
15	5	Surface	PCB, Total	mg/kg	2.51E+01	3.12E-05	4.28E-05	3.53E-06	
15	5	Surface	Silver	mg/kg	1.46E+01	1.81E-05	7.10E-06	1.22E-09	
15	5	Surface	Technetium-99	pCi/g	1.07E+02	2.38E+05		1.60E+01	3.62E+02
15	5	Surface	Total PAH	mg/kg	5.11E-01	6.34E-07	8.07E-07	3.15E-09	
15	5	Surface	Uranium	mg/kg	2.13E+02	2.65E-04	1.30E-04	1.78E-08	
15	5	Surface	Uranium-234	pCi/g	5.83E+00	1.29E+04		8.70E-01	1.97E+01
15	5	Surface	Uranium-235	pCi/g	4.60E-01	1.02E+03		6.86E-02	1.55E+00
15	5	Surface	Uranium-238	pCi/g	1.03E+01	2.29E+04		1.54E+00	3.48E+01
15	5	Surface	Zinc	mg/kg	1.52E+03	1.89E-03	9.26E-04	1.27E-07	
15	6	Surface	Antimony	mg/kg	5.10E+00	6.33E-06	3.10E-06	4.25E-10	
15	6	Surface	Arsenic	mg/kg	1.24E+01	1.54E-05	4.53E-06	1.04E-09	
15	6	Surface	Cadmium	mg/kg	1.50E+00	1.86E-06	1.82E-08	1.25E-10	
15	6	Surface	Chromium	mg/kg	5.80E+01	7.20E-05	3.52E-05	4.84E-09	
15	6	Surface	Cobalt	mg/kg	1.62E+01	2.01E-05	9.84E-06	1.35E-09	
15	6	Surface	Copper	mg/kg	4.23E+02	5.25E-04	2.57E-04	3.53E-08	
15	6	Surface	Iron	mg/kg	3.15E+04	3.91E-02	1.91E-02	2.63E-06	
15	6	Surface	Mercury	mg/kg	4.10E-01	5.09E-07	2.49E-07	1.02E-06	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	6	Surface	Neptunium-237	pCi/g	6.40E-01	1.42E+03		9.55E-02	2.16E+00
15	6	Surface	Nickel	mg/kg	3.24E+02	4.02E-04	1.58E-04	2.70E-08	
15	6	Surface	PCB, Total	mg/kg	6.17E+00	7.65E-06	1.05E-05	8.67E-07	
15	6	Surface	Silver	mg/kg	1.09E+01	1.35E-05	5.30E-06	9.10E-10	
15	6	Surface	Total PAH	mg/kg	1.62E+00	2.02E-06	2.57E-06	1.00E-08	
15	6	Surface	Uranium	mg/kg	6.70E+01	8.32E-05	4.07E-05	5.59E-09	
15	6	Surface	Uranium-234	pCi/g	8.74E+00	1.94E+04		1.30E+00	2.95E+01
15	6	Surface	Uranium-235	pCi/g	5.70E-01	1.27E+03		8.50E-02	1.93E+00
15	6	Surface	Uranium-238	pCi/g	1.54E+01	3.42E+04		2.30E+00	5.20E+01
15	7	Surface	Antimony	mg/kg	7.50E-01	9.31E-07	4.56E-07	6.26E-11	
15	7	Surface	Arsenic	mg/kg	1.61E+01	2.00E-05	5.86E-06	1.34E-09	
15	7	Surface	Cadmium	mg/kg	1.00E+00	1.24E-06	1.22E-08	8.34E-11	
15	7	Surface	Chromium	mg/kg	7.87E+01	9.77E-05	4.78E-05	6.57E-09	
15	7	Surface	Copper	mg/kg	7.33E+02	9.10E-04	4.46E-04	6.12E-08	
15	7	Surface	Iron	mg/kg	3.42E+04	4.25E-02	2.08E-02	2.85E-06	
15	7	Surface	Manganese	mg/kg	1.11E+03	1.37E-03	5.37E-04	9.22E-08	
15	7	Surface	Neptunium-237	pCi/g	2.23E-01	4.95E+02		3.33E-02	7.54E-01
15	7	Surface	Nickel	mg/kg	5.59E+02	6.93E-04	2.72E-04	4.66E-08	
15	7	Surface	PCB, Total	mg/kg	2.57E+01	3.19E-05	4.37E-05	3.61E-06	
15	7	Surface	Silver	mg/kg	1.29E+01	1.60E-05	6.25E-06	1.07E-09	
15	7	Surface	Total PAH	mg/kg	1.59E-01	1.97E-07	2.51E-07	9.80E-10	
15	7	Surface	Uranium	mg/kg	5.39E+01	6.69E-05	3.27E-05	4.50E-09	
15	7	Surface	Uranium-234	pCi/g	6.49E+00	1.44E+04		9.68E-01	2.19E+01
15	7	Surface	Uranium-235	pCi/g	4.50E-01	9.99E+02		6.71E-02	1.52E+00
15	7	Surface	Uranium-238	pCi/g	8.05E+00	1.79E+04		1.20E+00	2.72E+01
15	7	Surface	Zinc	mg/kg	5.87E+02	7.29E-04	3.57E-04	4.90E-08	
15	8	Surface	Antimony	mg/kg	5.40E+00	6.70E-06	3.28E-06	4.50E-10	
15	8	Surface	Arsenic	mg/kg	1.17E+01	1.45E-05	4.25E-06	9.72E-10	
15	8	Surface	Chromium	mg/kg	7.74E+01	9.61E-05	4.70E-05	6.46E-09	
15	8	Surface	Copper	mg/kg	1.62E+02	2.01E-04	9.83E-05	1.35E-08	
15	8	Surface	Iron	mg/kg	2.83E+04	3.51E-02	1.72E-02	2.36E-06	
15	8	Surface	Mercury	mg/kg	1.00E+01	1.25E-05	6.10E-06	2.50E-05	
15	8	Surface	Neptunium-237	pCi/g	3.65E-01	8.10E+02		5.45E-02	1.23E+00
15	8	Surface	Nickel	mg/kg	1.82E+02	2.26E-04	8.83E-05	1.52E-08	
15	8	Surface	PCB, Total	mg/kg	4.90E+00	6.08E-06	8.34E-06	6.89E-07	
15	8	Surface	Silver	mg/kg	1.36E+01	1.68E-05	6.59E-06	1.13E-09	
15	8	Surface	Total PAH	mg/kg	3.59E-01	4.45E-07	5.67E-07	2.21E-09	
15	8	Surface	Uranium	mg/kg	4.46E+01	5.53E-05	2.71E-05	3.72E-09	
15	8	Surface	Uranium-235	pCi/g	3.04E-01	6.75E+02		4.54E-02	1.03E+00
15	8	Surface	Uranium-238	pCi/g	6.64E+00	1.47E+04		9.91E-01	2.24E+01
15	9	Surface	Arsenic	mg/kg	1.10E+01	1.37E-05	4.03E-06	9.21E-10	
15	9	Surface	Chromium	mg/kg	9.56E+01	1.19E-04	5.81E-05	7.98E-09	
15	9	Surface	Copper	mg/kg	1.36E+02	1.69E-04	8.25E-05	1.13E-08	
15	9	Surface	Iron	mg/kg	2.76E+04	3.42E-02	1.68E-02	2.30E-06	
15	9	Surface	Neptunium-237	pCi/g	1.28E-01	2.84E+02		1.91E-02	4.33E-01
15	9	Surface	Nickel	mg/kg	1.49E+02	1.85E-04	7.24E-05	1.24E-08	
15	9	Surface	PCB, Total	mg/kg	3.30E-01	4.10E-07	5.62E-07	4.64E-08	
15	9	Surface	Silver	mg/kg	1.54E+01	1.91E-05	7.50E-06	1.29E-09	
15	9	Surface	Total PAH	mg/kg	2.38E-01	2.96E-07	3.77E-07	1.47E-09	
15	9	Surface	Uranium	mg/kg	3.07E+01	3.81E-05	1.86E-05	2.56E-09	
15	9	Surface	Uranium-235	pCi/g	2.42E-01	5.37E+02		3.61E-02	8.18E-01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	9	Surface	Uranium-238	pCi/g	7.12E+00	1.58E+04		1.06E+00	2.41E+01
15	10	Surface	Chromium	mg/kg	3.55E+01	4.41E-05	2.16E-05	2.96E-09	
15	10	Surface	Mercury	mg/kg	7.84E+00	9.73E-06	4.76E-06	1.95E-05	
15	10	Surface	Nickel	mg/kg	1.46E+02	1.81E-04	7.08E-05	1.22E-08	
15	10	Surface	Silver	mg/kg	1.08E+01	1.34E-05	5.26E-06	9.02E-10	
15	10	Surface	Total PAH	mg/kg	1.28E-01	1.59E-07	2.03E-07	7.92E-10	
15	10	Surface	Uranium	mg/kg	6.47E+01	8.03E-05	3.93E-05	5.40E-09	
16	1	Surface	Cesium-137	pCi/g	1.10E+00	2.44E+03		1.64E-01	3.72E+00
16	1	Surface	PCB, Total	mg/kg	9.60E-02	1.19E-07	1.63E-07	1.35E-08	
16	1	Surface	Total PAH	mg/kg	2.72E-02	3.38E-08	4.30E-08	1.68E-10	
16	2	Surface	Beryllium	mg/kg	8.40E-01	1.04E-06	7.15E-08	7.01E-11	
16	2	Surface	Chromium	mg/kg	2.04E+01	2.53E-05	1.24E-05	1.70E-09	
16	2	Surface	Nickel	mg/kg	2.16E+01	2.68E-05	1.05E-05	1.80E-09	
16	3	Surface	PCB, Total	mg/kg	9.49E-01	1.18E-06	1.61E-06	1.33E-07	
16	4	Surface	Cesium-137	pCi/g	3.66E+01	8.12E+04		5.46E+00	1.24E+02
16	4	Surface	Cobalt-60	pCi/g	8.53E-03	1.89E+01		1.27E-03	2.88E-02
16	4	Surface	Neptunium-237	pCi/g	7.12E+00	1.58E+04		1.06E+00	2.41E+01
16	4	Surface	PCB, Total	mg/kg	3.20E-01	3.97E-07	5.45E-07	4.50E-08	
16	4	Surface	Technetium-99	pCi/g	2.96E+02	6.56E+05		4.41E+01	9.99E+02
16	4	Surface	Thorium-230	pCi/g	5.29E+00	1.17E+04		7.89E-01	1.79E+01
16	4	Surface	Total PAH	mg/kg	2.93E+00	3.63E-06	4.63E-06	1.81E-08	
16	4	Surface	Uranium-234	pCi/g	1.19E+02	2.64E+05		1.78E+01	4.02E+02
16	4	Surface	Uranium-235	pCi/g	8.23E+00	1.83E+04		1.23E+00	2.78E+01
16	4	Surface	Uranium-238	pCi/g	2.70E+02	5.99E+05		4.03E+01	9.12E+02
19	1	Surface	Beryllium	mg/kg	1.10E+00	1.37E-06	9.36E-08	9.18E-11	
19	1	Surface	Cadmium	mg/kg	1.20E+00	1.49E-06	1.46E-08	1.00E-10	
19	1	Surface	Thallium	mg/kg	9.80E-01	1.22E-06	5.96E-07	8.17E-11	
19	1	Surface	Total PAH	mg/kg	5.23E+00	6.49E-06	8.26E-06	3.22E-08	
26	1	Surface	Arsenic	mg/kg	1.29E+01	1.60E-05	4.70E-06	1.07E-09	
26	1	Surface	Beryllium	mg/kg	6.69E-01	8.30E-07	5.69E-08	5.58E-11	
26	1	Surface	Cadmium	mg/kg	1.99E+00	2.47E-06	2.42E-08	1.66E-10	
26	1	Surface	Cesium-137	pCi/g	3.16E+00	7.02E+03		4.72E-01	1.07E+01
26	1	Surface	Chromium	mg/kg	1.90E+01	2.36E-05	1.15E-05	1.58E-09	
26	1	Surface	Cobalt-60	pCi/g	1.93E-03	4.28E+00		2.88E-04	6.52E-03
26	1	Surface	Mercury	mg/kg	1.66E-01	2.06E-07	1.01E-07	4.13E-07	
26	1	Surface	Neptunium-237	pCi/g	2.61E-01	5.79E+02		3.89E-02	8.82E-01
26	1	Surface	Nickel	mg/kg	1.76E+01	2.18E-05	8.55E-06	1.47E-09	
26	1	Surface	PCB, Total	mg/kg	9.33E-01	1.16E-06	1.59E-06	1.31E-07	
26	1	Surface	Plutonium-239/240	pCi/g	4.04E+00	8.96E+03		6.02E-01	1.36E+01
26	1	Surface	Thorium-230	pCi/g	3.82E+00	8.47E+03		5.69E-01	1.29E+01
26	1	Surface	Total PAH	mg/kg	5.00E-02	6.21E-08	7.90E-08	3.08E-10	
26	1	Surface	Uranium	mg/kg	1.29E+02	1.60E-04	7.82E-05	1.07E-08	
26	1	Surface	Uranium-234	pCi/g	4.67E+00	1.04E+04		6.96E-01	1.58E+01
26	1	Surface	Uranium-235	pCi/g	6.41E-01	1.42E+03		9.56E-02	2.17E+00
26	1	Surface	Uranium-238	pCi/g	3.47E+01	7.70E+04		5.17E+00	1.17E+02
26	2	Surface	Aluminum	mg/kg	2.17E+04	2.69E-02	1.32E-02	1.81E-06	
26	2	Surface	Arsenic	mg/kg	4.72E+01	5.86E-05	1.72E-05	3.94E-09	
26	2	Surface	Barium	mg/kg	1.49E+02	1.85E-04	9.04E-05	1.24E-08	
26	2	Surface	Beryllium	mg/kg	9.69E+00	1.20E-05	8.25E-07	8.09E-10	
26	2	Surface	Cadmium	mg/kg	2.38E+00	2.96E-06	2.89E-08	1.99E-10	
26	2	Surface	Cesium-137	pCi/g	5.92E+00	1.31E+04		8.84E-01	2.00E+01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
26	2	Surface	Chromium	mg/kg	3.90E+01	4.84E-05	2.37E-05	3.25E-09	
26	2	Surface	Cobalt	mg/kg	5.20E+01	6.45E-05	3.16E-05	4.34E-09	
26	2	Surface	Copper	mg/kg	1.31E+02	1.63E-04	7.96E-05	1.09E-08	
26	2	Surface	Iron	mg/kg	5.32E+04	6.60E-02	3.23E-02	4.44E-06	
26	2	Surface	Neptunium-237	pCi/g	7.89E-01	1.75E+03		1.18E-01	2.67E+00
26	2	Surface	Nickel	mg/kg	1.13E+02	1.40E-04	5.50E-05	9.43E-09	
26	2	Surface	PCB, Total	mg/kg	2.23E+00	2.77E-06	3.79E-06	3.13E-07	
26	2	Surface	Thallium	mg/kg	1.39E+01	1.73E-05	8.45E-06	1.16E-09	
26	2	Surface	Thorium-230	pCi/g	1.51E+01	3.36E+04		2.26E+00	5.11E+01
26	2	Surface	Uranium	mg/kg	6.46E+02	8.02E-04	3.93E-04	5.39E-08	
26	2	Surface	Uranium-234	pCi/g	1.91E+01	4.23E+04		2.85E+00	6.44E+01
26	2	Surface	Uranium-235	pCi/g	1.71E+00	3.79E+03		2.55E-01	5.77E+00
26	2	Surface	Uranium-238	pCi/g	5.14E+01	1.14E+05		7.67E+00	1.74E+02
26	2	Surface	Vanadium	mg/kg	3.13E+01	3.88E-05	9.88E-06	2.61E-09	
26	3	Surface	Aluminum	mg/kg	9.55E+03	1.19E-02	5.80E-03	7.96E-07	
26	3	Surface	Antimony	mg/kg	1.40E+00	1.74E-06	8.51E-07	1.17E-10	
26	3	Surface	Arsenic	mg/kg	5.09E+01	6.32E-05	1.86E-05	4.24E-09	
26	3	Surface	Barium	mg/kg	4.48E+02	5.55E-04	2.72E-04	3.73E-08	
26	3	Surface	Beryllium	mg/kg	2.54E+00	3.15E-06	2.16E-07	2.11E-10	
26	3	Surface	Cadmium	mg/kg	2.34E+00	2.90E-06	2.84E-08	1.95E-10	
26	3	Surface	Cesium-137	pCi/g	7.48E-01	1.66E+03		1.12E-01	2.53E+00
26	3	Surface	Chromium	mg/kg	3.25E+01	4.04E-05	1.98E-05	2.71E-09	
26	3	Surface	Cobalt	mg/kg	1.21E+01	1.50E-05	7.36E-06	1.01E-09	
26	3	Surface	Mercury	mg/kg	3.87E-01	4.80E-07	2.35E-07	9.62E-07	
26	3	Surface	Naphthalene	mg/kg	1.32E+00	1.64E-06	4.01E-06	3.67E-06	
26	3	Surface	Neptunium-237	pCi/g	7.53E-01	1.67E+03		1.12E-01	2.54E+00
26	3	Surface	Nickel	mg/kg	2.97E+01	3.69E-05	1.44E-05	2.48E-09	
26	3	Surface	PCB, Total	mg/kg	2.52E+00	3.13E-06	4.28E-06	3.54E-07	
26	3	Surface	Silver	mg/kg	2.59E+01	3.21E-05	1.26E-05	2.16E-09	
26	3	Surface	Technetium-99	pCi/g	6.48E+01	1.44E+05		9.66E+00	2.19E+02
26	3	Surface	Thallium	mg/kg	6.00E-01	7.45E-07	3.65E-07	5.01E-11	
26	3	Surface	Thorium-230	pCi/g	7.10E+00	1.58E+04		1.06E+00	2.40E+01
26	3	Surface	Total PAH	mg/kg	1.19E+00	1.47E-06	1.88E-06	7.33E-09	
26	3	Surface	Uranium	mg/kg	9.88E+01	1.23E-04	6.00E-05	8.24E-09	
26	3	Surface	Uranium-234	pCi/g	4.63E+01	1.03E+05		6.91E+00	1.57E+02
26	3	Surface	Uranium-235	pCi/g	1.69E+00	3.75E+03		2.52E-01	5.71E+00
26	3	Surface	Uranium-238	pCi/g	5.19E+01	1.15E+05		7.74E+00	1.75E+02
26	3	Surface	Vanadium	mg/kg	3.77E+01	4.68E-05	1.19E-05	3.14E-09	
26	4	Surface	Aluminum	mg/kg	1.07E+04	1.32E-02	6.48E-03	8.90E-07	
26	4	Surface	Americium-241	pCi/g	1.27E+00	2.83E+03		1.90E-01	4.30E+00
26	4	Surface	Antimony	mg/kg	6.00E-01	7.45E-07	3.65E-07	5.01E-11	
26	4	Surface	Beryllium	mg/kg	6.91E-01	8.58E-07	5.88E-08	5.76E-11	
26	4	Surface	Cadmium	mg/kg	1.99E+00	2.47E-06	2.42E-08	1.66E-10	
26	4	Surface	Cesium-137	pCi/g	6.38E-01	1.42E+03		9.52E-02	2.16E+00
26	4	Surface	Chromium	mg/kg	8.57E+01	1.06E-04	5.21E-05	7.15E-09	
26	4	Surface	Cobalt-60	pCi/g	1.21E-03	2.69E+00		1.81E-04	4.09E-03
26	4	Surface	Copper	mg/kg	1.16E+02	1.44E-04	7.04E-05	9.66E-09	
26	4	Surface	Mercury	mg/kg	3.07E+00	3.81E-06	1.87E-06	7.64E-06	
26	4	Surface	Neptunium-237	pCi/g	1.36E+01	3.01E+04		2.02E+00	4.59E+01
26	4	Surface	Nickel	mg/kg	7.54E+01	9.36E-05	3.67E-05	6.29E-09	
26	4	Surface	PCB, Total	mg/kg	5.54E-01	6.88E-07	9.43E-07	7.79E-08	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
26	4	Surface	Plutonium-239/240	pCi/g	5.00E+00	1.11E+04		7.46E-01	1.69E+01
26	4	Surface	Technetium-99	pCi/g	5.97E+02	1.33E+06		8.91E+01	2.02E+03
26	4	Surface	Thorium-230	pCi/g	3.26E+01	7.24E+04		4.87E+00	1.10E+02
26	4	Surface	Total PAH	mg/kg	2.83E-02	3.52E-08	4.47E-08	1.75E-10	
26	4	Surface	Uranium	mg/kg	9.75E+02	1.21E-03	5.93E-04	8.13E-08	
26	4	Surface	Uranium-234	pCi/g	1.54E+02	3.43E+05		2.30E+01	5.22E+02
26	4	Surface	Uranium-235	pCi/g	1.08E+01	2.40E+04		1.61E+00	3.65E+01
26	4	Surface	Uranium-238	pCi/g					
47	1	Surface	Aluminum	mg/kg	1.50E+04	1.86E-02	9.12E-03	1.25E-06	
47	1	Surface	Antimony	mg/kg	9.00E-01	1.12E-06	5.47E-07	7.51E-11	
47	1	Surface	Arsenic	mg/kg	4.52E+01	5.61E-05	1.65E-05	3.77E-09	
47	1	Surface	Beryllium	mg/kg	7.00E-01	8.69E-07	5.96E-08	5.84E-11	
47	1	Surface	Cadmium	mg/kg	4.25E+00	5.28E-06	5.17E-08	3.55E-10	
47	1	Surface	Chromium	mg/kg	5.39E+01	6.69E-05	3.28E-05	4.50E-09	
47	1	Surface	Cobalt	mg/kg	1.43E+01	1.78E-05	8.69E-06	1.19E-09	
47	1	Surface	Iron	mg/kg	2.95E+04	3.66E-02	1.79E-02	2.46E-06	
47	1	Surface	Naphthalene	mg/kg	1.90E+00	2.36E-06	5.77E-06	5.28E-06	
47	1	Surface	Neptunium-237	pCi/g	1.15E-01	2.55E+02		1.72E-02	3.89E-01
47	1	Surface	Nickel	mg/kg	8.25E+01	1.02E-04	4.01E-05	6.88E-09	
47	1	Surface	PCB, Total	mg/kg	9.60E-01	1.19E-06	1.63E-06	1.35E-07	
47	1	Surface	Plutonium-239/240	pCi/g	4.11E+00	9.12E+03		6.13E-01	1.39E+01
47	1	Surface	Pyrene	mg/kg	1.11E+02	1.37E-04	1.75E-04	6.06E-06	
47	1	Surface	Thorium-230	pCi/g	4.11E+01	9.12E+04		6.13E+00	1.39E+02
47	1	Surface	Total PAH	mg/kg	5.41E+01	6.71E-05	8.54E-05	3.34E-07	
47	1	Surface	Uranium	mg/kg	3.23E+01	4.01E-05	1.96E-05	2.70E-09	
47	1	Surface	Uranium-234	pCi/g	6.85E+00	1.52E+04		1.02E+00	2.31E+01
47	1	Surface	Uranium-235	pCi/g	5.00E-01	1.11E+03		7.46E-02	1.69E+00
47	1	Surface	Uranium-238	pCi/g	7.93E+00	1.76E+04		1.18E+00	2.68E+01
74	1	Surface	PCB, Total	mg/kg	2.97E+00	3.69E-06	5.06E-06	4.18E-07	
74	1	Surface	Total PAH	mg/kg	3.16E+00	3.92E-06	5.00E-06	1.95E-08	
74	1	Surface	Uranium-234	pCi/g	7.55E+00	1.68E+04		1.13E+00	2.55E+01
74	1	Surface	Uranium-238	pCi/g	3.85E+01	8.55E+04		5.74E+00	1.30E+02
75	1	Surface	Cadmium	mg/kg	1.10E+00	1.37E-06	1.34E-08	9.18E-11	
75	1	Surface	Chromium	mg/kg	7.17E+01	8.90E-05	4.36E-05	5.98E-09	
75	1	Surface	Copper	mg/kg	3.15E+02	3.91E-04	1.91E-04	2.63E-08	
75	1	Surface	Nickel	mg/kg	8.87E+01	1.10E-04	4.31E-05	7.40E-09	
75	1	Surface	PCB, Total	mg/kg	2.30E-01	2.85E-07	3.91E-07	3.23E-08	
75	1	Surface	Total PAH	mg/kg	2.21E-01	2.75E-07	3.50E-07	1.37E-09	
76	1	Surface	Barium	mg/kg	2.69E+02	3.34E-04	1.63E-04	2.24E-08	
76	1	Surface	PCB, Total	mg/kg	2.60E-01	3.23E-07	4.42E-07	3.66E-08	
76	1	Surface	Total PAH	mg/kg	1.76E+00	2.18E-06	2.78E-06	1.08E-08	
76	1	Surface	Uranium-238	pCi/g	1.45E+00	3.22E+03		2.16E-01	4.90E+00
78	1	Surface	Cadmium	mg/kg	2.36E+00	2.93E-06	2.87E-08	1.97E-10	
78	1	Surface	Chromium	mg/kg	3.75E+01	4.65E-05	2.28E-05	3.13E-09	
78	1	Surface	Cobalt-60	pCi/g	5.91E-03	1.31E+01		8.82E-04	2.00E-02
78	1	Surface	Naphthalene	mg/kg	1.60E+01	1.99E-05	4.86E-05	4.45E-05	
78	1	Surface	Nickel	mg/kg	2.15E+01	2.67E-05	1.05E-05	1.79E-09	
78	1	Surface	PCB, Total	mg/kg	1.20E+01	1.49E-05	2.04E-05	1.69E-06	
78	1	Surface	Total PAH	mg/kg	3.91E+01	4.86E-05	6.18E-05	2.41E-07	
78	1	Surface	Uranium-235	pCi/g	2.64E-01	5.86E+02		3.94E-02	8.92E-01
78	1	Surface	Uranium-238	pCi/g	5.29E+00	1.17E+04		7.89E-01	1.79E+01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
80	1	Surface	Americium-241	pCi/g	6.40E+00	1.42E+04		9.55E-01	2.16E+01
80	1	Surface	Antimony	mg/kg	9.10E-01	1.13E-06	5.53E-07	7.59E-11	
80	1	Surface	Beryllium	mg/kg	7.80E-01	9.68E-07	6.64E-08	6.51E-11	
80	1	Surface	Chromium	mg/kg	1.65E+02	2.05E-04	1.00E-04	1.38E-08	
80	1	Surface	Mercury	mg/kg	4.50E-01	5.59E-07	2.73E-07	1.12E-06	
80	1	Surface	Neptunium-237	pCi/g	5.05E-01	1.12E+03		7.53E-02	1.71E+00
80	1	Surface	PCB, Total	mg/kg	1.46E+01	1.81E-05	2.49E-05	2.06E-06	
80	1	Surface	Thorium-230	pCi/g	4.40E+00	9.77E+03		6.56E-01	1.49E+01
80	1	Surface	Total PAH	mg/kg	1.42E-01	1.76E-07	2.24E-07	8.74E-10	
80	1	Surface	Uranium	mg/kg	5.72E+03	7.10E-03	3.48E-03	4.77E-07	
80	1	Surface	Uranium-234	pCi/g	2.29E+02	5.08E+05		3.42E+01	7.74E+02
80	1	Surface	Uranium-235	pCi/g	3.00E+01	6.66E+04		4.48E+00	1.01E+02
80	1	Surface	Uranium-238	pCi/g	1.92E+03	4.26E+06		2.87E+02	6.49E+03
81	1	Surface	Aluminum	mg/kg	9.57E+03	1.19E-02	5.82E-03	7.99E-07	
81	1	Surface	Arsenic	mg/kg	1.03E+01	1.27E-05	3.74E-06	8.55E-10	
81	1	Surface	Beryllium	mg/kg	7.57E-01	9.40E-07	6.44E-08	6.31E-11	
81	1	Surface	Chromium	mg/kg	8.62E+01	1.07E-04	5.24E-05	7.19E-09	
81	1	Surface	Mercury	mg/kg	8.33E+00	1.03E-05	5.06E-06	2.07E-05	
81	1	Surface	Nickel	mg/kg	7.29E+01	9.05E-05	3.54E-05	6.08E-09	
81	1	Surface	PCB, Total	mg/kg	1.60E+02	1.98E-04	2.72E-04	2.25E-05	
81	1	Surface	Silver	mg/kg	2.70E+00	3.35E-06	1.31E-06	2.25E-10	
81	1	Surface	Total PAH	mg/kg	5.53E-01	6.86E-07	8.74E-07	3.41E-09	
81	1	Surface	Uranium	mg/kg	6.50E+03	8.07E-03	3.95E-03	5.42E-07	
81	1	Surface	Uranium-238	pCi/g	2.29E+00	5.07E+03		3.41E-01	7.72E+00
99	1	Surface	Chromium	mg/kg	5.51E+01	6.84E-05	3.35E-05	4.60E-09	
99	1	Surface	Cobalt-60	pCi/g	1.19E-02	2.64E+01		1.78E-03	4.02E-02
99	1	Surface	Mercury	mg/kg	9.53E+00	1.18E-05	5.79E-06	2.37E-05	
99	1	Surface	Nickel	mg/kg	7.02E+01	8.71E-05	3.41E-05	5.86E-09	
99	1	Surface	Silver	mg/kg	1.03E+01	1.28E-05	5.01E-06	8.59E-10	
99	1	Surface	Uranium-238	pCi/g	9.45E-01	2.10E+03		1.41E-01	3.19E+00
138	1	Surface	Antimony	mg/kg	5.39E+00	6.70E-06	3.28E-06	4.50E-10	
138	1	Surface	Arsenic	mg/kg	1.06E+01	1.32E-05	3.87E-06	8.86E-10	
138	1	Surface	Cadmium	mg/kg	5.42E+00	6.73E-06	6.59E-08	4.52E-10	
138	1	Surface	Chromium	mg/kg	5.39E+01	6.68E-05	3.27E-05	4.49E-09	
138	1	Surface	Mercury	mg/kg	1.30E+01	1.61E-05	7.89E-06	3.23E-05	
138	1	Surface	Nickel	mg/kg	7.04E+01	8.73E-05	3.42E-05	5.87E-09	
138	1	Surface	PCB, Total	mg/kg	5.00E-01	6.21E-07	8.51E-07	7.03E-08	
138	1	Surface	Silver	mg/kg	1.01E+01	1.25E-05	4.91E-06	8.42E-10	
138	1	Surface	Total PAH	mg/kg	9.74E-02	1.21E-07	1.54E-07	6.01E-10	
138	2	Surface	Nickel	mg/kg	7.99E+01	9.91E-05	3.88E-05	6.66E-09	
138	2	Surface	PCB, Total	mg/kg	9.20E-02	1.14E-07	1.57E-07	1.29E-08	
138	2	Surface	Silver	mg/kg	1.04E+01	1.30E-05	5.08E-06	8.71E-10	
138	2	Surface	Total PAH	mg/kg	3.84E-02	4.77E-08	6.07E-08	2.37E-10	
153	1	Surface	PCB, Total	mg/kg	5.09E-01	6.32E-07	8.66E-07	7.16E-08	
153	1	Surface	Total PAH	mg/kg	8.69E-02	1.08E-07	1.37E-07	5.36E-10	
154	1	Surface	Arsenic	mg/kg	1.52E+01	1.88E-05	5.53E-06	1.27E-09	
154	1	Surface	Chromium	mg/kg	4.28E+01	5.31E-05	2.60E-05	3.57E-09	
154	1	Surface	Nickel	mg/kg	9.89E+01	1.23E-04	4.81E-05	8.25E-09	
154	1	Surface	PCB, Total	mg/kg	3.20E+00	3.97E-06	5.45E-06	4.50E-07	
154	1	Surface	Total PAH	mg/kg	1.04E+00	1.29E-06	1.64E-06	6.42E-09	
154	1	Surface	Uranium	mg/kg	3.82E+01	4.74E-05	2.32E-05	3.18E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
154	1	Surface	Uranium-238	pCi/g	3.06E+00	6.79E+03		4.57E-01	1.03E+01
154	2	Surface	PCB, Total	mg/kg	4.00E-01	4.97E-07	6.81E-07	5.63E-08	
155	1	Surface	Antimony	mg/kg	3.65E+00	4.54E-06	2.22E-06	3.05E-10	
155	1	Surface	Chromium	mg/kg	3.47E+01	4.31E-05	2.11E-05	2.89E-09	
155	1	Surface	Neptunium-237	pCi/g	1.03E-01	2.29E+02		1.54E-02	3.48E-01
155	1	Surface	Nickel	mg/kg	7.65E+01	9.50E-05	3.72E-05	6.38E-09	
155	1	Surface	PCB, Total	mg/kg	9.20E+00	1.14E-05	1.56E-05	1.29E-06	
155	1	Surface	Silver	mg/kg	1.11E+01	1.38E-05	5.39E-06	9.24E-10	
156	1	Surface	Chromium	mg/kg	4.90E+01	6.09E-05	2.98E-05	4.09E-09	
156	1	Surface	Manganese	mg/kg	2.83E+03	3.52E-03	1.38E-03	2.36E-07	
156	1	Surface	Mercury	mg/kg	9.87E+00	1.23E-05	6.00E-06	2.45E-05	
156	1	Surface	Nickel	mg/kg	6.16E+01	7.65E-05	3.00E-05	5.14E-09	
156	1	Surface	PCB, Total	mg/kg	3.00E-01	3.72E-07	5.10E-07	4.22E-08	
156	1	Surface	Total PAH	mg/kg	8.26E-02	1.03E-07	1.31E-07	5.10E-10	
156	1	Surface	Uranium	mg/kg	2.32E+01	2.88E-05	1.41E-05	1.93E-09	
156	1	Surface	Uranium-238	pCi/g	2.19E+00	4.86E+03		3.27E-01	7.40E+00
158	1	Surface	Antimony	mg/kg	5.23E-01	6.49E-07	3.18E-07	4.36E-11	
158	1	Surface	Arsenic	mg/kg	1.01E+01	1.26E-05	3.69E-06	8.44E-10	
158	1	Surface	Barium	mg/kg	2.19E+02	2.71E-04	1.33E-04	1.82E-08	
158	1	Surface	Chromium	mg/kg	6.07E+01	7.54E-05	3.69E-05	5.07E-09	
158	1	Surface	Cobalt	mg/kg	1.62E+01	2.01E-05	9.86E-06	1.35E-09	
158	1	Surface	Manganese	mg/kg	9.91E+02	1.23E-03	4.82E-04	8.26E-08	
158	1	Surface	Mercury	mg/kg	1.05E+01	1.30E-05	6.36E-06	2.60E-05	
158	1	Surface	Nickel	mg/kg	7.28E+01	9.04E-05	3.54E-05	6.08E-09	
158	1	Surface	Thallium	mg/kg	3.12E-01	3.87E-07	1.90E-07	2.60E-11	
158	1	Surface	Total PAH	mg/kg	3.69E-01	4.58E-07	5.83E-07	2.28E-09	
158	1	Surface	Uranium	mg/kg	2.03E+01	2.52E-05	1.23E-05	1.69E-09	
158	1	Surface	Uranium-235	pCi/g	1.63E-01	3.62E+02		2.43E-02	5.51E-01
158	1	Surface	Uranium-238	pCi/g	3.79E+00	8.41E+03		5.65E-01	1.28E+01
160	1	Surface	Antimony	mg/kg	6.80E-01	8.44E-07	4.13E-07	5.67E-11	
160	1	Surface	Total PAH	mg/kg	5.29E-02	6.57E-08	8.36E-08	3.26E-10	
163	1	Surface	Chromium	mg/kg	4.94E+01	6.14E-05	3.00E-05	4.12E-09	
163	1	Surface	Total PAH	mg/kg	1.63E-01	2.02E-07	2.58E-07	1.01E-09	
165	1	Surface	Antimony	mg/kg	2.20E+00	2.73E-06	1.34E-06	1.84E-10	
165	1	Surface	Arsenic	mg/kg	6.35E+01	7.88E-05	2.32E-05	5.30E-09	
165	1	Surface	Barium	mg/kg	5.84E+02	7.25E-04	3.55E-04	4.87E-08	
165	1	Surface	Beryllium	mg/kg	6.82E-01	8.47E-07	5.80E-08	5.69E-11	
165	1	Surface	Cesium-137	pCi/g	3.47E+00	7.71E+03		5.18E-01	1.17E+01
165	1	Surface	Chromium	mg/kg	3.74E+01	4.64E-05	2.27E-05	3.12E-09	
165	1	Surface	Mercury	mg/kg	3.78E-01	4.69E-07	2.30E-07	9.40E-07	
165	1	Surface	Naphthalene	mg/kg	1.61E+00	2.00E-06	4.90E-06	4.48E-06	
165	1	Surface	Neptunium-237	pCi/g	4.26E-01	9.46E+02		6.36E-02	1.44E+00
165	1	Surface	Nickel	mg/kg	3.47E+01	4.31E-05	1.69E-05	2.89E-09	
165	1	Surface	PCB, Total	mg/kg	8.27E+00	1.03E-05	1.41E-05	1.16E-06	
165	1	Surface	Plutonium-239/240	pCi/g	2.81E+00	6.23E+03		4.18E-01	9.48E+00
165	1	Surface	Silver	mg/kg	3.09E+01	3.84E-05	1.50E-05	2.58E-09	
165	1	Surface	Thorium-230	pCi/g	6.02E+00	1.34E+04		8.98E-01	2.03E+01
165	1	Surface	Total PAH	mg/kg	1.87E+00	2.32E-06	2.95E-06	1.15E-08	
165	1	Surface	Uranium	mg/kg	1.08E+02	1.33E-04	6.53E-05	8.97E-09	
165	1	Surface	Uranium-234	pCi/g	5.76E+01	1.28E+05		8.59E+00	1.94E+02
165	1	Surface	Uranium-235	pCi/g	2.05E+00	4.54E+03		3.05E-01	6.91E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
165	1	Surface	Uranium-238	pCi/g	6.41E+01	1.42E+05		9.56E+00	2.17E+02
169	1	Surface	Aluminum	mg/kg	1.42E+04	1.76E-02	8.63E-03	1.18E-06	
169	1	Surface	Antimony	mg/kg	1.30E+00	1.61E-06	7.90E-07	1.08E-10	
169	1	Surface	Arsenic	mg/kg	2.03E+01	2.52E-05	7.40E-06	1.69E-09	
169	1	Surface	Beryllium	mg/kg	8.00E-01	9.93E-07	6.81E-08	6.67E-11	
169	1	Surface	Chromium	mg/kg	2.15E+02	2.67E-04	1.31E-04	1.79E-08	
169	1	Surface	Copper	mg/kg	3.74E+02	4.65E-04	2.27E-04	3.12E-08	
169	1	Surface	Iron	mg/kg	4.16E+04	5.16E-02	2.53E-02	3.47E-06	
169	1	Surface	Mercury	mg/kg	7.87E+00	9.77E-06	4.78E-06	1.96E-05	
169	1	Surface	Nickel	mg/kg	5.49E+02	6.81E-04	2.67E-04	4.58E-08	
169	1	Surface	PCB, Total	mg/kg	1.00E+01	1.24E-05	1.70E-05	1.41E-06	
169	1	Surface	Thallium	mg/kg	4.60E-01	5.71E-07	2.80E-07	3.84E-11	
169	1	Surface	Total PAH	mg/kg	4.59E+00	5.69E-06	7.25E-06	2.83E-08	
169	1	Surface	Uranium	mg/kg	5.03E+01	6.24E-05	3.06E-05	4.20E-09	
169	1	Surface	Uranium-234	pCi/g	6.55E+00	1.45E+04		9.77E-01	2.21E+01
169	1	Surface	Uranium-235	pCi/g	4.60E-01	1.02E+03		6.86E-02	1.55E+00
169	1	Surface	Uranium-238	pCi/g	8.12E+00	1.80E+04		1.21E+00	2.74E+01
170	1	Surface	Neptunium-237	pCi/g	1.15E-01	2.55E+02		1.72E-02	3.89E-01
170	1	Surface	Uranium-238	pCi/g	1.53E+00	3.40E+03		2.28E-01	5.17E+00
176	1	Surface	Arsenic	mg/kg	4.86E+01	6.03E-05	1.77E-05	4.05E-09	
176	1	Surface	Chromium	mg/kg	4.27E+01	5.31E-05	2.60E-05	3.57E-09	
176	1	Surface	Nickel	mg/kg	1.07E+02	1.33E-04	5.21E-05	8.94E-09	
176	1	Surface	Uranium	mg/kg	2.21E+01	2.74E-05	1.34E-05	1.84E-09	
180	1	Surface	Antimony	mg/kg	5.80E-01	7.20E-07	3.52E-07	4.84E-11	
180	1	Surface	Arsenic	mg/kg	7.48E+01	9.28E-05	2.73E-05	6.24E-09	
180	1	Surface	Chromium	mg/kg	5.54E+01	6.88E-05	3.37E-05	4.62E-09	
180	1	Surface	Mercury	mg/kg	8.28E+00	1.03E-05	5.03E-06	2.06E-05	
180	1	Surface	Nickel	mg/kg	8.77E+01	1.09E-04	4.26E-05	7.31E-09	
180	2	Surface	Antimony	mg/kg	4.58E-01	5.68E-07	2.78E-07	3.82E-11	
180	2	Surface	Arsenic	mg/kg	1.27E+01	1.57E-05	4.61E-06	1.06E-09	
180	2	Surface	Chromium	mg/kg	4.46E+01	5.54E-05	2.71E-05	3.72E-09	
180	2	Surface	Nickel	mg/kg	8.42E+01	1.04E-04	4.09E-05	7.02E-09	
180	2	Surface	Total PAH	mg/kg	9.19E-02	1.14E-07	1.45E-07	5.67E-10	
180	3	Surface	Arsenic	mg/kg	1.34E+01	1.66E-05	4.87E-06	1.11E-09	
180	3	Surface	Chromium	mg/kg	4.69E+01	5.83E-05	2.85E-05	3.92E-09	
180	3	Surface	Nickel	mg/kg	6.77E+01	8.40E-05	3.29E-05	5.65E-09	
180	3	Surface	Silver	mg/kg	1.14E+01	1.42E-05	5.54E-06	9.51E-10	
180	4	Surface	Arsenic	mg/kg	1.15E+01	1.43E-05	4.20E-06	9.62E-10	
180	4	Surface	Barium	mg/kg	2.13E+02	2.64E-04	1.29E-04	1.78E-08	
180	4	Surface	Beryllium	mg/kg	1.60E+00	1.99E-06	1.36E-07	1.33E-10	
180	4	Surface	Chromium	mg/kg	6.00E+01	7.45E-05	3.65E-05	5.01E-09	
180	4	Surface	Iron	mg/kg	1.54E+04	1.91E-02	9.34E-03	1.28E-06	
180	4	Surface	Manganese	mg/kg	7.09E+02	8.80E-04	3.45E-04	5.91E-08	
180	4	Surface	Nickel	mg/kg	6.46E+01	8.02E-05	3.14E-05	5.39E-09	
180	4	Surface	Silver	mg/kg	9.68E+00	1.20E-05	4.71E-06	8.07E-10	
180	4	Surface	Total PAH	mg/kg	2.15E-02	2.67E-08	3.40E-08	1.33E-10	
180	4	Surface	Vanadium	mg/kg	4.85E+01	6.02E-05	1.53E-05	4.05E-09	
181	1	Surface	Chromium	mg/kg	2.29E+01	2.84E-05	1.39E-05	1.91E-09	
181	1	Surface	Thallium	mg/kg	3.50E+00	4.34E-06	2.13E-06	2.92E-10	
181	1	Surface	Total PAH	mg/kg	3.43E-02	4.26E-08	5.42E-08	2.12E-10	
194	1	Surface	Antimony	mg/kg	1.50E+00	1.86E-06	9.12E-07	1.25E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	1	Surface	Chromium	mg/kg	3.87E+01	4.80E-05	2.35E-05	3.23E-09	
194	1	Surface	Mercury	mg/kg	6.71E+00	8.33E-06	4.08E-06	1.67E-05	
194	1	Surface	Nickel	mg/kg	5.84E+01	7.25E-05	2.84E-05	4.87E-09	
194	1	Surface	Silver	mg/kg	1.09E+01	1.36E-05	5.31E-06	9.12E-10	
194	2	Surface	Chromium	mg/kg	5.96E+01	7.40E-05	3.62E-05	4.97E-09	
194	2	Surface	Silver	mg/kg	1.31E+01	1.63E-05	6.38E-06	1.10E-09	
194	2	Surface	Uranium	mg/kg	2.28E+01	2.83E-05	1.38E-05	1.90E-09	
194	2	Surface	Uranium-238	pCi/g	1.42E+00	3.15E+03		2.12E-01	4.80E+00
194	3	Surface	Antimony	mg/kg	6.90E-01	8.56E-07	4.19E-07	5.76E-11	
194	3	Surface	Arsenic	mg/kg	1.46E+01	1.82E-05	5.34E-06	1.22E-09	
194	3	Surface	Chromium	mg/kg	3.90E+01	4.84E-05	2.37E-05	3.25E-09	
194	3	Surface	Nickel	mg/kg	6.40E+01	7.95E-05	3.11E-05	5.34E-09	
194	3	Surface	Total PAH	mg/kg	3.93E-02	4.88E-08	6.21E-08	2.42E-10	
194	3	Surface	Uranium-238	pCi/g	1.28E+00	2.85E+03		1.92E-01	4.34E+00
194	4	Surface	Chromium	mg/kg	4.84E+01	6.01E-05	2.94E-05	4.04E-09	
194	4	Surface	Mercury	mg/kg	8.92E+00	1.11E-05	5.42E-06	2.22E-05	
194	4	Surface	Nickel	mg/kg	6.91E+01	8.57E-05	3.36E-05	5.76E-09	
194	4	Surface	Silver	mg/kg	1.18E+01	1.46E-05	5.73E-06	9.83E-10	
194	4	Surface	Total PAH	mg/kg	7.30E-02	9.06E-08	1.15E-07	4.50E-10	
194	4	Surface	Uranium-238	pCi/g	1.73E+00	3.84E+03		2.58E-01	5.85E+00
194	5	Surface	Chromium	mg/kg	4.58E+01	5.68E-05	2.78E-05	3.82E-09	
194	5	Surface	Mercury	mg/kg	8.69E+00	1.08E-05	5.28E-06	2.16E-05	
194	5	Surface	Nickel	mg/kg	7.54E+01	9.36E-05	3.67E-05	6.29E-09	
194	5	Surface	Silver	mg/kg	1.25E+01	1.55E-05	6.05E-06	1.04E-09	
194	5	Surface	Total PAH	mg/kg	2.37E-02	2.94E-08	3.74E-08	1.46E-10	
194	5	Surface	Uranium-238	pCi/g	1.38E+00	3.06E+03		2.06E-01	4.66E+00
194	6	Surface	Chromium	mg/kg	3.70E+01	4.59E-05	2.25E-05	3.09E-09	
194	6	Surface	Manganese	mg/kg	1.08E+03	1.34E-03	5.25E-04	9.01E-08	
194	6	Surface	Nickel	mg/kg	8.06E+01	1.00E-04	3.92E-05	6.72E-09	
194	6	Surface	Silver	mg/kg	9.89E+00	1.23E-05	4.81E-06	8.25E-10	
194	6	Surface	Uranium-238	pCi/g	1.32E+00	2.93E+03		1.97E-01	4.46E+00
194	7	Surface	Chromium	mg/kg	5.32E+01	6.60E-05	3.23E-05	4.44E-09	
194	7	Surface	Nickel	mg/kg	7.71E+01	9.58E-05	3.75E-05	6.43E-09	
194	7	Surface	Silver	mg/kg	1.25E+01	1.55E-05	6.08E-06	1.04E-09	
194	8	Surface	Chromium	mg/kg	5.36E+01	6.65E-05	3.26E-05	4.47E-09	
194	8	Surface	Manganese	mg/kg	8.00E+02	9.93E-04	3.89E-04	6.67E-08	
194	8	Surface	Total PAH	mg/kg	4.85E-01	6.02E-07	7.66E-07	2.99E-09	
194	8	Surface	Uranium-238	pCi/g	1.39E+00	3.09E+03		2.07E-01	4.70E+00
194	9	Surface	Arsenic	mg/kg	1.14E+01	1.42E-05	4.16E-06	9.53E-10	
194	9	Surface	Chromium	mg/kg	5.17E+01	6.41E-05	3.14E-05	4.31E-09	
194	10	Surface	Arsenic	mg/kg	1.22E+01	1.51E-05	4.43E-06	1.01E-09	
194	10	Surface	Cesium-137	pCi/g	5.81E-01	1.29E+03		8.67E-02	1.96E+00
194	10	Surface	Chromium	mg/kg	3.63E+01	4.50E-05	2.21E-05	3.03E-09	
194	10	Surface	Nickel	mg/kg	7.60E+01	9.43E-05	3.69E-05	6.34E-09	
194	10	Surface	Total PAH	mg/kg	2.57E-01	3.19E-07	4.06E-07	1.59E-09	
194	10	Surface	Uranium-238	pCi/g	1.49E+00	3.31E+03		2.22E-01	5.03E+00
194	11	Surface	Chromium	mg/kg	3.27E+01	4.06E-05	1.99E-05	2.73E-09	
194	11	Surface	Mercury	mg/kg	8.09E+00	1.00E-05	4.92E-06	2.01E-05	
194	11	Surface	Nickel	mg/kg	1.01E+02	1.25E-04	4.89E-05	8.40E-09	
194	11	Surface	PCB, Total	mg/kg	8.40E-02	1.04E-07	1.43E-07	1.18E-08	
194	11	Surface	Silver	mg/kg	1.33E+01	1.65E-05	6.46E-06	1.11E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	11	Surface	Total PAH	mg/kg	7.95E-02	9.87E-08	1.26E-07	4.91E-10	
194	12	Surface	Chromium	mg/kg	6.34E+01	7.86E-05	3.85E-05	5.29E-09	
194	12	Surface	Nickel	mg/kg	7.86E+01	9.76E-05	3.82E-05	6.56E-09	
194	12	Surface	Silver	mg/kg	1.20E+01	1.49E-05	5.82E-06	9.99E-10	
194	12	Surface	Total PAH	mg/kg	8.91E-01	1.11E-06	1.41E-06	5.50E-09	
194	13	Surface	Chromium	mg/kg	4.77E+01	5.91E-05	2.90E-05	3.97E-09	
194	13	Surface	Nickel	mg/kg	6.03E+01	7.49E-05	2.93E-05	5.03E-09	
194	13	Surface	Total PAH	mg/kg	9.13E-02	1.13E-07	1.44E-07	5.63E-10	
194	14	Surface	Chromium	mg/kg	5.21E+01	6.47E-05	3.17E-05	4.35E-09	
194	14	Surface	Mercury	mg/kg	8.14E+00	1.01E-05	4.95E-06	2.02E-05	
194	15	Surface	Chromium	mg/kg	5.33E+01	6.62E-05	3.24E-05	4.45E-09	
194	15	Surface	Silver	mg/kg	1.03E+01	1.28E-05	5.01E-06	8.60E-10	
194	16	Surface	Antimony	mg/kg	7.40E-01	9.19E-07	4.50E-07	6.17E-11	
194	16	Surface	Arsenic	mg/kg	1.15E+01	1.43E-05	4.20E-06	9.61E-10	
194	16	Surface	Beryllium	mg/kg	8.70E-01	1.08E-06	7.40E-08	7.26E-11	
194	16	Surface	Chromium	mg/kg	5.32E+01	6.61E-05	3.24E-05	4.44E-09	
194	16	Surface	Nickel	mg/kg	7.20E+01	8.94E-05	3.50E-05	6.01E-09	
194	16	Surface	Thallium	mg/kg	6.30E-01	7.82E-07	3.83E-07	5.26E-11	
194	16	Surface	Vanadium	mg/kg	4.11E+01	5.10E-05	1.30E-05	3.43E-09	
194	17	Surface	Arsenic	mg/kg	1.16E+01	1.43E-05	4.21E-06	9.63E-10	
194	17	Surface	Cadmium	mg/kg	1.10E+00	1.37E-06	1.34E-08	9.18E-11	
194	17	Surface	Chromium	mg/kg	4.65E+01	5.77E-05	2.82E-05	3.88E-09	
194	17	Surface	Total PAH	mg/kg	1.59E-01	1.97E-07	2.51E-07	9.79E-10	
194	18	Surface	Arsenic	mg/kg	1.06E+01	1.31E-05	3.85E-06	8.82E-10	
194	18	Surface	Beryllium	mg/kg	7.40E-01	9.19E-07	6.30E-08	6.17E-11	
194	18	Surface	Chromium	mg/kg	6.85E+01	8.50E-05	4.16E-05	5.71E-09	
194	18	Surface	Nickel	mg/kg	5.78E+01	7.17E-05	2.81E-05	4.82E-09	
194	19	Surface	Arsenic	mg/kg	1.07E+01	1.33E-05	3.90E-06	8.92E-10	
194	19	Surface	Chromium	mg/kg	4.84E+01	6.00E-05	2.94E-05	4.03E-09	
194	19	Surface	Nickel	mg/kg	5.84E+01	7.25E-05	2.84E-05	4.87E-09	
194	20	Surface	Arsenic	mg/kg	1.18E+01	1.47E-05	4.32E-06	9.88E-10	
194	20	Surface	Barium	mg/kg	3.26E+02	4.05E-04	1.98E-04	2.72E-08	
194	20	Surface	Beryllium	mg/kg	1.10E+00	1.37E-06	9.36E-08	9.18E-11	
194	20	Surface	Chromium	mg/kg	5.24E+01	6.50E-05	3.18E-05	4.37E-09	
194	20	Surface	Cobalt	mg/kg	2.11E+01	2.62E-05	1.28E-05	1.76E-09	
194	20	Surface	Manganese	mg/kg	2.29E+03	2.85E-03	1.12E-03	1.91E-07	
194	20	Surface	Mercury	mg/kg	7.28E+00	9.04E-06	4.42E-06	1.81E-05	
194	20	Surface	Nickel	mg/kg	6.57E+01	8.16E-05	3.19E-05	5.48E-09	
194	20	Surface	Silver	mg/kg	1.22E+01	1.52E-05	5.94E-06	1.02E-09	
194	20	Surface	Total PAH	mg/kg	3.10E-02	3.85E-08	4.90E-08	1.91E-10	
194	20	Surface	Vanadium	mg/kg	3.81E+01	4.73E-05	1.20E-05	3.18E-09	
194	21	Surface	Antimony	mg/kg	9.30E-01	1.15E-06	5.65E-07	7.76E-11	
194	21	Surface	Chromium	mg/kg	5.51E+01	6.84E-05	3.35E-05	4.60E-09	
194	21	Surface	Mercury	mg/kg	6.62E+00	8.22E-06	4.02E-06	1.65E-05	
194	21	Surface	Nickel	mg/kg	7.01E+01	8.70E-05	3.41E-05	5.85E-09	
194	21	Surface	Thallium	mg/kg	6.40E-01	7.94E-07	3.89E-07	5.34E-11	
194	22	Surface	Chromium	mg/kg	4.90E+01	6.08E-05	2.98E-05	4.09E-09	
194	22	Surface	Manganese	mg/kg	8.19E+02	1.02E-03	3.98E-04	6.83E-08	
194	22	Surface	PCB, Total	mg/kg	1.09E+01	1.36E-05	1.86E-05	1.54E-06	
194	23	Surface	Arsenic	mg/kg	1.16E+01	1.43E-05	4.21E-06	9.63E-10	
194	23	Surface	Chromium	mg/kg	6.60E+01	8.19E-05	4.01E-05	5.50E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	23	Surface	Iron	mg/kg	1.83E+04	2.27E-02	1.11E-02	1.53E-06	
194	23	Surface	Nickel	mg/kg	8.77E+01	1.09E-04	4.26E-05	7.31E-09	
194	23	Surface	Silver	mg/kg	1.15E+01	1.42E-05	5.58E-06	9.58E-10	
194	24	Surface	Chromium	mg/kg	5.02E+01	6.23E-05	3.05E-05	4.19E-09	
194	24	Surface	Nickel	mg/kg	7.08E+01	8.78E-05	3.44E-05	5.90E-09	
194	24	Surface	Total PAH	mg/kg	2.28E-02	2.83E-08	3.60E-08	1.41E-10	
194	25	Surface	Barium	mg/kg	3.00E+02	3.72E-04	1.82E-04	2.50E-08	
194	25	Surface	Chromium	mg/kg	6.13E+01	7.60E-05	3.72E-05	5.11E-09	
194	25	Surface	Manganese	mg/kg	9.96E+02	1.24E-03	4.84E-04	8.31E-08	
194	25	Surface	Nickel	mg/kg	6.33E+01	7.86E-05	3.08E-05	5.28E-09	
194	25	Surface	Total PAH	mg/kg	2.06E-02	2.56E-08	3.25E-08	1.27E-10	
194	26	Surface	Beryllium	mg/kg	7.00E-01	8.69E-07	5.96E-08	5.84E-11	
194	26	Surface	Chromium	mg/kg	4.18E+01	5.19E-05	2.54E-05	3.49E-09	
194	26	Surface	Silver	mg/kg	1.03E+01	1.27E-05	4.99E-06	8.57E-10	
194	26	Surface	Thallium	mg/kg	3.90E-01	4.84E-07	2.37E-07	3.25E-11	
194	27	Surface	Chromium	mg/kg	5.22E+01	6.48E-05	3.17E-05	4.35E-09	
194	27	Surface	Nickel	mg/kg	6.55E+01	8.13E-05	3.18E-05	5.46E-09	
194	27	Surface	Silver	mg/kg	1.01E+01	1.26E-05	4.92E-06	8.44E-10	
194	28	Surface	Arsenic	mg/kg	1.20E+01	1.49E-05	4.39E-06	1.00E-09	
194	28	Surface	Beryllium	mg/kg	7.10E-01	8.81E-07	6.04E-08	5.92E-11	
194	28	Surface	Chromium	mg/kg	6.07E+01	7.53E-05	3.69E-05	5.06E-09	
194	28	Surface	Manganese	mg/kg	1.14E+03	1.41E-03	5.53E-04	9.49E-08	
194	28	Surface	Nickel	mg/kg	6.95E+01	8.62E-05	3.38E-05	5.79E-09	
194	28	Surface	Silver	mg/kg	1.08E+01	1.34E-05	5.25E-06	9.00E-10	
194	28	Surface	Vanadium	mg/kg	4.06E+01	5.04E-05	1.28E-05	3.39E-09	
194	29	Surface	Antimony	mg/kg	7.10E-01	8.81E-07	4.31E-07	5.92E-11	
194	29	Surface	Chromium	mg/kg	5.06E+01	6.28E-05	3.07E-05	4.22E-09	
194	29	Surface	Nickel	mg/kg	6.51E+01	8.08E-05	3.16E-05	5.43E-09	
194	29	Surface	Silver	mg/kg	9.77E+00	1.21E-05	4.75E-06	8.15E-10	
194	30	Surface	Chromium	mg/kg	5.66E+01	7.02E-05	3.44E-05	4.72E-09	
194	30	Surface	Mercury	mg/kg	8.80E+00	1.09E-05	5.35E-06	2.19E-05	
194	30	Surface	Nickel	mg/kg	6.99E+01	8.67E-05	3.40E-05	5.83E-09	
194	30	Surface	Silver	mg/kg	9.76E+00	1.21E-05	4.74E-06	8.14E-10	
194	31	Surface	Cesium-137	pCi/g	5.70E-01	1.27E+03		8.50E-02	1.93E+00
194	31	Surface	Uranium-238	pCi/g	1.72E+00	3.82E+03		2.57E-01	5.81E+00
195	1	Surface	Chromium	mg/kg	6.33E+01	7.85E-05	3.84E-05	5.28E-09	
195	1	Surface	Nickel	mg/kg	7.02E+01	8.71E-05	3.41E-05	5.86E-09	
195	1	Surface	Silver	mg/kg	9.37E+00	1.16E-05	4.56E-06	7.82E-10	
195	2	Surface	Chromium	mg/kg	4.52E+01	5.61E-05	2.75E-05	3.77E-09	
195	2	Surface	Silver	mg/kg	9.48E+00	1.18E-05	4.61E-06	7.91E-10	
195	2	Surface	Total PAH	mg/kg	2.68E-02	3.33E-08	4.23E-08	1.65E-10	
195	3	Surface	Chromium	mg/kg	5.03E+01	6.24E-05	3.06E-05	4.20E-09	
195	3	Surface	Nickel	mg/kg	5.22E+01	6.47E-05	2.54E-05	4.35E-09	
195	3	Surface	Total PAH	mg/kg	4.06E-02	5.04E-08	6.41E-08	2.50E-10	
195	4	Surface	Chromium	mg/kg	5.29E+01	6.57E-05	3.21E-05	4.41E-09	
195	4	Surface	Nickel	mg/kg	6.23E+01	7.73E-05	3.03E-05	5.20E-09	
195	5	Surface	Chromium	mg/kg	5.74E+01	7.13E-05	3.49E-05	4.79E-09	
195	5	Surface	Nickel	mg/kg	8.11E+01	1.01E-04	3.94E-05	6.77E-09	
195	5	Surface	Total PAH	mg/kg	2.40E-02	2.98E-08	3.79E-08	1.48E-10	
195	6	Surface	Chromium	mg/kg	4.45E+01	5.53E-05	2.71E-05	3.72E-09	
195	6	Surface	Nickel	mg/kg	8.71E+01	1.08E-04	4.23E-05	7.27E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
195	6	Surface	Total PAH	mg/kg	2.48E-01	3.07E-07	3.91E-07	1.53E-09	
195	7	Surface	Chromium	mg/kg	4.93E+01	6.11E-05	2.99E-05	4.11E-09	
195	7	Surface	Silver	mg/kg	8.06E+00	1.00E-05	3.92E-06	6.72E-10	
195	8	Surface	Arsenic	mg/kg	1.16E+01	1.43E-05	4.22E-06	9.64E-10	
195	8	Surface	Beryllium	mg/kg	7.40E-01	9.19E-07	6.30E-08	6.17E-11	
195	8	Surface	Chromium	mg/kg	6.79E+01	8.43E-05	4.13E-05	5.67E-09	
195	8	Surface	Cobalt	mg/kg	1.82E+01	2.26E-05	1.11E-05	1.52E-09	
195	8	Surface	Nickel	mg/kg	7.01E+01	8.70E-05	3.41E-05	5.85E-09	
195	8	Surface	Total PAH	mg/kg	2.16E-01	2.68E-07	3.41E-07	1.33E-09	
195	8	Surface	Vanadium	mg/kg	4.04E+01	5.01E-05	1.28E-05	3.37E-09	
195	9	Surface	Chromium	mg/kg	6.08E+01	7.55E-05	3.69E-05	5.07E-09	
195	9	Surface	Nickel	mg/kg	7.93E+01	9.84E-05	3.85E-05	6.61E-09	
195	10	Surface	Chromium	mg/kg	4.51E+01	5.59E-05	2.74E-05	3.76E-09	
195	10	Surface	Nickel	mg/kg	7.40E+01	9.19E-05	3.60E-05	6.17E-09	
195	10	Surface	Silver	mg/kg	1.31E+01	1.63E-05	6.37E-06	1.09E-09	
195	11	Surface	Aluminum	mg/kg	2.81E+04	3.49E-02	1.71E-02	2.34E-06	
195	11	Surface	Arsenic	mg/kg	1.35E+01	1.67E-05	4.91E-06	1.12E-09	
195	11	Surface	Barium	mg/kg	4.53E+02	5.62E-04	2.75E-04	3.78E-08	
195	11	Surface	Chromium	mg/kg	5.05E+01	6.27E-05	3.07E-05	4.21E-09	
195	11	Surface	Cobalt	mg/kg	2.77E+01	3.44E-05	1.68E-05	2.31E-09	
195	11	Surface	Iron	mg/kg	1.97E+04	2.45E-02	1.20E-02	1.64E-06	
195	11	Surface	Nickel	mg/kg	6.77E+01	8.40E-05	3.29E-05	5.65E-09	
195	11	Surface	Thallium	mg/kg	6.60E-01	8.19E-07	4.01E-07	5.51E-11	
195	11	Surface	Vanadium	mg/kg	7.97E+01	9.89E-05	2.52E-05	6.65E-09	
195	12	Surface	Beryllium	mg/kg	7.50E-01	9.31E-07	6.38E-08	6.26E-11	
195	12	Surface	Chromium	mg/kg	7.04E+01	8.74E-05	4.28E-05	5.87E-09	
195	12	Surface	Nickel	mg/kg	6.78E+01	8.41E-05	3.29E-05	5.65E-09	
195	13	Surface	Chromium	mg/kg	6.55E+01	8.13E-05	3.98E-05	5.46E-09	
195	13	Surface	Nickel	mg/kg	6.91E+01	8.57E-05	3.36E-05	5.76E-09	
195	14	Surface	Chromium	mg/kg	5.94E+01	7.38E-05	3.61E-05	4.96E-09	
195	14	Surface	Nickel	mg/kg	7.04E+01	8.73E-05	3.42E-05	5.87E-09	
195	15	Surface	Chromium	mg/kg	4.82E+01	5.98E-05	2.93E-05	4.02E-09	
195	16	Surface	Chromium	mg/kg	4.45E+01	5.52E-05	2.70E-05	3.71E-09	
195	16	Surface	Nickel	mg/kg	8.16E+01	1.01E-04	3.97E-05	6.80E-09	
195	17	Surface	Chromium	mg/kg	8.22E+01	1.02E-04	4.99E-05	6.85E-09	
195	17	Surface	Mercury	mg/kg	4.17E-01	5.18E-07	2.53E-07	1.04E-06	
195	17	Surface	Nickel	mg/kg	5.93E+01	7.37E-05	2.88E-05	4.95E-09	
195	17	Surface	PCB, Total	mg/kg	7.40E-01	9.19E-07	1.26E-06	1.04E-07	
195	17	Surface	Silver	mg/kg	1.01E+01	1.26E-05	4.93E-06	8.46E-10	
195	17	Surface	Thallium	mg/kg	5.40E-01	6.70E-07	3.28E-07	4.50E-11	
195	17	Surface	Total PAH	mg/kg	3.16E-01	3.92E-07	4.99E-07	1.95E-09	
195	17	Surface	Uranium-235	pCi/g	1.32E-01	2.93E+02		1.97E-02	4.46E-01
195	17	Surface	Uranium-238	pCi/g	2.48E+00	5.51E+03		3.70E-01	8.38E+00
196	1	Surface	Antimony	mg/kg	5.90E-01	7.32E-07	3.59E-07	4.92E-11	
196	1	Surface	Chromium	mg/kg	1.96E+01	2.43E-05	1.19E-05	1.63E-09	
196	1	Surface	Neptunium-237	pCi/g	3.11E-01	6.90E+02		4.64E-02	1.05E+00
196	1	Surface	Nickel	mg/kg	5.56E+02	6.90E-04	2.70E-04	4.64E-08	
196	1	Surface	Uranium	mg/kg	2.33E+01	2.89E-05	1.42E-05	1.94E-09	
196	1	Surface	Uranium-238	pCi/g	1.54E+00	3.42E+03		2.30E-01	5.20E+00
196	2	Surface	Barium	mg/kg	2.02E+02	2.51E-04	1.23E-04	1.69E-08	
196	2	Surface	Cadmium	mg/kg	2.53E+00	3.14E-06	3.07E-08	2.11E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
196	2	Surface	Chromium	mg/kg	2.07E+01	2.57E-05	1.26E-05	1.73E-09	
196	2	Surface	Nickel	mg/kg	7.36E+01	9.14E-05	3.58E-05	6.14E-09	
196	2	Surface	PCB, Total	mg/kg	1.51E+00	1.87E-06	2.57E-06	2.12E-07	
196	2	Surface	Total PAH	mg/kg	6.80E-01	8.44E-07	1.07E-06	4.19E-09	
196	2	Surface	Uranium-238	pCi/g	2.21E+00	4.91E+03		3.30E-01	7.47E+00
200	1	Surface	Antimony	mg/kg	5.60E-01	6.95E-07	3.40E-07	4.67E-11	
200	1	Surface	Cesium-137	pCi/g	5.74E-01	1.27E+03		8.56E-02	1.94E+00
200	1	Surface	Chromium	mg/kg	5.75E+01	7.14E-05	3.50E-05	4.80E-09	
200	1	Surface	Mercury	mg/kg	6.71E+00	8.33E-06	4.08E-06	1.67E-05	
200	1	Surface	Nickel	mg/kg	1.28E+02	1.59E-04	6.22E-05	1.07E-08	
200	1	Surface	PCB, Total	mg/kg	2.60E+00	3.23E-06	4.42E-06	3.66E-07	
200	1	Surface	Total PAH	mg/kg	2.84E-02	3.53E-08	4.49E-08	1.75E-10	
200	1	Surface	Uranium	mg/kg	2.73E+01	3.39E-05	1.66E-05	2.28E-09	
200	1	Surface	Uranium-235	pCi/g	1.43E-01	3.17E+02		2.13E-02	4.83E-01
200	1	Surface	Uranium-238	pCi/g	3.58E+00	7.94E+03		5.34E-01	1.21E+01
204	1	Surface	Aluminum	mg/kg	1.48E+04	1.84E-02	8.99E-03	1.23E-06	
204	1	Surface	Beryllium	mg/kg	1.36E+00	1.69E-06	1.16E-07	1.13E-10	
204	1	Surface	Cadmium	mg/kg	2.73E+00	3.39E-06	3.32E-08	2.28E-10	
204	1	Surface	Chromium	mg/kg	7.40E+01	9.19E-05	4.50E-05	6.17E-09	
204	1	Surface	Iron	mg/kg	4.19E+04	5.20E-02	2.55E-02	3.50E-06	
204	1	Surface	PCB, Total	mg/kg	2.53E+00	3.14E-06	4.30E-06	3.56E-07	
204	1	Surface	Uranium-235	pCi/g	1.80E-01	4.00E+02		2.69E-02	6.08E-01
204	1	Surface	Uranium-238	pCi/g	5.20E+00	1.15E+04		7.76E-01	1.76E+01
204	1	Surface	Vanadium	mg/kg	7.55E+01	9.37E-05	2.39E-05	6.30E-09	
204	2	Surface	Aluminum	mg/kg	1.37E+04	1.70E-02	8.33E-03	1.14E-06	
204	2	Surface	Chromium	mg/kg	1.80E+01	2.23E-05	1.09E-05	1.50E-09	
204	2	Surface	PCB, Total	mg/kg	1.70E-01	2.11E-07	2.89E-07	2.39E-08	
204	3	Surface	Chromium	mg/kg	2.06E+01	2.56E-05	1.25E-05	1.72E-09	
204	3	Surface	Uranium-238	pCi/g	2.50E+00	5.55E+03		3.73E-01	8.45E+00
204	4	Surface	Antimony	mg/kg	1.10E+00	1.37E-06	6.68E-07	9.18E-11	
204	4	Surface	Chromium	mg/kg	2.89E+01	3.59E-05	1.76E-05	2.41E-09	
204	4	Surface	Uranium-235	pCi/g	1.88E-01	4.17E+02		2.80E-02	6.35E-01
204	4	Surface	Uranium-238	pCi/g	9.72E+00	2.16E+04		1.45E+00	3.29E+01
204	18	Surface	Cesium-137	pCi/g	6.30E-01	1.40E+03		9.40E-02	2.13E+00
204	18	Surface	Uranium	mg/kg	1.60E+01	1.99E-05	9.72E-06	1.33E-09	
204	18	Surface	Uranium-235	pCi/g	1.25E-01	2.78E+02		1.86E-02	4.22E-01
204	18	Surface	Uranium-238	pCi/g	5.37E+00	1.19E+04		8.01E-01	1.81E+01
204	23	Surface	Americium-241	pCi/g	3.71E+00	8.23E+03		5.53E-01	1.25E+01
204	23	Surface	Beryllium	mg/kg	1.33E+00	1.65E-06	1.13E-07	1.11E-10	
204	23	Surface	Cesium-137	pCi/g	1.17E+00	2.60E+03		1.75E-01	3.96E+00
204	23	Surface	Chromium	mg/kg	1.75E+02	2.17E-04	1.06E-04	1.46E-08	
204	23	Surface	Cobalt-60	pCi/g	1.23E-02	2.72E+01		1.83E-03	4.14E-02
204	23	Surface	PCB, Total	mg/kg	7.90E+01	9.81E-05	1.34E-04	1.11E-05	
204	23	Surface	Uranium	mg/kg	1.31E+04	1.62E-02	7.94E-03	1.09E-06	
204	23	Surface	Uranium-234	pCi/g	4.45E+02	9.88E+05		6.64E+01	1.50E+03
204	23	Surface	Uranium-235	pCi/g	5.70E+01	1.27E+05		8.50E+00	1.93E+02
204	23	Surface	Uranium-238	pCi/g	4.39E+03	9.74E+06		6.54E+02	1.48E+04
211	1	Surface	Chromium	mg/kg	4.48E+01	5.55E-05	2.72E-05	3.73E-09	
211	1	Surface	Neptunium-237	pCi/g	1.46E-01	3.24E+02		2.18E-02	4.93E-01
211	1	Surface	PCB, Total	mg/kg	3.60E-01	4.47E-07	6.13E-07	5.06E-08	
211	1	Surface	Total PAH	mg/kg	1.04E-01	1.29E-07	1.64E-07	6.40E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
211	1	Surface	Uranium	mg/kg	2.19E+01	2.71E-05	1.33E-05	1.82E-09	
211	1	Surface	Uranium-235	pCi/g	2.12E-01	4.71E+02		3.16E-02	7.16E-01
211	1	Surface	Uranium-238	pCi/g	5.84E+00	1.30E+04		8.71E-01	1.97E+01
212	1	Surface	Arsenic	mg/kg	1.44E+01	1.79E-05	5.26E-06	1.20E-09	
212	1	Surface	Beryllium	mg/kg	8.10E-01	1.01E-06	6.89E-08	6.76E-11	
212	1	Surface	Cesium-137	pCi/g	6.01E-01	1.33E+03		8.97E-02	2.03E+00
212	1	Surface	Chromium	mg/kg	3.58E+01	4.44E-05	2.18E-05	2.99E-09	
212	1	Surface	Cobalt-60	pCi/g	8.76E-03	1.94E+01		1.31E-03	2.96E-02
212	1	Surface	Iron	mg/kg	4.14E+04	5.14E-02	2.52E-02	3.45E-06	
212	1	Surface	Neptunium-237	pCi/g	4.00E+00	8.88E+03		5.97E-01	1.35E+01
212	1	Surface	Nickel	mg/kg	8.69E+01	1.08E-04	4.23E-05	7.25E-09	
212	1	Surface	PCB, Total	mg/kg	1.80E-01	2.23E-07	3.06E-07	2.53E-08	
212	1	Surface	Plutonium-239/240	pCi/g	6.71E+00	1.49E+04		1.00E+00	2.27E+01
212	1	Surface	Thorium-230	pCi/g	2.60E+02	5.77E+05		3.88E+01	8.79E+02
212	1	Surface	Uranium	mg/kg	2.30E+01	2.85E-05	1.40E-05	1.92E-09	
212	1	Surface	Uranium-235	pCi/g	2.09E-01	4.64E+02		3.12E-02	7.06E-01
212	1	Surface	Uranium-238	pCi/g	3.17E+00	7.04E+03		4.73E-01	1.07E+01
213	1	Surface	Antimony	mg/kg	8.50E-01	1.06E-06	5.17E-07	7.09E-11	
213	1	Surface	Chromium	mg/kg	4.78E+01	5.93E-05	2.91E-05	3.99E-09	
213	1	Surface	Nickel	mg/kg	6.67E+01	8.28E-05	3.24E-05	5.57E-09	
213	1	Surface	PCB, Total	mg/kg	7.30E-02	9.06E-08	1.24E-07	1.03E-08	
213	1	Surface	Silver	mg/kg	1.32E+01	1.63E-05	6.40E-06	1.10E-09	
213	1	Surface	Total PAH	mg/kg	1.72E-01	2.13E-07	2.72E-07	1.06E-09	
213	1	Surface	Uranium-238	pCi/g	2.33E+00	5.17E+03		3.48E-01	7.87E+00
213	2	Surface	Chromium	mg/kg	4.48E+01	5.56E-05	2.72E-05	3.74E-09	
213	2	Surface	Nickel	mg/kg	9.10E+01	1.13E-04	4.42E-05	7.59E-09	
213	2	Surface	Silver	mg/kg	1.13E+01	1.40E-05	5.47E-06	9.39E-10	
214	1	Surface	Antimony	mg/kg	5.70E-01	7.08E-07	3.46E-07	4.75E-11	
215	1	Surface	Antimony	mg/kg	6.80E-01	8.44E-07	4.13E-07	5.67E-11	
215	1	Surface	Chromium	mg/kg	5.73E+01	7.11E-05	3.48E-05	4.78E-09	
215	1	Surface	Iron	mg/kg	3.87E+04	4.80E-02	2.35E-02	3.23E-06	
215	1	Surface	Nickel	mg/kg	7.32E+01	9.08E-05	3.56E-05	6.10E-09	
215	1	Surface	Total PAH	mg/kg	8.09E-02	1.00E-07	1.28E-07	4.99E-10	
216	1	Surface	Chromium	mg/kg	2.38E+01	2.95E-05	1.45E-05	1.99E-09	
216	1	Surface	Total PAH	mg/kg	1.49E-01	1.85E-07	2.36E-07	9.21E-10	
216	1	Surface	Uranium-238	pCi/g	1.33E+00	2.95E+03		1.98E-01	4.49E+00
217	1	Surface	Chromium	mg/kg	8.58E+01	1.06E-04	5.21E-05	7.15E-09	
217	1	Surface	Cobalt	mg/kg	1.96E+01	2.43E-05	1.19E-05	1.63E-09	
217	1	Surface	Manganese	mg/kg	7.70E+02	9.55E-04	3.74E-04	6.42E-08	
217	1	Surface	Nickel	mg/kg	8.54E+01	1.06E-04	4.15E-05	7.13E-09	
217	1	Surface	Silver	mg/kg	1.35E+01	1.67E-05	6.54E-06	1.12E-09	
217	1	Surface	Uranium-238	pCi/g	1.15E+00	2.56E+03		1.72E-01	3.90E+00
217	2	Surface	Antimony	mg/kg	1.70E+00	2.11E-06	1.03E-06	1.42E-10	
217	2	Surface	Arsenic	mg/kg	1.12E+01	1.39E-05	4.07E-06	9.31E-10	
217	2	Surface	Chromium	mg/kg	1.02E+02	1.26E-04	6.17E-05	8.48E-09	
217	2	Surface	Cobalt	mg/kg	1.74E+01	2.16E-05	1.06E-05	1.45E-09	
217	2	Surface	Iron	mg/kg	3.09E+04	3.84E-02	1.88E-02	2.58E-06	
217	2	Surface	Manganese	mg/kg	8.44E+02	1.05E-03	4.10E-04	7.04E-08	
217	2	Surface	Mercury	mg/kg	8.59E+00	1.07E-05	5.22E-06	2.14E-05	
217	2	Surface	Nickel	mg/kg	9.74E+01	1.21E-04	4.73E-05	8.12E-09	
217	2	Surface	Silver	mg/kg	1.61E+01	2.00E-05	7.82E-06	1.34E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
217	2	Surface	Total PAH	mg/kg	5.05E-01	6.27E-07	7.98E-07	3.11E-09	
219	1	Surface	Neptunium-237	pCi/g	3.31E-01	7.35E+02		4.94E-02	1.12E+00
219	1	Surface	Nickel	mg/kg	6.71E+01	8.33E-05	3.26E-05	5.60E-09	
219	1	Surface	Total PAH	mg/kg	7.50E-02	9.31E-08	1.19E-07	4.63E-10	
219	1	Surface	Uranium-235	pCi/g	1.92E-01	4.26E+02		2.86E-02	6.49E-01
219	1	Surface	Uranium-238	pCi/g	4.40E+00	9.77E+03		6.56E-01	1.49E+01
221	1	Surface	Barium	mg/kg	2.21E+02	2.74E-04	1.34E-04	1.84E-08	
221	1	Surface	Chromium	mg/kg	7.01E+01	8.70E-05	4.26E-05	5.85E-09	
221	1	Surface	Iron	mg/kg	1.90E+04	2.36E-02	1.15E-02	1.58E-06	
221	1	Surface	Nickel	mg/kg	7.93E+01	9.84E-05	3.85E-05	6.61E-09	
221	1	Surface	PCB, Total	mg/kg	5.00E-01	6.21E-07	8.51E-07	7.03E-08	
221	1	Surface	Total PAH	mg/kg	1.02E+00	1.27E-06	1.62E-06	6.31E-09	
221	1	Surface	Uranium	mg/kg	1.64E+01	2.03E-05	9.94E-06	1.36E-09	
221	1	Surface	Uranium-238	pCi/g	1.93E+00	4.28E+03		2.88E-01	6.52E+00
222	1	Surface	Chromium	mg/kg	4.73E+01	5.87E-05	2.88E-05	3.95E-09	
222	1	Surface	Nickel	mg/kg	9.19E+01	1.14E-04	4.47E-05	7.67E-09	
222	1	Surface	PCB, Total	mg/kg	1.40E+00	1.74E-06	2.38E-06	1.97E-07	
222	1	Surface	Total PAH	mg/kg	1.77E-01	2.20E-07	2.80E-07	1.09E-09	
222	1	Surface	Uranium	mg/kg	2.80E+01	3.47E-05	1.70E-05	2.33E-09	
222	1	Surface	Uranium-234	pCi/g	1.04E+01	2.31E+04		1.55E+00	3.51E+01
222	1	Surface	Uranium-235	pCi/g	7.10E-01	1.58E+03		1.06E-01	2.40E+00
222	1	Surface	Uranium-238	pCi/g	1.96E+01	4.35E+04		2.92E+00	6.62E+01
224	1	Surface	Chromium	mg/kg	4.49E+01	5.57E-05	2.73E-05	3.75E-09	
224	1	Surface	PCB, Total	mg/kg	4.75E+02	5.90E-04	8.08E-04	6.68E-05	
224	1	Surface	Total PAH	mg/kg	4.53E+01	5.62E-05	7.15E-05	2.79E-07	
224	1	Surface	Uranium	mg/kg	4.15E+01	5.15E-05	2.52E-05	3.46E-09	
224	1	Surface	Uranium-235	pCi/g	2.50E-01	5.55E+02		3.73E-02	8.45E-01
224	1	Surface	Uranium-238	pCi/g	2.64E+01	5.86E+04		3.94E+00	8.92E+01
225	1	Surface	Chromium	mg/kg	2.55E+01	3.17E-05	1.55E-05	2.13E-09	
225	1	Surface	Total PAH	mg/kg	7.79E-02	9.66E-08	1.23E-07	4.80E-10	
225	1	Surface	Uranium-238	pCi/g	2.04E+00	4.53E+03		3.04E-01	6.89E+00
226	1	Surface	Americium-241	pCi/g	1.62E+00	3.60E+03		2.42E-01	5.48E+00
226	1	Surface	Antimony	mg/kg	6.60E-01	8.19E-07	4.01E-07	5.51E-11	
226	1	Surface	Cesium-137	pCi/g	2.65E+00	5.88E+03		3.95E-01	8.95E+00
226	1	Surface	Chromium	mg/kg	4.25E+01	5.28E-05	2.58E-05	3.55E-09	
226	1	Surface	Cobalt-60	pCi/g	3.14E-03	6.97E+00		4.68E-04	1.06E-02
226	1	Surface	Manganese	mg/kg	6.30E+02	7.82E-04	3.06E-04	5.26E-08	
226	1	Surface	Mercury	mg/kg	9.74E+00	1.21E-05	5.92E-06	2.42E-05	
226	1	Surface	Neptunium-237	pCi/g	1.60E+02	3.55E+05		2.39E+01	5.41E+02
226	1	Surface	Nickel	mg/kg	2.10E+02	2.60E-04	1.02E-04	1.75E-08	
226	1	Surface	PCB, Total	mg/kg	1.49E+00	1.85E-06	2.54E-06	2.10E-07	
226	1	Surface	Plutonium-238	pCi/g	2.13E+00	4.73E+03		3.18E-01	7.20E+00
226	1	Surface	Plutonium-239/240	pCi/g	6.52E+00	1.45E+04		9.73E-01	2.20E+01
226	1	Surface	Technetium-99	pCi/g	4.96E+01	1.10E+05		7.40E+00	1.68E+02
226	1	Surface	Thorium-230	pCi/g	4.77E+01	1.06E+05		7.12E+00	1.61E+02
226	1	Surface	Total PAH	mg/kg	9.19E-02	1.14E-07	1.45E-07	5.67E-10	
226	1	Surface	Uranium	mg/kg	4.01E+02	4.98E-04	2.44E-04	3.35E-08	
226	1	Surface	Uranium-234	pCi/g	2.29E+01	5.09E+04		3.42E+00	7.75E+01
226	1	Surface	Uranium-235	pCi/g	1.10E+00	2.45E+03		1.64E-01	3.72E+00
226	1	Surface	Uranium-238	pCi/g	2.40E+01	5.33E+04		3.58E+00	8.11E+01
227	1	Surface	Beryllium	mg/kg	5.52E-01	6.85E-07	4.70E-08	4.60E-11	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
227	1	Surface	Cesium-137	pCi/g	1.90E-01	4.22E+02		2.83E-02	6.42E-01
227	1	Surface	Chromium	mg/kg	4.71E+01	5.85E-05	2.86E-05	3.93E-09	
227	1	Surface	Cobalt-60	pCi/g	1.53E-02	3.40E+01		2.28E-03	5.17E-02
227	1	Surface	Neptunium-237	pCi/g	9.05E-01	2.01E+03		1.35E-01	3.06E+00
227	1	Surface	Nickel	mg/kg	2.03E+02	2.52E-04	9.87E-05	1.69E-08	
227	1	Surface	PCB, Total	mg/kg	4.14E+00	5.14E-06	7.05E-06	5.83E-07	
227	1	Surface	Technetium-99	pCi/g	4.77E+01	1.06E+05		7.12E+00	1.61E+02
227	1	Surface	Total PAH	mg/kg	3.38E-01	4.19E-07	5.34E-07	2.08E-09	
227	1	Surface	Uranium	mg/kg	1.02E+02	1.26E-04	6.17E-05	8.48E-09	
227	1	Surface	Uranium-234	pCi/g	1.54E+01	3.43E+04		2.30E+00	5.22E+01
227	1	Surface	Uranium-235	pCi/g	1.49E+00	3.31E+03		2.22E-01	5.03E+00
227	1	Surface	Uranium-238	pCi/g	4.63E+01	1.03E+05		6.90E+00	1.56E+02
227	2	Surface	Beryllium	mg/kg	5.32E-01	6.60E-07	4.53E-08	4.44E-11	
227	2	Surface	Chromium	mg/kg	5.63E+01	6.99E-05	3.42E-05	4.70E-09	
227	2	Surface	Cobalt	mg/kg	8.99E+00	1.12E-05	5.46E-06	7.50E-10	
227	2	Surface	Cobalt-60	pCi/g	1.37E-02	3.04E+01		2.04E-03	4.63E-02
227	2	Surface	Mercury	mg/kg	8.41E+00	1.04E-05	5.11E-06	2.09E-05	
227	2	Surface	Nickel	mg/kg	1.25E+02	1.55E-04	6.07E-05	1.04E-08	
227	2	Surface	PCB, Total	mg/kg	5.82E+00	7.23E-06	9.90E-06	8.19E-07	
227	2	Surface	Total PAH	mg/kg	1.16E-01	1.44E-07	1.83E-07	7.14E-10	
227	2	Surface	Uranium	mg/kg	1.51E+01	1.87E-05	9.15E-06	1.26E-09	
227	2	Surface	Uranium-238	pCi/g	1.57E+00	3.49E+03		2.35E-01	5.32E+00
228	1	Surface	Antimony	mg/kg	6.30E-01	7.82E-07	3.83E-07	5.26E-11	
228	1	Surface	Cadmium	mg/kg	3.90E+00	4.84E-06	4.74E-08	3.25E-10	
228	1	Surface	Chromium	mg/kg	1.89E+02	2.34E-04	1.15E-04	1.58E-08	
228	1	Surface	Mercury	mg/kg	9.37E+00	1.16E-05	5.69E-06	2.33E-05	
228	1	Surface	Neptunium-237	pCi/g	8.00E-01	1.78E+03		1.19E-01	2.70E+00
228	1	Surface	Nickel	mg/kg	7.92E+01	9.83E-05	3.85E-05	6.60E-09	
228	1	Surface	Silver	mg/kg	1.16E+01	1.44E-05	5.65E-06	9.70E-10	
228	1	Surface	Total PAH	mg/kg	6.69E-02	8.30E-08	1.06E-07	4.12E-10	
228	1	Surface	Uranium	mg/kg	1.51E+01	1.88E-05	9.19E-06	1.26E-09	
228	1	Surface	Uranium-235	pCi/g	1.78E-01	3.95E+02		2.66E-02	6.01E-01
228	1	Surface	Uranium-238	pCi/g	3.77E+00	8.37E+03		5.62E-01	1.27E+01
229	1	Surface	Nickel	mg/kg	9.14E+01	1.13E-04	4.44E-05	7.62E-09	
229	1	Surface	Total PAH	mg/kg	1.57E-01	1.95E-07	2.48E-07	9.67E-10	
229	1	Surface	Uranium	mg/kg	1.56E+02	1.93E-04	9.47E-05	1.30E-08	
229	1	Surface	Uranium-238	pCi/g	2.86E+00	6.35E+03		4.27E-01	9.66E+00
229	2	Surface	Arsenic	mg/kg	2.12E+01	2.63E-05	7.73E-06	1.77E-09	
229	2	Surface	Beryllium	mg/kg	7.90E-01	9.81E-07	6.72E-08	6.59E-11	
229	2	Surface	Chromium	mg/kg	2.91E+01	3.62E-05	1.77E-05	2.43E-09	
229	2	Surface	Neptunium-237	pCi/g	2.87E-01	6.37E+02		4.28E-02	9.70E-01
229	2	Surface	Nickel	mg/kg	9.93E+01	1.23E-04	4.83E-05	8.28E-09	
229	2	Surface	Total PAH	mg/kg	1.69E+00	2.10E-06	2.68E-06	1.05E-08	
229	2	Surface	Uranium	mg/kg	7.45E+01	9.25E-05	4.53E-05	6.21E-09	
229	2	Surface	Uranium-234	pCi/g	1.22E+01	2.71E+04		1.82E+00	4.12E+01
229	2	Surface	Uranium-235	pCi/g	8.40E-01	1.86E+03		1.25E-01	2.84E+00
229	2	Surface	Uranium-238	pCi/g	2.49E+01	5.53E+04		3.71E+00	8.41E+01
483	1	Surface	Nickel	mg/kg	1.17E+02	1.45E-04	5.67E-05	9.72E-09	
483	1	Surface	Silver	mg/kg	1.12E+01	1.39E-05	5.44E-06	9.33E-10	
483	1	Surface	Total PAH	mg/kg	2.39E-02	2.97E-08	3.78E-08	1.47E-10	
486	1	Surface	Cesium-137	pCi/g					

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
487	1	Surface	Cesium-137	pCi/g					
488	1	Surface	Cesium-137	pCi/g	5.20E-01	1.15E+03		7.76E-02	1.76E+00
488	1	Surface	PCB, Total	mg/kg	1.03E+01	1.28E-05	1.75E-05	1.45E-06	
488	1	Surface	Total PAH	mg/kg	2.50E-01	3.10E-07	3.95E-07	1.54E-09	
488	1	Surface	Uranium	mg/kg	1.48E+01	1.84E-05	8.99E-06	1.23E-09	
488	1	Surface	Uranium-235	pCi/g	1.49E-01	3.31E+02		2.22E-02	5.03E-01
488	1	Surface	Uranium-238	pCi/g	4.54E+00	1.01E+04		6.77E-01	1.53E+01
489	1	Surface	Chromium	mg/kg	4.16E+01	5.17E-05	2.53E-05	3.47E-09	
489	1	Surface	Nickel	mg/kg	7.88E+01	9.78E-05	3.83E-05	6.58E-09	
489	1	Surface	Total PAH	mg/kg	8.22E-02	1.02E-07	1.30E-07	5.07E-10	
489	1	Surface	Uranium-238	pCi/g	1.47E+00	3.26E+03		2.19E-01	4.97E+00
492	1	Surface	Arsenic	mg/kg	1.47E+01	1.82E-05	5.36E-06	1.23E-09	
492	1	Surface	Beryllium	mg/kg	1.04E+01	1.29E-05	8.85E-07	8.68E-10	
492	1	Surface	Cadmium	mg/kg	3.14E+00	3.90E-06	3.82E-08	2.62E-10	
492	1	Surface	Chromium	mg/kg	1.04E+03	1.29E-03	6.32E-04	8.68E-08	
492	1	Surface	Cobalt-60	pCi/g	9.63E-03	2.14E+01		1.44E-03	3.25E-02
492	1	Surface	Neptunium-237	pCi/g	2.09E-01	4.64E+02		3.12E-02	7.06E-01
492	1	Surface	PCB, Total	mg/kg	4.41E+01	5.47E-05	7.50E-05	6.20E-06	
492	1	Surface	Uranium	mg/kg	1.77E+03	2.20E-03	1.08E-03	1.48E-07	
492	1	Surface	Uranium-234	pCi/g	5.39E+01	1.20E+05		8.04E+00	1.82E+02
492	1	Surface	Uranium-235	pCi/g	5.72E+00	1.27E+04		8.53E-01	1.93E+01
492	1	Surface	Uranium-238	pCi/g	3.83E+02	8.50E+05		5.71E+01	1.29E+03
492	1	Surface	Vanadium	mg/kg	4.32E+01	5.36E-05	1.37E-05	3.60E-09	
493	1	Surface	Aluminum	mg/kg	1.44E+04	1.79E-02	8.75E-03	1.20E-06	
493	1	Surface	Barium	mg/kg	4.04E+02	5.01E-04	2.46E-04	3.37E-08	
493	1	Surface	Beryllium	mg/kg	9.91E-01	1.23E-06	8.43E-08	8.27E-11	
493	1	Surface	Chromium	mg/kg	6.61E+01	8.20E-05	4.02E-05	5.51E-09	
493	1	Surface	Cobalt	mg/kg	3.79E+01	4.70E-05	2.30E-05	3.16E-09	
493	1	Surface	Cobalt-60	pCi/g	1.36E-02	3.02E+01		2.03E-03	4.60E-02
493	1	Surface	Manganese	mg/kg	3.55E+03	4.41E-03	1.73E-03	2.96E-07	
493	1	Surface	Mercury	mg/kg	2.60E-01	3.23E-07	1.58E-07	6.47E-07	
493	1	Surface	Neptunium-237	pCi/g	1.22E-01	2.71E+02		1.82E-02	4.12E-01
493	1	Surface	Nickel	mg/kg	2.13E+02	2.64E-04	1.04E-04	1.78E-08	
493	1	Surface	PCB, Total	mg/kg	2.60E-01	3.23E-07	4.42E-07	3.66E-08	
493	1	Surface	Total PAH	mg/kg	5.00E-01	6.21E-07	7.90E-07	3.08E-09	
493	1	Surface	Uranium-235	pCi/g	1.65E-01	3.66E+02		2.46E-02	5.58E-01
493	1	Surface	Uranium-238	pCi/g	5.50E+00	1.22E+04		8.21E-01	1.86E+01
493	1	Surface	Vanadium	mg/kg	4.05E+01	5.03E-05	1.28E-05	3.38E-09	
517	1	Surface	Beryllium	mg/kg	7.39E-01	9.17E-07	6.29E-08	6.16E-11	
517	1	Surface	Chromium	mg/kg	4.91E+01	6.09E-05	2.98E-05	4.10E-09	
517	1	Surface	Cobalt-60	pCi/g	6.39E-03	1.42E+01		9.53E-04	2.16E-02
517	1	Surface	Neptunium-237	pCi/g	1.07E+00	2.38E+03		1.60E-01	3.62E+00
517	1	Surface	Nickel	mg/kg	1.72E+02	2.13E-04	8.36E-05	1.43E-08	
517	1	Surface	PCB, Total	mg/kg	5.00E-01	6.21E-07	8.51E-07	7.03E-08	
517	1	Surface	Uranium-235	pCi/g	1.60E-01	3.55E+02		2.39E-02	5.41E-01
517	1	Surface	Uranium-238	pCi/g	3.89E+00	8.64E+03		5.80E-01	1.31E+01
518	1	Surface	Carbazole	mg/kg	1.17E+01	1.45E-05	1.42E-05	4.53E-07	
518	1	Surface	Cobalt	mg/kg	6.80E+00	8.45E-06	4.13E-06	5.68E-10	
518	1	Surface	Nickel	mg/kg	1.29E+01	1.60E-05	6.25E-06	1.07E-09	
518	1	Surface	PCB, Total	mg/kg	6.30E-01	7.82E-07	1.07E-06	8.86E-08	
518	1	Surface	Pyrene	mg/kg	3.94E+01	4.89E-05	6.23E-05	2.16E-06	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
518	1	Surface	Total PAH	mg/kg	4.64E+00	5.76E-06	7.33E-06	2.86E-08	
518	1	Surface	Uranium	mg/kg	2.17E+02	2.69E-04	1.32E-04	1.81E-08	
518	1	Surface	Uranium-235	pCi/g	6.74E-02	1.50E+02		1.01E-02	2.28E-01
518	1	Surface	Uranium-238	pCi/g	1.51E+00	3.36E+03		2.26E-01	5.12E+00
520	1	Surface	Cesium-137	pCi/g	9.62E-01	2.14E+03		1.44E-01	3.25E+00
520	1	Surface	Chromium	mg/kg	3.17E+01	3.94E-05	1.93E-05	2.65E-09	
520	1	Surface	Iron	mg/kg	1.56E+04	1.93E-02	9.47E-03	1.30E-06	
520	1	Surface	Mercury	mg/kg	1.07E+01	1.33E-05	6.49E-06	2.66E-05	
520	1	Surface	Neptunium-237	pCi/g	6.56E-01	1.46E+03		9.79E-02	2.22E+00
520	1	Surface	Nickel	mg/kg	2.60E+02	3.23E-04	1.27E-04	2.17E-08	
520	1	Surface	Silver	mg/kg	1.30E+01	1.61E-05	6.31E-06	1.08E-09	
520	1	Surface	Thorium-230	pCi/g	1.13E+01	2.52E+04		1.69E+00	3.83E+01
520	1	Surface	Total PAH	mg/kg	3.18E-02	3.95E-08	5.03E-08	1.96E-10	
520	1	Surface	Uranium	mg/kg	2.29E+01	2.85E-05	1.39E-05	1.91E-09	
520	1	Surface	Uranium-235	pCi/g	1.26E-01	2.80E+02		1.88E-02	4.26E-01
520	1	Surface	Uranium-238	pCi/g	3.93E+00	8.72E+03		5.86E-01	1.33E+01
520	2	Surface	Beryllium	mg/kg	5.79E-01	7.19E-07	4.93E-08	4.83E-11	
520	2	Surface	Chromium	mg/kg	6.67E+01	8.27E-05	4.05E-05	5.56E-09	
520	2	Surface	Manganese	mg/kg	5.89E+02	7.32E-04	2.87E-04	4.92E-08	
520	2	Surface	Mercury	mg/kg	1.19E+01	1.47E-05	7.22E-06	2.95E-05	
520	2	Surface	Neptunium-237	pCi/g	7.48E-02	1.66E+02		1.12E-02	2.53E-01
520	2	Surface	Nickel	mg/kg	3.11E+02	3.85E-04	1.51E-04	2.59E-08	
520	2	Surface	Total PAH	mg/kg	3.17E-01	3.93E-07	5.01E-07	1.96E-09	
520	2	Surface	Uranium	mg/kg	3.96E+01	4.91E-05	2.40E-05	3.30E-09	
520	2	Surface	Uranium-238	pCi/g	1.78E+00	3.95E+03		2.65E-01	6.01E+00
520	3	Surface	Chromium	mg/kg	3.97E+01	4.93E-05	2.41E-05	3.31E-09	
520	3	Surface	Copper	mg/kg	1.19E+02	1.48E-04	7.23E-05	9.93E-09	
520	3	Surface	Nickel	mg/kg	2.65E+02	3.29E-04	1.29E-04	2.21E-08	
520	3	Surface	Silver	mg/kg	1.27E+01	1.57E-05	6.16E-06	1.06E-09	
520	3	Surface	Total PAH	mg/kg	1.18E-01	1.47E-07	1.87E-07	7.28E-10	
520	3	Surface	Uranium	mg/kg	1.92E+01	2.39E-05	1.17E-05	1.60E-09	
520	3	Surface	Uranium-238	pCi/g	1.57E+00	3.49E+03		2.34E-01	5.31E+00
520	4	Surface	Chromium	mg/kg	3.82E+01	4.75E-05	2.32E-05	3.19E-09	
520	4	Surface	Copper	mg/kg	1.11E+02	1.37E-04	6.72E-05	9.23E-09	
520	4	Surface	Mercury	mg/kg	9.69E+00	1.20E-05	5.89E-06	2.41E-05	
520	4	Surface	Neptunium-237	pCi/g	7.40E-01	1.64E+03		1.10E-01	2.50E+00
520	4	Surface	Nickel	mg/kg	2.82E+02	3.50E-04	1.37E-04	2.35E-08	
520	4	Surface	Silver	mg/kg	1.04E+01	1.30E-05	5.08E-06	8.71E-10	
520	4	Surface	Total PAH	mg/kg	5.52E-01	6.86E-07	8.73E-07	3.41E-09	
520	4	Surface	Uranium	mg/kg	2.40E+01	2.98E-05	1.46E-05	2.00E-09	
520	4	Surface	Uranium-235	pCi/g	2.42E-01	5.37E+02		3.61E-02	8.18E-01
520	4	Surface	Uranium-238	pCi/g	6.26E+00	1.39E+04		9.34E-01	2.12E+01
520	5	Surface	Antimony	mg/kg	9.60E-01	1.19E-06	5.83E-07	8.01E-11	
520	5	Surface	Chromium	mg/kg	3.68E+01	4.57E-05	2.24E-05	3.07E-09	
520	5	Surface	Neptunium-237	pCi/g	1.55E-01	3.44E+02		2.31E-02	5.24E-01
520	5	Surface	Nickel	mg/kg	1.47E+02	1.82E-04	7.14E-05	1.23E-08	
520	5	Surface	Total PAH	mg/kg	3.87E-01	4.81E-07	6.12E-07	2.39E-09	
520	5	Surface	Uranium-238	pCi/g	1.45E+00	3.22E+03		2.16E-01	4.90E+00
531	1	Surface	Antimony	mg/kg	1.00E+00	1.24E-06	6.08E-07	8.34E-11	
531	1	Surface	Arsenic	mg/kg	4.68E+01	5.81E-05	1.71E-05	3.91E-09	
531	1	Surface	Cadmium	mg/kg	3.10E+00	3.85E-06	3.77E-08	2.59E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
531	1	Surface	Chromium	mg/kg	5.05E+01	6.26E-05	3.07E-05	4.21E-09	
531	1	Surface	Iron	mg/kg	5.68E+04	7.06E-02	3.45E-02	4.74E-06	
531	1	Surface	Nickel	mg/kg	1.62E+02	2.01E-04	7.89E-05	1.35E-08	
531	1	Surface	Total PAH	mg/kg	5.34E-02	6.63E-08	8.43E-08	3.29E-10	
531	1	Surface	Uranium	mg/kg	2.41E+01	2.99E-05	1.46E-05	2.01E-09	
531	1	Surface	Uranium-235	pCi/g	1.38E-01	3.06E+02		2.06E-02	4.66E-01
531	1	Surface	Uranium-238	pCi/g	3.48E+00	7.73E+03		5.19E-01	1.18E+01
531	1	Surface	Zinc	mg/kg	2.45E+03	3.04E-03	1.49E-03	2.05E-07	
541	1	Surface	Aluminum	mg/kg	1.43E+04	1.77E-02	8.68E-03	1.19E-06	
541	1	Surface	Americium-241	pCi/g	7.53E+00	1.67E+04		1.12E+00	2.55E+01
541	1	Surface	Barium	mg/kg	1.28E+02	1.59E-04	7.78E-05	1.07E-08	
541	1	Surface	Beryllium	mg/kg	6.98E-01	8.66E-07	5.94E-08	5.82E-11	
541	1	Surface	Cadmium	mg/kg	1.68E+00	2.09E-06	2.04E-08	1.40E-10	
541	1	Surface	Cesium-137	pCi/g	9.58E-01	2.13E+03		1.43E-01	3.24E+00
541	1	Surface	Chromium	mg/kg	8.24E+02	1.02E-03	5.01E-04	6.87E-08	
541	1	Surface	Cobalt-60	pCi/g	1.01E-02	2.24E+01		1.51E-03	3.41E-02
541	1	Surface	Iron	mg/kg	1.60E+04	1.98E-02	9.70E-03	1.33E-06	
541	1	Surface	Mercury	mg/kg	9.81E-02	1.22E-07	5.96E-08	2.44E-07	
541	1	Surface	Naphthalene	mg/kg	6.55E-01	8.13E-07	1.99E-06	1.82E-06	
541	1	Surface	Neptunium-237	pCi/g	5.52E-02	1.23E+02		8.24E-03	1.87E-01
541	1	Surface	Nickel	mg/kg	1.52E+01	1.89E-05	7.41E-06	1.27E-09	
541	1	Surface	PCB, Total	mg/kg	6.06E+01	7.52E-05	1.03E-04	8.52E-06	
541	1	Surface	Total PAH	mg/kg	2.33E+00	2.89E-06	3.68E-06	1.44E-08	
541	1	Surface	Uranium	mg/kg	6.38E+03	7.92E-03	3.88E-03	5.32E-07	
541	1	Surface	Uranium-234	pCi/g	1.43E+02	3.17E+05		2.13E+01	4.83E+02
541	1	Surface	Uranium-235	pCi/g	1.76E+01	3.90E+04		2.62E+00	5.93E+01
541	1	Surface	Uranium-238	pCi/g	1.00E+03	2.22E+06		1.49E+02	3.38E+03
541	1	Surface	Vanadium	mg/kg	3.04E+01	3.78E-05	9.62E-06	2.54E-09	
561	1	Surface	Antimony	mg/kg	9.36E-01	1.16E-06	5.69E-07	7.81E-11	
561	1	Surface	Arsenic	mg/kg	1.66E+01	2.05E-05	6.03E-06	1.38E-09	
561	1	Surface	Barium	mg/kg	1.40E+02	1.74E-04	8.52E-05	1.17E-08	
561	1	Surface	Beryllium	mg/kg	6.85E-01	8.50E-07	5.83E-08	5.71E-11	
561	1	Surface	Chromium	mg/kg	8.58E+01	1.06E-04	5.21E-05	7.16E-09	
561	1	Surface	Cobalt	mg/kg	1.07E+01	1.33E-05	6.50E-06	8.92E-10	
561	1	Surface	Cobalt-60	pCi/g	7.06E-02	1.57E+02		1.05E-02	2.39E-01
561	1	Surface	Iron	mg/kg	2.05E+04	2.54E-02	1.24E-02	1.71E-06	
561	1	Surface	Manganese	mg/kg	1.61E+03	2.00E-03	7.82E-04	1.34E-07	
561	1	Surface	Neptunium-237	pCi/g	2.71E-02	6.02E+01		4.04E-03	9.16E-02
561	1	Surface	PCB, Total	mg/kg	1.04E+00	1.29E-06	1.77E-06	1.47E-07	
561	1	Surface	Thallium	mg/kg	3.33E-01	4.13E-07	2.02E-07	2.78E-11	
561	1	Surface	Total PAH	mg/kg	1.65E-01	2.05E-07	2.61E-07	1.02E-09	
561	1	Surface	Uranium	mg/kg	2.65E+02	3.29E-04	1.61E-04	2.21E-08	
561	1	Surface	Uranium-234	pCi/g	7.84E+00	1.74E+04		1.17E+00	2.65E+01
561	1	Surface	Uranium-235	pCi/g	1.37E+00	3.03E+03		2.04E-01	4.62E+00
561	1	Surface	Uranium-238	pCi/g	1.07E+02	2.36E+05		1.59E+01	3.60E+02
561	1	Surface	Vanadium	mg/kg	3.76E+01	4.67E-05	1.19E-05	3.14E-09	
561	2	Surface	Antimony	mg/kg	5.33E+00	6.62E-06	3.24E-06	4.45E-10	
561	2	Surface	Arsenic	mg/kg	1.30E+01	1.61E-05	4.74E-06	1.09E-09	
561	2	Surface	Beryllium	mg/kg	6.34E-01	7.87E-07	5.39E-08	5.29E-11	
561	2	Surface	Cadmium	mg/kg	4.13E-01	5.13E-07	5.02E-09	3.45E-11	
561	2	Surface	Cesium-137	pCi/g	4.09E-01	9.08E+02		6.10E-02	1.38E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
561	2	Surface	Chromium	mg/kg	2.88E+02	3.58E-04	1.75E-04	2.40E-08	
561	2	Surface	Cobalt	mg/kg	1.14E+01	1.42E-05	6.93E-06	9.51E-10	
561	2	Surface	Cobalt-60	pCi/g	2.76E-02	6.13E+01		4.12E-03	9.33E-02
561	2	Surface	Manganese	mg/kg	1.12E+03	1.38E-03	5.42E-04	9.30E-08	
561	2	Surface	Neptunium-237	pCi/g	4.71E-02	1.05E+02		7.03E-03	1.59E-01
561	2	Surface	PCB, Total	mg/kg	1.64E+01	2.03E-05	2.78E-05	2.30E-06	
561	2	Surface	Thallium	mg/kg	4.09E-01	5.08E-07	2.49E-07	3.41E-11	
561	2	Surface	Total PAH	mg/kg	4.43E-01	5.50E-07	7.00E-07	2.73E-09	
561	2	Surface	Uranium	mg/kg	1.38E+03	1.72E-03	8.40E-04	1.15E-07	
561	2	Surface	Uranium-234	pCi/g	4.06E+01	9.02E+04		6.06E+00	1.37E+02
561	2	Surface	Uranium-235	pCi/g	7.09E+00	1.57E+04		1.06E+00	2.40E+01
561	2	Surface	Uranium-238	pCi/g	4.00E+02	8.89E+05		5.97E+01	1.35E+03
561	2	Surface	Vanadium	mg/kg	3.46E+01	4.29E-05	1.09E-05	2.88E-09	
562	1	Surface	Uranium	mg/kg	8.73E+01	1.08E-04	5.31E-05	7.28E-09	
562	1	Surface	Uranium-238	pCi/g	2.73E+00	6.06E+03		4.07E-01	9.22E+00
562	2	Surface	PCB, Total	mg/kg	1.58E+00	1.96E-06	2.69E-06	2.22E-07	
562	2	Surface	Uranium-234	pCi/g	5.34E+01	1.19E+05		7.97E+00	1.80E+02
562	2	Surface	Uranium-235	pCi/g	8.96E+00	1.99E+04		1.34E+00	3.03E+01
562	2	Surface	Uranium-238	pCi/g	5.81E+02	1.29E+06		8.67E+01	1.96E+03
562	3	Surface	Chromium	mg/kg	3.82E+01	4.74E-05	2.32E-05	3.18E-09	
562	3	Surface	PCB, Total	mg/kg	2.40E-01	2.98E-07	4.08E-07	3.38E-08	
562	3	Surface	Total PAH	mg/kg	2.20E-01	2.73E-07	3.48E-07	1.36E-09	
562	3	Surface	Uranium	mg/kg	5.89E+01	7.31E-05	3.58E-05	4.91E-09	
562	3	Surface	Uranium-235	pCi/g	1.63E-01	3.62E+02		2.43E-02	5.51E-01
562	3	Surface	Uranium-238	pCi/g	1.09E+01	2.42E+04		1.63E+00	3.68E+01
562	4	Surface	Chromium	mg/kg	4.67E+01	5.79E-05	2.84E-05	3.89E-09	
562	4	Surface	Uranium	mg/kg	2.10E+01	2.61E-05	1.28E-05	1.75E-09	
562	4	Surface	Uranium-238	pCi/g	2.24E+00	4.97E+03		3.34E-01	7.57E+00
562	5	Surface	Chromium	mg/kg	1.53E+02	1.90E-04	9.30E-05	1.28E-08	
562	5	Surface	PCB, Total	mg/kg	9.50E-01	1.18E-06	1.62E-06	1.34E-07	
562	5	Surface	Total PAH	mg/kg	7.05E-02	8.75E-08	1.11E-07	4.35E-10	
562	5	Surface	Uranium	mg/kg	2.08E+02	2.58E-04	1.26E-04	1.74E-08	
562	5	Surface	Uranium-234	pCi/g	8.57E+00	1.90E+04		1.28E+00	2.90E+01
562	5	Surface	Uranium-235	pCi/g	9.50E-01	2.11E+03		1.42E-01	3.21E+00
562	5	Surface	Uranium-238	pCi/g	6.24E+01	1.39E+05		9.31E+00	2.11E+02
563	1	Surface	Cadmium	mg/kg	8.96E-01	1.11E-06	1.09E-08	7.47E-11	
563	1	Surface	Chromium	mg/kg	2.85E+02	3.54E-04	1.73E-04	2.38E-08	
563	1	Surface	PCB, Total	mg/kg	7.40E-01	9.19E-07	1.26E-06	1.04E-07	
563	1	Surface	Uranium	mg/kg	1.51E+01	1.87E-05	9.17E-06	1.26E-09	
563	1	Surface	Uranium-238	pCi/g	2.76E+00	6.13E+03		4.12E-01	9.33E+00
563	2	Surface	Cesium-137	pCi/g	6.47E-01	1.44E+03		9.65E-02	2.19E+00
563	2	Surface	Uranium-238	pCi/g	1.49E+00	3.31E+03		2.22E-01	5.03E+00
564	1	Surface	Arsenic	mg/kg	4.30E+01	5.34E-05	1.57E-05	3.59E-09	
564	1	Surface	Beryllium	mg/kg	2.12E+00	2.63E-06	1.80E-07	1.77E-10	
564	1	Surface	Cadmium	mg/kg	1.96E+00	2.43E-06	2.38E-08	1.63E-10	
564	1	Surface	Cesium-137	pCi/g	6.20E-01	1.38E+03		9.25E-02	2.09E+00
564	1	Surface	Chromium	mg/kg	7.49E+01	9.30E-05	4.55E-05	6.25E-09	
564	1	Surface	Iron	mg/kg	3.66E+04	4.54E-02	2.22E-02	3.05E-06	
564	1	Surface	Mercury	mg/kg	2.30E-01	2.85E-07	1.40E-07	5.72E-07	
564	1	Surface	Nickel	mg/kg	2.24E+01	2.78E-05	1.09E-05	1.87E-09	
564	1	Surface	PCB, Total	mg/kg	1.93E+00	2.40E-06	3.28E-06	2.71E-07	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.14. Cancerous CDIs for the Outdoor Worker Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
564	1	Surface	Thallium	mg/kg	2.36E+00	2.93E-06	1.43E-06	1.97E-10	
564	1	Surface	Thorium-230	pCi/g	5.01E+00	1.11E+04		7.47E-01	1.69E+01
564	1	Surface	Uranium	mg/kg	5.83E+01	7.24E-05	3.54E-05	4.86E-09	
564	1	Surface	Uranium-234	pCi/g	6.93E+00	1.54E+04		1.03E+00	2.34E+01
564	1	Surface	Uranium-235	pCi/g	3.87E-01	8.59E+02		5.77E-02	1.31E+00
564	1	Surface	Uranium-238	pCi/g	8.33E+00	1.85E+04		1.24E+00	2.81E+01
564	1	Surface	Vanadium	mg/kg	8.06E+01	1.00E-04	2.55E-05	6.72E-09	
567	3	Surface	Chromium	mg/kg	3.79E+01	4.70E-05	2.30E-05	3.16E-09	
567	4	Surface	Aluminum	mg/kg	1.25E+04	1.55E-02	7.61E-03	1.04E-06	
567	4	Surface	Chromium	mg/kg	1.63E+01	2.02E-05	9.91E-06	1.36E-09	
567	4	Surface	Uranium-238	pCi/g	1.05E+00	2.33E+03		1.57E-01	3.54E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
1	1	Surface	Beryllium	mg/kg	3.89E+00	5.33E-06	2.13E-06	1.15E-09
1	1	Surface	Cadmium	mg/kg	1.10E+00	1.51E-06	8.59E-08	3.24E-10
1	1	Surface	Cesium-137	pCi/g	5.91E-01	8.10E-07		1.74E-10
1	1	Surface	Chromium	mg/kg	1.28E+01	1.76E-05	5.01E-05	3.78E-09
1	1	Surface	Neptunium-237	pCi/g	4.02E-01	5.51E-07		1.18E-10
1	1	Surface	PCB, Total	mg/kg	1.76E-01	2.41E-07	1.92E-06	8.80E-08
1	1	Surface	Plutonium-239/240	pCi/g	6.14E+00	8.41E-06		1.81E-09
1	1	Surface	Thorium-230	pCi/g	4.40E+01	6.03E-05		1.30E-08
1	1	Surface	Uranium-235	pCi/g	1.06E-01	1.45E-07		3.12E-11
1	1	Surface	Uranium-238	pCi/g	1.97E+00	2.70E-06		5.81E-10
1	2	Surface	Beryllium	mg/kg	8.23E+00	1.13E-05	4.50E-06	2.42E-09
1	2	Surface	Cadmium	mg/kg	6.46E+00	8.85E-06	5.04E-07	1.90E-09
1	2	Surface	Chromium	mg/kg	2.01E+02	2.76E-04	7.86E-04	5.92E-08
1	2	Surface	Copper	mg/kg	1.81E+02	2.48E-04	7.06E-04	5.33E-08
1	2	Surface	Mercury	mg/kg	5.94E+00	8.14E-06	2.32E-05	5.25E-05
1	2	Surface	Nickel	mg/kg	5.75E+01	7.87E-05	1.79E-04	1.69E-08
1	2	Surface	PCB, Total	mg/kg	3.22E+01	4.41E-05	3.52E-04	1.61E-05
1	2	Surface	Silver	mg/kg	3.31E+01	4.54E-05	1.04E-04	9.76E-09
1	2	Surface	Thallium	mg/kg	3.70E-01	5.07E-07	1.44E-06	1.09E-10
1	2	Surface	Vanadium	mg/kg	3.49E+01	4.78E-05	7.08E-05	1.03E-08
1	3	Surface	Chromium	mg/kg	1.45E+01	1.98E-05	5.65E-05	4.26E-09
1	3	Surface	PCB, Total	mg/kg	2.17E-01	2.97E-07	2.37E-06	1.09E-07
1	3	Surface	Uranium-238	pCi/g	1.73E+00	2.37E-06		5.09E-10
1	4	Surface	Beryllium	mg/kg	7.25E-01	9.93E-07	3.96E-07	2.13E-10
1	4	Surface	Chromium	mg/kg	9.30E+01	1.27E-04	3.63E-04	2.74E-08
1	4	Surface	Cobalt-60	pCi/g	2.20E-02	3.01E-08		6.48E-12
1	4	Surface	Nickel	mg/kg	4.69E+01	6.42E-05	1.46E-04	1.38E-08
1	4	Surface	PCB, Total	mg/kg	1.30E-01	1.78E-07	1.42E-06	6.50E-08
1	4	Surface	Thorium-230	pCi/g	5.03E+00	6.89E-06		1.48E-09
1	5	Surface	Beryllium	mg/kg	8.30E+00	1.14E-05	4.54E-06	2.44E-09
1	5	Surface	Cadmium	mg/kg	1.20E+00	1.64E-06	9.37E-08	3.53E-10
1	5	Surface	Nickel	mg/kg	4.07E+01	5.58E-05	1.27E-04	1.20E-08
1	5	Surface	PCB, Total	mg/kg	2.70E-01	3.70E-07	2.95E-06	1.35E-07
1	5	Surface	Total PAH	mg/kg	9.83E-02	1.35E-07	9.98E-07	2.15E-09
12	1	Surface	Aluminum	mg/kg	8.19E+03	1.12E-02	3.20E-02	2.41E-06
12	1	Surface	Antimony	mg/kg	5.04E-01	6.90E-07	1.97E-06	1.48E-10
12	1	Surface	Arsenic	mg/kg	1.34E+01	1.83E-05	3.14E-05	3.94E-09
12	1	Surface	Barium	mg/kg	1.04E+02	1.42E-04	4.05E-04	3.05E-08
12	1	Surface	Beryllium	mg/kg	6.72E+00	9.21E-06	3.67E-06	1.98E-09
12	1	Surface	Cadmium	mg/kg	1.02E+00	1.40E-06	7.96E-08	3.00E-10
12	1	Surface	Chromium	mg/kg	6.33E+01	8.67E-05	2.47E-04	1.86E-08
12	1	Surface	Cobalt	mg/kg	9.16E+00	1.25E-05	3.58E-05	2.70E-09
12	1	Surface	Iron	mg/kg	3.01E+04	4.12E-02	1.17E-01	8.85E-06
12	1	Surface	Manganese	mg/kg	1.01E+03	1.39E-03	3.17E-03	2.99E-07
12	1	Surface	Mercury	mg/kg	8.80E+00	1.21E-05	3.44E-05	7.77E-05

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
12	1	Surface	Molybdenum	mg/kg	1.74E+01	2.39E-05	6.80E-05	5.13E-09
12	1	Surface	Nickel	mg/kg	7.74E+01	1.06E-04	2.42E-04	2.28E-08
12	1	Surface	PCB, Total	mg/kg	3.90E-01	5.34E-07	4.26E-06	1.95E-07
12	1	Surface	Silver	mg/kg	1.10E+01	1.51E-05	3.44E-05	3.25E-09
12	1	Surface	Thallium	mg/kg	1.03E+00	1.41E-06	4.02E-06	3.03E-10
12	1	Surface	Total PAH	mg/kg	1.70E-01	2.33E-07	1.73E-06	3.72E-09
12	1	Surface	Uranium	mg/kg	3.76E+02	5.15E-04	1.47E-03	1.11E-07
12	1	Surface	Uranium-234	pCi/g	1.50E+01	2.06E-05		4.42E-09
12	1	Surface	Uranium-235	pCi/g	1.53E+00	2.09E-06		4.49E-10
12	1	Surface	Uranium-238	pCi/g	6.68E+01	9.16E-05		1.97E-08
12	1	Surface	Vanadium	mg/kg	2.80E+01	3.84E-05	5.69E-05	8.25E-09
13	1	Surface	PCB, Total	mg/kg	7.00E-01	9.59E-07	7.65E-06	3.50E-07
13	4	Surface	Uranium-238	pCi/g	1.32E+00	1.81E-06		3.89E-10
13	5	Surface	Aluminum	mg/kg	1.13E+04	1.54E-02	4.40E-02	3.32E-06
13	5	Surface	Antimony	mg/kg	8.20E-01	1.12E-06	3.20E-06	2.41E-10
13	5	Surface	Cadmium	mg/kg	1.20E+00	1.64E-06	9.37E-08	3.53E-10
13	5	Surface	Chromium	mg/kg	1.51E+01	2.07E-05	5.90E-05	4.45E-09
13	5	Surface	Nickel	mg/kg	1.17E+02	1.60E-04	3.64E-04	3.43E-08
13	5	Surface	PCB, Total	mg/kg	1.05E+00	1.44E-06	1.15E-05	5.25E-07
13	5	Surface	Total PAH	mg/kg	6.65E-02	9.11E-08	6.75E-07	1.45E-09
13	5	Surface	Uranium	mg/kg	1.19E+02	1.63E-04	4.65E-04	3.51E-08
13	6	Surface	Uranium-238	pCi/g	1.32E+00	1.80E-06		3.88E-10
13	9	Surface	Neptunium-237	pCi/g	8.90E-01	1.22E-06		2.62E-10
13	9	Surface	Uranium	mg/kg	1.82E+01	2.49E-05	7.11E-05	5.36E-09
13	9	Surface	Uranium-235	pCi/g	3.11E-01	4.26E-07		9.16E-11
13	9	Surface	Uranium-238	pCi/g	6.08E+00	8.33E-06		1.79E-09
13	11	Surface	Cobalt-60	pCi/g	1.30E-02	1.78E-08		3.83E-12
14	1	Surface	Americium-241	pCi/g	1.27E+00	1.74E-06		3.73E-10
14	1	Surface	Arsenic	mg/kg	1.10E+01	1.50E-05	2.57E-05	3.23E-09
14	1	Surface	Chromium	mg/kg	6.36E+01	8.71E-05	2.48E-04	1.87E-08
14	1	Surface	Iron	mg/kg	1.89E+04	2.58E-02	7.36E-02	5.55E-06
14	1	Surface	Neptunium-237	pCi/g	2.14E-01	2.93E-07		6.30E-11
14	1	Surface	Nickel	mg/kg	1.40E+02	1.91E-04	4.36E-04	4.11E-08
14	1	Surface	PCB, Total	mg/kg	5.00E-01	6.85E-07	5.47E-06	2.50E-07
14	1	Surface	Silver	mg/kg	1.67E+01	2.29E-05	5.21E-05	4.91E-09
14	1	Surface	Technetium-99	pCi/g	4.06E+02	5.56E-04		1.20E-07
14	1	Surface	Uranium	mg/kg	7.21E+01	9.88E-05	2.82E-04	2.12E-08
14	1	Surface	Uranium-238	pCi/g	1.69E+00	2.32E-06		4.98E-10
14	2	Surface	Antimony	mg/kg	3.70E+00	5.07E-06	1.44E-05	1.09E-09
14	2	Surface	Arsenic	mg/kg	1.45E+01	1.99E-05	3.40E-05	4.28E-09
14	2	Surface	Beryllium	mg/kg	7.10E-01	9.73E-07	3.88E-07	2.09E-10
14	2	Surface	Chromium	mg/kg	6.65E+01	9.12E-05	2.60E-04	1.96E-08
14	2	Surface	Copper	mg/kg	1.76E+02	2.42E-04	6.89E-04	5.19E-08
14	2	Surface	Iron	mg/kg	3.72E+04	5.09E-02	1.45E-01	1.10E-05
14	2	Surface	Manganese	mg/kg	1.44E+03	1.98E-03	4.50E-03	4.25E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	2	Surface	Mercury	mg/kg	2.67E-01	3.66E-07	1.04E-06	2.36E-06
14	2	Surface	Neptunium-237	pCi/g	7.70E-01	1.05E-06		2.27E-10
14	2	Surface	Nickel	mg/kg	6.78E+02	9.29E-04	2.12E-03	2.00E-07
14	2	Surface	PCB, Total	mg/kg	3.90E-01	5.34E-07	4.26E-06	1.95E-07
14	2	Surface	Thorium-230	pCi/g	5.98E+00	8.19E-06		1.76E-09
14	2	Surface	Total PAH	mg/kg	3.38E-01	4.63E-07	3.43E-06	7.39E-09
14	2	Surface	Uranium	mg/kg	2.93E+02	4.02E-04	1.15E-03	8.64E-08
14	2	Surface	Uranium-234	pCi/g	3.24E+01	4.44E-05		9.54E-09
14	2	Surface	Uranium-235	pCi/g	2.00E+00	2.74E-06		5.89E-10
14	2	Surface	Uranium-238	pCi/g	5.61E+01	7.68E-05		1.65E-08
14	3	Surface	Arsenic	mg/kg	1.30E+01	1.78E-05	3.04E-05	3.82E-09
14	3	Surface	Chromium	mg/kg	7.01E+01	9.61E-05	2.74E-04	2.07E-08
14	3	Surface	Copper	mg/kg	1.29E+02	1.77E-04	5.05E-04	3.81E-08
14	3	Surface	Iron	mg/kg	3.48E+04	4.77E-02	1.36E-01	1.03E-05
14	3	Surface	Manganese	mg/kg	1.06E+03	1.45E-03	3.30E-03	3.11E-07
14	3	Surface	Mercury	mg/kg	7.48E+00	1.02E-05	2.92E-05	6.61E-05
14	3	Surface	Molybdenum	mg/kg	2.21E+01	3.02E-05	8.62E-05	6.50E-09
14	3	Surface	Nickel	mg/kg	5.76E+02	7.90E-04	1.80E-03	1.70E-07
14	3	Surface	PCB, Total	mg/kg	8.65E+00	1.18E-05	9.45E-05	4.32E-06
14	3	Surface	Uranium	mg/kg	2.18E+02	2.98E-04	8.50E-04	6.41E-08
14	3	Surface	Uranium-238	pCi/g	1.50E+00	2.05E-06		4.42E-10
14	4	Surface	Antimony	mg/kg	4.30E+00	5.89E-06	1.68E-05	1.27E-09
14	4	Surface	Arsenic	mg/kg	1.33E+01	1.82E-05	3.11E-05	3.91E-09
14	4	Surface	Chromium	mg/kg	7.20E+01	9.87E-05	2.81E-04	2.12E-08
14	4	Surface	Copper	mg/kg	3.54E+02	4.84E-04	1.38E-03	1.04E-07
14	4	Surface	Iron	mg/kg	3.88E+04	5.32E-02	1.52E-01	1.14E-05
14	4	Surface	Mercury	mg/kg	4.87E-01	6.67E-07	1.90E-06	4.30E-06
14	4	Surface	Neptunium-237	pCi/g	2.68E+00	3.67E-06		7.89E-10
14	4	Surface	Nickel	mg/kg	7.31E+02	1.00E-03	2.28E-03	2.15E-07
14	4	Surface	PCB, Total	mg/kg	6.61E+00	9.05E-06	7.22E-05	3.30E-06
14	4	Surface	Silver	mg/kg	1.17E+01	1.60E-05	3.65E-05	3.45E-09
14	4	Surface	Thorium-230	pCi/g	8.33E+00	1.14E-05		2.45E-09
14	4	Surface	Total PAH	mg/kg	2.51E-01	3.44E-07	2.55E-06	5.48E-09
14	4	Surface	Uranium	mg/kg	3.72E+02	5.09E-04	1.45E-03	1.09E-07
14	4	Surface	Uranium-234	pCi/g	1.13E+02	1.55E-04		3.33E-08
14	4	Surface	Uranium-235	pCi/g	8.00E+00	1.10E-05		2.36E-09
14	4	Surface	Uranium-238	pCi/g	1.69E+02	2.32E-04		4.98E-08
14	5	Surface	Antimony	mg/kg	2.30E+00	3.15E-06	8.98E-06	6.77E-10
14	5	Surface	Arsenic	mg/kg	1.31E+01	1.79E-05	3.06E-05	3.85E-09
14	5	Surface	Cadmium	mg/kg	3.90E+00	5.34E-06	3.05E-07	1.15E-09
14	5	Surface	Chromium	mg/kg	4.70E+01	6.43E-05	1.83E-04	1.38E-08
14	5	Surface	Cobalt	mg/kg	1.40E+01	1.92E-05	5.47E-05	4.12E-09
14	5	Surface	Copper	mg/kg	1.34E+02	1.83E-04	5.21E-04	3.93E-08
14	5	Surface	Iron	mg/kg	3.92E+04	5.37E-02	1.53E-01	1.15E-05
14	5	Surface	Manganese	mg/kg	8.28E+02	1.13E-03	2.58E-03	2.44E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	5	Surface	Mercury	mg/kg	1.09E+01	1.50E-05	4.27E-05	9.67E-05
14	5	Surface	Neptunium-237	pCi/g	1.74E+00	2.38E-06		5.12E-10
14	5	Surface	Nickel	mg/kg	4.61E+02	6.32E-04	1.44E-03	1.36E-07
14	5	Surface	PCB, Total	mg/kg	1.00E+00	1.37E-06	1.09E-05	5.00E-07
14	5	Surface	Silver	mg/kg	1.29E+01	1.76E-05	4.02E-05	3.79E-09
14	5	Surface	Technetium-99	pCi/g	1.01E+02	1.38E-04		2.97E-08
14	5	Surface	Thallium	mg/kg	4.10E-01	5.62E-07	1.60E-06	1.21E-10
14	5	Surface	Thorium-230	pCi/g	1.39E+01	1.90E-05		4.09E-09
14	5	Surface	Total PAH	mg/kg	1.21E-01	1.66E-07	1.23E-06	2.64E-09
14	5	Surface	Uranium	mg/kg	2.62E+02	3.59E-04	1.02E-03	7.72E-08
14	5	Surface	Uranium-234	pCi/g	5.22E+01	7.15E-05		1.54E-08
14	5	Surface	Uranium-235	pCi/g	3.33E+00	4.56E-06		9.81E-10
14	5	Surface	Uranium-238	pCi/g	9.42E+01	1.29E-04		2.77E-08
14	6	Surface	Antimony	mg/kg	2.70E+00	3.70E-06	1.05E-05	7.95E-10
14	6	Surface	Cadmium	mg/kg	8.40E-01	1.15E-06	6.56E-08	2.47E-10
14	6	Surface	Chromium	mg/kg	4.46E+02	6.11E-04	1.74E-03	1.31E-07
14	6	Surface	Copper	mg/kg	1.22E+02	1.68E-04	4.77E-04	3.60E-08
14	6	Surface	Mercury	mg/kg	3.47E-01	4.75E-07	1.35E-06	3.07E-06
14	6	Surface	Neptunium-237	pCi/g	2.65E+00	3.63E-06		7.80E-10
14	6	Surface	Nickel	mg/kg	9.63E+02	1.32E-03	3.01E-03	2.84E-07
14	6	Surface	PCB, Total	mg/kg	5.00E+00	6.85E-06	5.47E-05	2.50E-06
14	6	Surface	Silver	mg/kg	1.19E+01	1.63E-05	3.71E-05	3.50E-09
14	6	Surface	Uranium	mg/kg	5.79E+02	7.93E-04	2.26E-03	1.70E-07
14	6	Surface	Uranium-234	pCi/g	3.41E+01	4.67E-05		1.00E-08
14	6	Surface	Uranium-235	pCi/g	2.27E+00	3.11E-06		6.68E-10
14	6	Surface	Uranium-238	pCi/g	5.08E+01	6.96E-05		1.50E-08
14	7	Surface	Antimony	mg/kg	7.50E-01	1.03E-06	2.93E-06	2.21E-10
14	7	Surface	Arsenic	mg/kg	1.13E+01	1.55E-05	2.65E-05	3.33E-09
14	7	Surface	Cadmium	mg/kg	2.70E+00	3.70E-06	2.11E-07	7.95E-10
14	7	Surface	Chromium	mg/kg	6.46E+01	8.84E-05	2.52E-04	1.90E-08
14	7	Surface	Mercury	mg/kg	7.82E+00	1.07E-05	3.05E-05	6.91E-05
14	7	Surface	Neptunium-237	pCi/g	1.49E+00	2.04E-06		4.39E-10
14	7	Surface	Nickel	mg/kg	1.22E+03	1.68E-03	3.82E-03	3.60E-07
14	7	Surface	PCB, Total	mg/kg	7.60E+00	1.04E-05	8.31E-05	3.80E-06
14	7	Surface	Total PAH	mg/kg	6.31E-02	8.65E-08	6.41E-07	1.38E-09
14	7	Surface	Uranium	mg/kg	3.33E+02	4.56E-04	1.30E-03	9.80E-08
14	7	Surface	Uranium-234	pCi/g	1.28E+01	1.75E-05		3.77E-09
14	7	Surface	Uranium-235	pCi/g	9.60E-01	1.32E-06		2.83E-10
14	7	Surface	Uranium-238	pCi/g	2.13E+01	2.92E-05		6.27E-09
14	8	Surface	Antimony	mg/kg	6.10E-01	8.36E-07	2.38E-06	1.80E-10
14	8	Surface	Arsenic	mg/kg	1.14E+01	1.56E-05	2.67E-05	3.35E-09
14	8	Surface	Chromium	mg/kg	4.60E+01	6.31E-05	1.80E-04	1.36E-08
14	8	Surface	Mercury	mg/kg	7.90E+00	1.08E-05	3.08E-05	6.98E-05
14	8	Surface	Neptunium-237	pCi/g	8.80E-01	1.21E-06		2.59E-10
14	8	Surface	Nickel	mg/kg	6.73E+02	9.21E-04	2.10E-03	1.98E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	8	Surface	PCB, Total	mg/kg	5.00E+00	6.85E-06	5.47E-05	2.50E-06
14	8	Surface	Silver	mg/kg	9.63E+00	1.32E-05	3.01E-05	2.84E-09
14	8	Surface	Total PAH	mg/kg	6.28E-02	8.60E-08	6.37E-07	1.37E-09
14	8	Surface	Uranium	mg/kg	3.35E+02	4.59E-04	1.31E-03	9.87E-08
14	8	Surface	Uranium-235	pCi/g	2.38E-01	3.26E-07		7.01E-11
14	8	Surface	Uranium-238	pCi/g	5.92E+00	8.11E-06		1.74E-09
14	9	Surface	Antimony	mg/kg	2.00E+00	2.74E-06	7.81E-06	5.89E-10
14	9	Surface	Arsenic	mg/kg	1.40E+01	1.92E-05	3.29E-05	4.13E-09
14	9	Surface	Cadmium	mg/kg	9.40E-01	1.29E-06	7.34E-08	2.77E-10
14	9	Surface	Cesium-137	pCi/g	4.53E-01	6.21E-07		1.33E-10
14	9	Surface	Chromium	mg/kg	4.64E+01	6.36E-05	1.81E-04	1.37E-08
14	9	Surface	Mercury	mg/kg	1.13E+00	1.55E-06	4.41E-06	9.98E-06
14	9	Surface	Neptunium-237	pCi/g	1.09E+01	1.50E-05		3.22E-09
14	9	Surface	Nickel	mg/kg	9.43E+02	1.29E-03	2.95E-03	2.78E-07
14	9	Surface	PCB, Total	mg/kg	6.84E+00	9.37E-06	7.48E-05	3.42E-06
14	9	Surface	Technetium-99	pCi/g	1.96E+02	2.68E-04		5.77E-08
14	9	Surface	Total PAH	mg/kg	4.87E-01	6.68E-07	4.95E-06	1.07E-08
14	9	Surface	Uranium	mg/kg	1.46E+03	2.01E-03	5.72E-03	4.31E-07
14	9	Surface	Uranium-234	pCi/g	8.32E+02	1.14E-03		2.45E-07
14	9	Surface	Uranium-235	pCi/g	5.46E+01	7.47E-05		1.61E-08
14	9	Surface	Uranium-238	pCi/g	1.20E+03	1.64E-03		3.53E-07
14	10	Surface	Antimony	mg/kg	9.40E-01	1.29E-06	3.67E-06	2.77E-10
14	10	Surface	Arsenic	mg/kg	1.12E+01	1.54E-05	2.63E-05	3.31E-09
14	10	Surface	Chromium	mg/kg	4.19E+01	5.73E-05	1.63E-04	1.23E-08
14	10	Surface	Copper	mg/kg	1.41E+02	1.93E-04	5.51E-04	4.16E-08
14	10	Surface	Iron	mg/kg	2.75E+04	3.76E-02	1.07E-01	8.08E-06
14	10	Surface	Mercury	mg/kg	2.51E+01	3.44E-05	9.80E-05	2.22E-04
14	10	Surface	Neptunium-237	pCi/g	2.64E+00	3.62E-06		7.77E-10
14	10	Surface	Nickel	mg/kg	6.00E+02	8.22E-04	1.88E-03	1.77E-07
14	10	Surface	PCB, Total	mg/kg	9.38E+00	1.29E-05	1.03E-04	4.69E-06
14	10	Surface	Total PAH	mg/kg	2.72E-01	3.72E-07	2.76E-06	5.93E-09
14	10	Surface	Uranium	mg/kg	2.88E+02	3.95E-04	1.13E-03	8.49E-08
14	10	Surface	Uranium-234	pCi/g	2.42E+01	3.32E-05		7.13E-09
14	10	Surface	Uranium-235	pCi/g	1.76E+00	2.41E-06		5.18E-10
14	10	Surface	Uranium-238	pCi/g	4.09E+01	5.60E-05		1.20E-08
15	1	Surface	Antimony	mg/kg	6.40E-01	8.77E-07	2.50E-06	1.88E-10
15	1	Surface	Arsenic	mg/kg	1.24E+01	1.69E-05	2.90E-05	3.64E-09
15	1	Surface	Chromium	mg/kg	5.61E+01	7.68E-05	2.19E-04	1.65E-08
15	1	Surface	Copper	mg/kg	1.95E+02	2.67E-04	7.61E-04	5.74E-08
15	1	Surface	Iron	mg/kg	2.95E+04	4.04E-02	1.15E-01	8.69E-06
15	1	Surface	Nickel	mg/kg	1.33E+02	1.82E-04	4.14E-04	3.90E-08
15	1	Surface	PCB, Total	mg/kg	7.80E-02	1.07E-07	8.53E-07	3.90E-08
15	1	Surface	Silver	mg/kg	1.23E+01	1.68E-05	3.84E-05	3.62E-09
15	1	Surface	Total PAH	mg/kg	1.71E+00	2.35E-06	1.74E-05	3.75E-08
15	1	Surface	Uranium	mg/kg	3.09E+01	4.24E-05	1.21E-04	9.11E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	1	Surface	Uranium-238	pCi/g	1.85E+00	2.53E-06		5.45E-10
15	2	Surface	Antimony	mg/kg	6.60E-01	9.04E-07	2.58E-06	1.94E-10
15	2	Surface	Arsenic	mg/kg	1.63E+01	2.23E-05	3.81E-05	4.79E-09
15	2	Surface	Chromium	mg/kg	5.90E+01	8.08E-05	2.30E-04	1.74E-08
15	2	Surface	Iron	mg/kg	3.89E+04	5.33E-02	1.52E-01	1.15E-05
15	2	Surface	Mercury	mg/kg	9.33E+00	1.28E-05	3.64E-05	8.24E-05
15	2	Surface	Neptunium-237	pCi/g	1.35E-01	1.85E-07		3.98E-11
15	2	Surface	Nickel	mg/kg	1.97E+02	2.70E-04	6.16E-04	5.81E-08
15	2	Surface	PCB, Total	mg/kg	3.30E-01	4.52E-07	3.61E-06	1.65E-07
15	2	Surface	Total PAH	mg/kg	2.11E+00	2.89E-06	2.14E-05	4.61E-08
15	2	Surface	Uranium	mg/kg	1.32E+02	1.80E-04	5.14E-04	3.88E-08
15	2	Surface	Uranium-234	pCi/g	6.51E+00	8.92E-06		1.92E-09
15	2	Surface	Uranium-235	pCi/g	3.80E-01	5.21E-07		1.12E-10
15	2	Surface	Uranium-238	pCi/g	1.21E+01	1.66E-05		3.56E-09
15	3	Surface	Antimony	mg/kg	2.45E+01	3.36E-05	9.57E-05	7.21E-09
15	3	Surface	Arsenic	mg/kg	2.60E+01	3.56E-05	6.09E-05	7.65E-09
15	3	Surface	Beryllium	mg/kg	7.60E-01	1.04E-06	4.15E-07	2.24E-10
15	3	Surface	Cadmium	mg/kg	1.19E+01	1.63E-05	9.29E-07	3.50E-09
15	3	Surface	Chromium	mg/kg	7.53E+01	1.03E-04	2.94E-04	2.22E-08
15	3	Surface	Cobalt	mg/kg	3.41E+01	4.67E-05	1.33E-04	1.00E-08
15	3	Surface	Copper	mg/kg	1.40E+03	1.91E-03	5.45E-03	4.11E-07
15	3	Surface	Iron	mg/kg	9.20E+04	1.26E-01	3.59E-01	2.71E-05
15	3	Surface	Manganese	mg/kg	1.60E+03	2.20E-03	5.01E-03	4.72E-07
15	3	Surface	Mercury	mg/kg	2.74E+00	3.75E-06	1.07E-05	2.42E-05
15	3	Surface	Molybdenum	mg/kg	1.70E+01	2.33E-05	6.64E-05	5.01E-09
15	3	Surface	Neptunium-237	pCi/g	4.10E+00	5.62E-06		1.21E-09
15	3	Surface	Nickel	mg/kg	7.57E+02	1.04E-03	2.36E-03	2.23E-07
15	3	Surface	PCB, Total	mg/kg	6.82E+00	9.35E-06	7.46E-05	3.41E-06
15	3	Surface	Selenium	mg/kg	2.65E+01	3.62E-05	1.03E-04	7.79E-09
15	3	Surface	Silver	mg/kg	3.20E+00	4.38E-06	9.99E-06	9.42E-10
15	3	Surface	Technetium-99	pCi/g	3.67E+02	5.03E-04		1.08E-07
15	3	Surface	Thorium-230	pCi/g	7.23E+00	9.90E-06		2.13E-09
15	3	Surface	Total PAH	mg/kg	1.45E+00	1.99E-06	1.48E-05	3.18E-08
15	3	Surface	Uranium	mg/kg	2.16E+02	2.96E-04	8.43E-04	6.36E-08
15	3	Surface	Uranium-234	pCi/g	6.96E+01	9.53E-05		2.05E-08
15	3	Surface	Uranium-235	pCi/g	4.21E+00	5.77E-06		1.24E-09
15	3	Surface	Uranium-238	pCi/g	9.67E+01	1.32E-04		2.85E-08
15	3	Surface	Zinc	mg/kg	8.79E+02	1.20E-03	3.43E-03	2.59E-07
15	4	Surface	Antimony	mg/kg	7.40E+00	1.01E-05	2.89E-05	2.18E-09
15	4	Surface	Arsenic	mg/kg	3.47E+01	4.75E-05	8.12E-05	1.02E-08
15	4	Surface	Cadmium	mg/kg	1.40E+00	1.92E-06	1.09E-07	4.12E-10
15	4	Surface	Chromium	mg/kg	1.02E+02	1.40E-04	3.99E-04	3.01E-08
15	4	Surface	Copper	mg/kg	7.05E+02	9.66E-04	2.75E-03	2.08E-07
15	4	Surface	Iron	mg/kg	7.81E+04	1.07E-01	3.05E-01	2.30E-05
15	4	Surface	Manganese	mg/kg	1.54E+03	2.10E-03	4.80E-03	4.52E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	4	Surface	Mercury	mg/kg	1.41E+01	1.93E-05	5.50E-05	1.24E-04
15	4	Surface	Neptunium-237	pCi/g	8.00E-01	1.10E-06		2.36E-10
15	4	Surface	Nickel	mg/kg	1.37E+03	1.88E-03	4.29E-03	4.05E-07
15	4	Surface	PCB, Total	mg/kg	2.67E+01	3.66E-05	2.92E-04	1.34E-05
15	4	Surface	Silver	mg/kg	1.46E+01	2.00E-05	4.56E-05	4.30E-09
15	4	Surface	Total PAH	mg/kg	2.44E+00	3.35E-06	2.48E-05	5.34E-08
15	4	Surface	Uranium	mg/kg	1.57E+02	2.14E-04	6.11E-04	4.61E-08
15	4	Surface	Uranium-234	pCi/g	1.07E+01	1.47E-05		3.15E-09
15	4	Surface	Uranium-235	pCi/g	4.30E-01	5.89E-07		1.27E-10
15	4	Surface	Uranium-238	pCi/g	1.87E+01	2.56E-05		5.51E-09
15	4	Surface	Zinc	mg/kg	1.19E+03	1.63E-03	4.64E-03	3.50E-07
15	5	Surface	Antimony	mg/kg	3.10E+00	4.25E-06	1.21E-05	9.13E-10
15	5	Surface	Arsenic	mg/kg	1.28E+01	1.75E-05	3.00E-05	3.77E-09
15	5	Surface	Cadmium	mg/kg	1.50E+00	2.05E-06	1.17E-07	4.42E-10
15	5	Surface	Chromium	mg/kg	4.28E+01	5.86E-05	1.67E-04	1.26E-08
15	5	Surface	Copper	mg/kg	5.63E+03	7.72E-03	2.20E-02	1.66E-06
15	5	Surface	Mercury	mg/kg	3.38E-01	4.63E-07	1.32E-06	2.99E-06
15	5	Surface	Neptunium-237	pCi/g	6.90E-01	9.45E-07		2.03E-10
15	5	Surface	Nickel	mg/kg	5.10E+02	6.99E-04	1.59E-03	1.50E-07
15	5	Surface	PCB, Total	mg/kg	2.51E+01	3.44E-05	2.75E-04	1.26E-05
15	5	Surface	Silver	mg/kg	1.46E+01	2.00E-05	4.56E-05	4.30E-09
15	5	Surface	Technetium-99	pCi/g	1.07E+02	1.47E-04		3.15E-08
15	5	Surface	Total PAH	mg/kg	5.11E-01	6.99E-07	5.18E-06	1.12E-08
15	5	Surface	Uranium	mg/kg	2.13E+02	2.92E-04	8.33E-04	6.28E-08
15	5	Surface	Uranium-234	pCi/g	5.83E+00	7.99E-06		1.72E-09
15	5	Surface	Uranium-235	pCi/g	4.60E-01	6.30E-07		1.35E-10
15	5	Surface	Uranium-238	pCi/g	1.03E+01	1.41E-05		3.03E-09
15	5	Surface	Zinc	mg/kg	1.52E+03	2.09E-03	5.95E-03	4.49E-07
15	6	Surface	Antimony	mg/kg	5.10E+00	6.99E-06	1.99E-05	1.50E-09
15	6	Surface	Arsenic	mg/kg	1.24E+01	1.70E-05	2.91E-05	3.66E-09
15	6	Surface	Cadmium	mg/kg	1.50E+00	2.05E-06	1.17E-07	4.42E-10
15	6	Surface	Chromium	mg/kg	5.80E+01	7.94E-05	2.26E-04	1.71E-08
15	6	Surface	Cobalt	mg/kg	1.62E+01	2.22E-05	6.32E-05	4.77E-09
15	6	Surface	Copper	mg/kg	4.23E+02	5.79E-04	1.65E-03	1.25E-07
15	6	Surface	Iron	mg/kg	3.15E+04	4.32E-02	1.23E-01	9.28E-06
15	6	Surface	Mercury	mg/kg	4.10E-01	5.62E-07	1.60E-06	3.62E-06
15	6	Surface	Neptunium-237	pCi/g	6.40E-01	8.77E-07		1.88E-10
15	6	Surface	Nickel	mg/kg	3.24E+02	4.44E-04	1.01E-03	9.54E-08
15	6	Surface	PCB, Total	mg/kg	6.17E+00	8.45E-06	6.74E-05	3.08E-06
15	6	Surface	Silver	mg/kg	1.09E+01	1.49E-05	3.41E-05	3.21E-09
15	6	Surface	Total PAH	mg/kg	1.62E+00	2.22E-06	1.65E-05	3.55E-08
15	6	Surface	Uranium	mg/kg	6.70E+01	9.18E-05	2.62E-04	1.97E-08
15	6	Surface	Uranium-234	pCi/g	8.74E+00	1.20E-05		2.57E-09
15	6	Surface	Uranium-235	pCi/g	5.70E-01	7.81E-07		1.68E-10
15	6	Surface	Uranium-238	pCi/g	1.54E+01	2.11E-05		4.53E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	7	Surface	Antimony	mg/kg	7.50E-01	1.03E-06	2.93E-06	2.21E-10
15	7	Surface	Arsenic	mg/kg	1.61E+01	2.20E-05	3.77E-05	4.74E-09
15	7	Surface	Cadmium	mg/kg	1.00E+00	1.37E-06	7.81E-08	2.94E-10
15	7	Surface	Chromium	mg/kg	7.87E+01	1.08E-04	3.07E-04	2.32E-08
15	7	Surface	Copper	mg/kg	7.33E+02	1.00E-03	2.86E-03	2.16E-07
15	7	Surface	Iron	mg/kg	3.42E+04	4.69E-02	1.34E-01	1.01E-05
15	7	Surface	Manganese	mg/kg	1.11E+03	1.51E-03	3.45E-03	3.25E-07
15	7	Surface	Neptunium-237	pCi/g	2.23E-01	3.05E-07		6.57E-11
15	7	Surface	Nickel	mg/kg	5.59E+02	7.65E-04	1.74E-03	1.64E-07
15	7	Surface	PCB, Total	mg/kg	2.57E+01	3.52E-05	2.81E-04	1.28E-05
15	7	Surface	Silver	mg/kg	1.29E+01	1.76E-05	4.02E-05	3.79E-09
15	7	Surface	Total PAH	mg/kg	1.59E-01	2.18E-07	1.61E-06	3.47E-09
15	7	Surface	Uranium	mg/kg	5.39E+01	7.38E-05	2.10E-04	1.59E-08
15	7	Surface	Uranium-234	pCi/g	6.49E+00	8.89E-06		1.91E-09
15	7	Surface	Uranium-235	pCi/g	4.50E-01	6.16E-07		1.33E-10
15	7	Surface	Uranium-238	pCi/g	8.05E+00	1.10E-05		2.37E-09
15	7	Surface	Zinc	mg/kg	5.87E+02	8.04E-04	2.29E-03	1.73E-07
15	8	Surface	Antimony	mg/kg	5.40E+00	7.40E-06	2.11E-05	1.59E-09
15	8	Surface	Arsenic	mg/kg	1.17E+01	1.60E-05	2.73E-05	3.43E-09
15	8	Surface	Chromium	mg/kg	7.74E+01	1.06E-04	3.02E-04	2.28E-08
15	8	Surface	Copper	mg/kg	1.62E+02	2.22E-04	6.32E-04	4.76E-08
15	8	Surface	Iron	mg/kg	2.83E+04	3.87E-02	1.10E-01	8.32E-06
15	8	Surface	Mercury	mg/kg	1.00E+01	1.38E-05	3.92E-05	8.87E-05
15	8	Surface	Neptunium-237	pCi/g	3.65E-01	5.00E-07		1.07E-10
15	8	Surface	Nickel	mg/kg	1.82E+02	2.49E-04	5.68E-04	5.35E-08
15	8	Surface	PCB, Total	mg/kg	4.90E+00	6.71E-06	5.36E-05	2.45E-06
15	8	Surface	Silver	mg/kg	1.36E+01	1.86E-05	4.23E-05	3.99E-09
15	8	Surface	Total PAH	mg/kg	3.59E-01	4.91E-07	3.64E-06	7.84E-09
15	8	Surface	Uranium	mg/kg	4.46E+01	6.10E-05	1.74E-04	1.31E-08
15	8	Surface	Uranium-235	pCi/g	3.04E-01	4.16E-07		8.95E-11
15	8	Surface	Uranium-238	pCi/g	6.64E+00	9.10E-06		1.96E-09
15	9	Surface	Arsenic	mg/kg	1.10E+01	1.51E-05	2.59E-05	3.25E-09
15	9	Surface	Chromium	mg/kg	9.56E+01	1.31E-04	3.73E-04	2.82E-08
15	9	Surface	Copper	mg/kg	1.36E+02	1.86E-04	5.30E-04	4.00E-08
15	9	Surface	Iron	mg/kg	2.76E+04	3.78E-02	1.08E-01	8.13E-06
15	9	Surface	Neptunium-237	pCi/g	1.28E-01	1.75E-07		3.77E-11
15	9	Surface	Nickel	mg/kg	1.49E+02	2.04E-04	4.65E-04	4.38E-08
15	9	Surface	PCB, Total	mg/kg	3.30E-01	4.52E-07	3.61E-06	1.65E-07
15	9	Surface	Silver	mg/kg	1.54E+01	2.11E-05	4.82E-05	4.54E-09
15	9	Surface	Total PAH	mg/kg	2.38E-01	3.26E-07	2.42E-06	5.21E-09
15	9	Surface	Uranium	mg/kg	3.07E+01	4.20E-05	1.20E-04	9.03E-09
15	9	Surface	Uranium-235	pCi/g	2.42E-01	3.32E-07		7.13E-11
15	9	Surface	Uranium-238	pCi/g	7.12E+00	9.75E-06		2.10E-09
15	10	Surface	Chromium	mg/kg	3.55E+01	4.86E-05	1.39E-04	1.05E-08
15	10	Surface	Mercury	mg/kg	7.84E+00	1.07E-05	3.06E-05	6.93E-05

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	10	Surface	Nickel	mg/kg	1.46E+02	2.00E-04	4.55E-04	4.29E-08
15	10	Surface	Silver	mg/kg	1.08E+01	1.48E-05	3.38E-05	3.18E-09
15	10	Surface	Total PAH	mg/kg	1.28E-01	1.76E-07	1.30E-06	2.81E-09
15	10	Surface	Uranium	mg/kg	6.47E+01	8.87E-05	2.53E-04	1.91E-08
16	1	Surface	Cesium-137	pCi/g	1.10E+00	1.51E-06		3.24E-10
16	1	Surface	PCB, Total	mg/kg	9.60E-02	1.32E-07	1.05E-06	4.80E-08
16	1	Surface	Total PAH	mg/kg	2.72E-02	3.73E-08	2.76E-07	5.95E-10
16	2	Surface	Beryllium	mg/kg	8.40E-01	1.15E-06	4.59E-07	2.47E-10
16	2	Surface	Chromium	mg/kg	2.04E+01	2.79E-05	7.96E-05	6.01E-09
16	2	Surface	Nickel	mg/kg	2.16E+01	2.96E-05	6.75E-05	6.36E-09
16	3	Surface	PCB, Total	mg/kg	9.49E-01	1.30E-06	1.04E-05	4.75E-07
16	4	Surface	Cesium-137	pCi/g	3.66E+01	5.01E-05		1.08E-08
16	4	Surface	Cobalt-60	pCi/g	8.53E-03	1.17E-08		2.51E-12
16	4	Surface	Neptunium-237	pCi/g	7.12E+00	9.75E-06		2.10E-09
16	4	Surface	PCB, Total	mg/kg	3.20E-01	4.38E-07	3.50E-06	1.60E-07
16	4	Surface	Technetium-99	pCi/g	2.96E+02	4.05E-04		8.71E-08
16	4	Surface	Thorium-230	pCi/g	5.29E+00	7.25E-06		1.56E-09
16	4	Surface	Total PAH	mg/kg	2.93E+00	4.01E-06	2.97E-05	6.40E-08
16	4	Surface	Uranium-234	pCi/g	1.19E+02	1.63E-04		3.50E-08
16	4	Surface	Uranium-235	pCi/g	8.23E+00	1.13E-05		2.42E-09
16	4	Surface	Uranium-238	pCi/g	2.70E+02	3.70E-04		7.95E-08
19	1	Surface	Beryllium	mg/kg	1.10E+00	1.51E-06	6.01E-07	3.24E-10
19	1	Surface	Cadmium	mg/kg	1.20E+00	1.64E-06	9.37E-08	3.53E-10
19	1	Surface	Thallium	mg/kg	9.80E-01	1.34E-06	3.83E-06	2.89E-10
19	1	Surface	Total PAH	mg/kg	5.23E+00	7.16E-06	5.31E-05	1.14E-07
26	1	Surface	Arsenic	mg/kg	1.29E+01	1.76E-05	3.02E-05	3.79E-09
26	1	Surface	Beryllium	mg/kg	6.69E-01	9.16E-07	3.66E-07	1.97E-10
26	1	Surface	Cadmium	mg/kg	1.99E+00	2.73E-06	1.56E-07	5.87E-10
26	1	Surface	Cesium-137	pCi/g	3.16E+00	4.33E-06		9.32E-10
26	1	Surface	Chromium	mg/kg	1.90E+01	2.60E-05	7.42E-05	5.60E-09
26	1	Surface	Cobalt-60	pCi/g	1.93E-03	2.64E-09		5.68E-13
26	1	Surface	Mercury	mg/kg	1.66E-01	2.27E-07	6.48E-07	1.47E-06
26	1	Surface	Neptunium-237	pCi/g	2.61E-01	3.58E-07		7.69E-11
26	1	Surface	Nickel	mg/kg	1.76E+01	2.41E-05	5.49E-05	5.18E-09
26	1	Surface	PCB, Total	mg/kg	9.33E-01	1.28E-06	1.02E-05	4.67E-07
26	1	Surface	Plutonium-239/240	pCi/g	4.04E+00	5.53E-06		1.19E-09
26	1	Surface	Thorium-230	pCi/g	3.82E+00	5.23E-06		1.12E-09
26	1	Surface	Total PAH	mg/kg	5.00E-02	6.85E-08	5.08E-07	1.09E-09
26	1	Surface	Uranium	mg/kg	1.29E+02	1.76E-04	5.02E-04	3.79E-08
26	1	Surface	Uranium-234	pCi/g	4.67E+00	6.39E-06		1.37E-09
26	1	Surface	Uranium-235	pCi/g	6.41E-01	8.78E-07		1.89E-10
26	1	Surface	Uranium-238	pCi/g	3.47E+01	4.75E-05		1.02E-08
26	2	Surface	Aluminum	mg/kg	2.17E+04	2.97E-02	8.46E-02	6.38E-06
26	2	Surface	Arsenic	mg/kg	4.72E+01	6.47E-05	1.11E-04	1.39E-08
26	2	Surface	Barium	mg/kg	1.49E+02	2.04E-04	5.81E-04	4.38E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
26	2	Surface	Beryllium	mg/kg	9.69E+00	1.33E-05	5.30E-06	2.85E-09
26	2	Surface	Cadmium	mg/kg	2.38E+00	3.26E-06	1.86E-07	7.01E-10
26	2	Surface	Cesium-137	pCi/g	5.92E+00	8.11E-06		1.74E-09
26	2	Surface	Chromium	mg/kg	3.90E+01	5.34E-05	1.52E-04	1.15E-08
26	2	Surface	Cobalt	mg/kg	5.20E+01	7.12E-05	2.03E-04	1.53E-08
26	2	Surface	Copper	mg/kg	1.31E+02	1.79E-04	5.11E-04	3.86E-08
26	2	Surface	Iron	mg/kg	5.32E+04	7.29E-02	2.08E-01	1.57E-05
26	2	Surface	Neptunium-237	pCi/g	7.89E-01	1.08E-06		2.32E-10
26	2	Surface	Nickel	mg/kg	1.13E+02	1.55E-04	3.53E-04	3.33E-08
26	2	Surface	PCB, Total	mg/kg	2.23E+00	3.05E-06	2.44E-05	1.11E-06
26	2	Surface	Thallium	mg/kg	1.39E+01	1.90E-05	5.43E-05	4.09E-09
26	2	Surface	Thorium-230	pCi/g	1.51E+01	2.07E-05		4.46E-09
26	2	Surface	Uranium	mg/kg	6.46E+02	8.85E-04	2.52E-03	1.90E-07
26	2	Surface	Uranium-234	pCi/g	1.91E+01	2.61E-05		5.62E-09
26	2	Surface	Uranium-235	pCi/g	1.71E+00	2.34E-06		5.03E-10
26	2	Surface	Uranium-238	pCi/g	5.14E+01	7.05E-05		1.51E-08
26	2	Surface	Vanadium	mg/kg	3.13E+01	4.28E-05	6.34E-05	9.20E-09
26	3	Surface	Aluminum	mg/kg	9.55E+03	1.31E-02	3.73E-02	2.81E-06
26	3	Surface	Antimony	mg/kg	1.40E+00	1.92E-06	5.47E-06	4.12E-10
26	3	Surface	Arsenic	mg/kg	5.09E+01	6.97E-05	1.19E-04	1.50E-08
26	3	Surface	Barium	mg/kg	4.48E+02	6.13E-04	1.75E-03	1.32E-07
26	3	Surface	Beryllium	mg/kg	2.54E+00	3.47E-06	1.39E-06	7.46E-10
26	3	Surface	Cadmium	mg/kg	2.34E+00	3.21E-06	1.83E-07	6.89E-10
26	3	Surface	Cesium-137	pCi/g	7.48E-01	1.02E-06		2.20E-10
26	3	Surface	Chromium	mg/kg	3.25E+01	4.46E-05	1.27E-04	9.58E-09
26	3	Surface	Cobalt	mg/kg	1.21E+01	1.66E-05	4.73E-05	3.57E-09
26	3	Surface	Mercury	mg/kg	3.87E-01	5.30E-07	1.51E-06	3.42E-06
26	3	Surface	Naphthalene	mg/kg	1.32E+00	1.81E-06	2.58E-05	1.31E-05
26	3	Surface	Neptunium-237	pCi/g	7.53E-01	1.03E-06		2.22E-10
26	3	Surface	Nickel	mg/kg	2.97E+01	4.07E-05	9.28E-05	8.75E-09
26	3	Surface	PCB, Total	mg/kg	2.52E+00	3.45E-06	2.75E-05	1.26E-06
26	3	Surface	Silver	mg/kg	2.59E+01	3.55E-05	8.09E-05	7.63E-09
26	3	Surface	Technetium-99	pCi/g	6.48E+01	8.87E-05		1.91E-08
26	3	Surface	Thallium	mg/kg	6.00E-01	8.22E-07	2.34E-06	1.77E-10
26	3	Surface	Thorium-230	pCi/g	7.10E+00	9.72E-06		2.09E-09
26	3	Surface	Total PAH	mg/kg	1.19E+00	1.63E-06	1.21E-05	2.60E-08
26	3	Surface	Uranium	mg/kg	9.88E+01	1.35E-04	3.86E-04	2.91E-08
26	3	Surface	Uranium-234	pCi/g	4.63E+01	6.35E-05		1.36E-08
26	3	Surface	Uranium-235	pCi/g	1.69E+00	2.32E-06		4.98E-10
26	3	Surface	Uranium-238	pCi/g	5.19E+01	7.10E-05		1.53E-08
26	3	Surface	Vanadium	mg/kg	3.77E+01	5.16E-05	7.65E-05	1.11E-08
26	4	Surface	Aluminum	mg/kg	1.07E+04	1.46E-02	4.16E-02	3.14E-06
26	4	Surface	Americium-241	pCi/g	1.27E+00	1.74E-06		3.75E-10
26	4	Surface	Antimony	mg/kg	6.00E-01	8.22E-07	2.34E-06	1.77E-10
26	4	Surface	Beryllium	mg/kg	6.91E-01	9.47E-07	3.78E-07	2.03E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
26	4	Surface	Cadmium	mg/kg	1.99E+00	2.73E-06	1.55E-07	5.86E-10
26	4	Surface	Cesium-137	pCi/g	6.38E-01	8.74E-07		1.88E-10
26	4	Surface	Chromium	mg/kg	8.57E+01	1.17E-04	3.35E-04	2.52E-08
26	4	Surface	Cobalt-60	pCi/g	1.21E-03	1.66E-09		3.56E-13
26	4	Surface	Copper	mg/kg	1.16E+02	1.59E-04	4.52E-04	3.41E-08
26	4	Surface	Mercury	mg/kg	3.07E+00	4.21E-06	1.20E-05	2.71E-05
26	4	Surface	Neptunium-237	pCi/g	1.36E+01	1.86E-05		4.00E-09
26	4	Surface	Nickel	mg/kg	7.54E+01	1.03E-04	2.36E-04	2.22E-08
26	4	Surface	PCB, Total	mg/kg	5.54E-01	7.59E-07	6.06E-06	2.77E-07
26	4	Surface	Plutonium-239/240	pCi/g	5.00E+00	6.85E-06		1.47E-09
26	4	Surface	Technetium-99	pCi/g	5.97E+02	8.18E-04		1.76E-07
26	4	Surface	Thorium-230	pCi/g	3.26E+01	4.47E-05		9.61E-09
26	4	Surface	Total PAH	mg/kg	2.83E-02	3.88E-08	2.87E-07	6.19E-10
26	4	Surface	Uranium	mg/kg	9.75E+02	1.34E-03	3.81E-03	2.87E-07
26	4	Surface	Uranium-234	pCi/g	1.54E+02	2.12E-04		4.55E-08
26	4	Surface	Uranium-235	pCi/g	8.80E+00	1.21E-05		2.59E-09
26	4	Surface	Uranium-235	pCi/g	3.19E+01	4.37E-05		9.39E-09
26	4	Surface	Uranium-238	pCi/g				
47	1	Surface	Aluminum	mg/kg	1.50E+04	2.05E-02	5.86E-02	4.42E-06
47	1	Surface	Antimony	mg/kg	9.00E-01	1.23E-06	3.51E-06	2.65E-10
47	1	Surface	Arsenic	mg/kg	4.52E+01	6.19E-05	1.06E-04	1.33E-08
47	1	Surface	Beryllium	mg/kg	7.00E-01	9.59E-07	3.83E-07	2.06E-10
47	1	Surface	Cadmium	mg/kg	4.25E+00	5.82E-06	3.32E-07	1.25E-09
47	1	Surface	Chromium	mg/kg	5.39E+01	7.38E-05	2.10E-04	1.59E-08
47	1	Surface	Cobalt	mg/kg	1.43E+01	1.96E-05	5.58E-05	4.21E-09
47	1	Surface	Iron	mg/kg	2.95E+04	4.04E-02	1.15E-01	8.69E-06
47	1	Surface	Naphthalene	mg/kg	1.90E+00	2.60E-06	3.71E-05	1.88E-05
47	1	Surface	Neptunium-237	pCi/g	1.15E-01	1.58E-07		3.39E-11
47	1	Surface	Nickel	mg/kg	8.25E+01	1.13E-04	2.58E-04	2.43E-08
47	1	Surface	PCB, Total	mg/kg	9.60E-01	1.32E-06	1.05E-05	4.80E-07
47	1	Surface	Plutonium-239/240	pCi/g	4.11E+00	5.63E-06		1.21E-09
47	1	Surface	Pyrene	mg/kg	1.11E+02	1.51E-04	1.12E-03	2.15E-05
47	1	Surface	Thorium-230	pCi/g	4.11E+01	5.63E-05		1.21E-08
47	1	Surface	Total PAH	mg/kg	5.41E+01	7.41E-05	5.49E-04	1.18E-06
47	1	Surface	Uranium	mg/kg	3.23E+01	4.43E-05	1.26E-04	9.52E-09
47	1	Surface	Uranium-234	pCi/g	6.85E+00	9.38E-06		2.02E-09
47	1	Surface	Uranium-235	pCi/g	5.00E-01	6.85E-07		1.47E-10
47	1	Surface	Uranium-238	pCi/g	7.93E+00	1.09E-05		2.34E-09
74	1	Surface	PCB, Total	mg/kg	2.97E+00	4.08E-06	3.25E-05	1.49E-06
74	1	Surface	Total PAH	mg/kg	3.16E+00	4.33E-06	3.21E-05	6.91E-08
74	1	Surface	Uranium-234	pCi/g	7.55E+00	1.03E-05		2.22E-09
74	1	Surface	Uranium-238	pCi/g	3.85E+01	5.27E-05		1.13E-08
75	1	Surface	Cadmium	mg/kg	1.10E+00	1.51E-06	8.59E-08	3.24E-10
75	1	Surface	Chromium	mg/kg	7.17E+01	9.82E-05	2.80E-04	2.11E-08
75	1	Surface	Copper	mg/kg	3.15E+02	4.32E-04	1.23E-03	9.28E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
75	1	Surface	Nickel	mg/kg	8.87E+01	1.22E-04	2.77E-04	2.61E-08
75	1	Surface	PCB, Total	mg/kg	2.30E-01	3.15E-07	2.51E-06	1.15E-07
75	1	Surface	Total PAH	mg/kg	2.21E-01	3.03E-07	2.25E-06	4.84E-09
76	1	Surface	Barium	mg/kg	2.69E+02	3.68E-04	1.05E-03	7.92E-08
76	1	Surface	PCB, Total	mg/kg	2.60E-01	3.56E-07	2.84E-06	1.30E-07
76	1	Surface	Total PAH	mg/kg	1.76E+00	2.41E-06	1.78E-05	3.84E-08
76	1	Surface	Uranium-238	pCi/g	1.45E+00	1.99E-06		4.27E-10
78	1	Surface	Cadmium	mg/kg	2.36E+00	3.23E-06	1.84E-07	6.95E-10
78	1	Surface	Chromium	mg/kg	3.75E+01	5.14E-05	1.46E-04	1.10E-08
78	1	Surface	Cobalt-60	pCi/g	5.91E-03	8.10E-09		1.74E-12
78	1	Surface	Naphthalene	mg/kg	1.60E+01	2.19E-05	3.12E-04	1.58E-04
78	1	Surface	Nickel	mg/kg	2.15E+01	2.95E-05	6.72E-05	6.33E-09
78	1	Surface	PCB, Total	mg/kg	1.20E+01	1.64E-05	1.31E-04	6.00E-06
78	1	Surface	Total PAH	mg/kg	3.91E+01	5.36E-05	3.97E-04	8.55E-07
78	1	Surface	Uranium-235	pCi/g	2.64E-01	3.62E-07		7.77E-11
78	1	Surface	Uranium-238	pCi/g	5.29E+00	7.25E-06		1.56E-09
80	1	Surface	Americium-241	pCi/g	6.40E+00	8.77E-06		1.88E-09
80	1	Surface	Antimony	mg/kg	9.10E-01	1.25E-06	3.55E-06	2.68E-10
80	1	Surface	Beryllium	mg/kg	7.80E-01	1.07E-06	4.26E-07	2.30E-10
80	1	Surface	Chromium	mg/kg	1.65E+02	2.26E-04	6.44E-04	4.86E-08
80	1	Surface	Mercury	mg/kg	4.50E-01	6.16E-07	1.76E-06	3.98E-06
80	1	Surface	Neptunium-237	pCi/g	5.05E-01	6.92E-07		1.49E-10
80	1	Surface	PCB, Total	mg/kg	1.46E+01	2.00E-05	1.60E-04	7.31E-06
80	1	Surface	Thorium-230	pCi/g	4.40E+00	6.03E-06		1.30E-09
80	1	Surface	Total PAH	mg/kg	1.42E-01	1.94E-07	1.44E-06	3.10E-09
80	1	Surface	Uranium	mg/kg	5.72E+03	7.84E-03	2.23E-02	1.69E-06
80	1	Surface	Uranium-234	pCi/g	2.29E+02	3.14E-04		6.74E-08
80	1	Surface	Uranium-235	pCi/g	3.00E+01	4.11E-05		8.83E-09
80	1	Surface	Uranium-238	pCi/g	1.92E+03	2.63E-03		5.66E-07
81	1	Surface	Aluminum	mg/kg	9.57E+03	1.31E-02	3.74E-02	2.82E-06
81	1	Surface	Arsenic	mg/kg	1.03E+01	1.40E-05	2.40E-05	3.02E-09
81	1	Surface	Beryllium	mg/kg	7.57E-01	1.04E-06	4.14E-07	2.23E-10
81	1	Surface	Chromium	mg/kg	8.62E+01	1.18E-04	3.37E-04	2.54E-08
81	1	Surface	Mercury	mg/kg	8.33E+00	1.14E-05	3.25E-05	7.36E-05
81	1	Surface	Nickel	mg/kg	7.29E+01	9.98E-05	2.28E-04	2.15E-08
81	1	Surface	PCB, Total	mg/kg	1.60E+02	2.19E-04	1.75E-03	7.99E-05
81	1	Surface	Silver	mg/kg	2.70E+00	3.70E-06	8.43E-06	7.95E-10
81	1	Surface	Total PAH	mg/kg	5.53E-01	7.58E-07	5.61E-06	1.21E-08
81	1	Surface	Uranium	mg/kg	6.50E+03	8.90E-03	2.54E-02	1.91E-06
81	1	Surface	Uranium-238	pCi/g	2.29E+00	3.13E-06		6.73E-10
99	1	Surface	Chromium	mg/kg	5.51E+01	7.55E-05	2.15E-04	1.62E-08
99	1	Surface	Cobalt-60	pCi/g	1.19E-02	1.63E-08		3.50E-12
99	1	Surface	Mercury	mg/kg	9.53E+00	1.31E-05	3.72E-05	8.42E-05
99	1	Surface	Nickel	mg/kg	7.02E+01	9.62E-05	2.19E-04	2.07E-08
99	1	Surface	Silver	mg/kg	1.03E+01	1.41E-05	3.22E-05	3.03E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
99	1	Surface	Uranium-238	pCi/g	9.45E-01	1.29E-06		2.78E-10
138	1	Surface	Antimony	mg/kg	5.39E+00	7.39E-06	2.11E-05	1.59E-09
138	1	Surface	Arsenic	mg/kg	1.06E+01	1.45E-05	2.49E-05	3.13E-09
138	1	Surface	Cadmium	mg/kg	5.42E+00	7.42E-06	4.23E-07	1.60E-09
138	1	Surface	Chromium	mg/kg	5.39E+01	7.38E-05	2.10E-04	1.59E-08
138	1	Surface	Mercury	mg/kg	1.30E+01	1.78E-05	5.07E-05	1.15E-04
138	1	Surface	Nickel	mg/kg	7.04E+01	9.64E-05	2.20E-04	2.07E-08
138	1	Surface	PCB, Total	mg/kg	5.00E-01	6.85E-07	5.47E-06	2.50E-07
138	1	Surface	Silver	mg/kg	1.01E+01	1.38E-05	3.15E-05	2.97E-09
138	1	Surface	Total PAH	mg/kg	9.74E-02	1.33E-07	9.89E-07	2.13E-09
138	2	Surface	Nickel	mg/kg	7.99E+01	1.09E-04	2.49E-04	2.35E-08
138	2	Surface	PCB, Total	mg/kg	9.20E-02	1.26E-07	1.01E-06	4.60E-08
138	2	Surface	Silver	mg/kg	1.04E+01	1.43E-05	3.26E-05	3.07E-09
138	2	Surface	Total PAH	mg/kg	3.84E-02	5.26E-08	3.90E-07	8.39E-10
153	1	Surface	PCB, Total	mg/kg	5.09E-01	6.97E-07	5.56E-06	2.55E-07
153	1	Surface	Total PAH	mg/kg	8.69E-02	1.19E-07	8.82E-07	1.90E-09
154	1	Surface	Arsenic	mg/kg	1.52E+01	2.08E-05	3.55E-05	4.47E-09
154	1	Surface	Chromium	mg/kg	4.28E+01	5.86E-05	1.67E-04	1.26E-08
154	1	Surface	Nickel	mg/kg	9.89E+01	1.35E-04	3.09E-04	2.91E-08
154	1	Surface	PCB, Total	mg/kg	3.20E+00	4.38E-06	3.50E-05	1.60E-06
154	1	Surface	Total PAH	mg/kg	1.04E+00	1.43E-06	1.06E-05	2.27E-08
154	1	Surface	Uranium	mg/kg	3.82E+01	5.23E-05	1.49E-04	1.12E-08
154	1	Surface	Uranium-238	pCi/g	3.06E+00	4.19E-06		9.01E-10
154	2	Surface	PCB, Total	mg/kg	4.00E-01	5.48E-07	4.37E-06	2.00E-07
155	1	Surface	Antimony	mg/kg	3.65E+00	5.01E-06	1.43E-05	1.08E-09
155	1	Surface	Chromium	mg/kg	3.47E+01	4.75E-05	1.35E-04	1.02E-08
155	1	Surface	Neptunium-237	pCi/g	1.03E-01	1.41E-07		3.03E-11
155	1	Surface	Nickel	mg/kg	7.65E+01	1.05E-04	2.39E-04	2.25E-08
155	1	Surface	PCB, Total	mg/kg	9.20E+00	1.26E-05	1.01E-04	4.60E-06
155	1	Surface	Silver	mg/kg	1.11E+01	1.52E-05	3.46E-05	3.26E-09
156	1	Surface	Chromium	mg/kg	4.90E+01	6.72E-05	1.91E-04	1.44E-08
156	1	Surface	Manganese	mg/kg	2.83E+03	3.88E-03	8.85E-03	8.34E-07
156	1	Surface	Mercury	mg/kg	9.87E+00	1.35E-05	3.85E-05	8.72E-05
156	1	Surface	Nickel	mg/kg	6.16E+01	8.44E-05	1.92E-04	1.81E-08
156	1	Surface	PCB, Total	mg/kg	3.00E-01	4.11E-07	3.28E-06	1.50E-07
156	1	Surface	Total PAH	mg/kg	8.26E-02	1.13E-07	8.38E-07	1.81E-09
156	1	Surface	Uranium	mg/kg	2.32E+01	3.18E-05	9.05E-05	6.83E-09
156	1	Surface	Uranium-238	pCi/g	2.19E+00	3.00E-06		6.45E-10
158	1	Surface	Antimony	mg/kg	5.23E-01	7.16E-07	2.04E-06	1.54E-10
158	1	Surface	Arsenic	mg/kg	1.01E+01	1.39E-05	2.37E-05	2.98E-09
158	1	Surface	Barium	mg/kg	2.19E+02	3.00E-04	8.54E-04	6.44E-08
158	1	Surface	Chromium	mg/kg	6.07E+01	8.32E-05	2.37E-04	1.79E-08
158	1	Surface	Cobalt	mg/kg	1.62E+01	2.22E-05	6.33E-05	4.78E-09
158	1	Surface	Manganese	mg/kg	9.91E+02	1.36E-03	3.09E-03	2.92E-07
158	1	Surface	Mercury	mg/kg	1.05E+01	1.43E-05	4.08E-05	9.24E-05

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
158	1	Surface	Nickel	mg/kg	7.28E+01	9.98E-05	2.27E-04	2.14E-08
158	1	Surface	Thallium	mg/kg	3.12E-01	4.27E-07	1.22E-06	9.19E-11
158	1	Surface	Total PAH	mg/kg	3.69E-01	5.05E-07	3.75E-06	8.07E-09
158	1	Surface	Uranium	mg/kg	2.03E+01	2.78E-05	7.93E-05	5.98E-09
158	1	Surface	Uranium-235	pCi/g	1.63E-01	2.23E-07		4.80E-11
158	1	Surface	Uranium-238	pCi/g	3.79E+00	5.19E-06		1.12E-09
160	1	Surface	Antimony	mg/kg	6.80E-01	9.32E-07	2.65E-06	2.00E-10
160	1	Surface	Total PAH	mg/kg	5.29E-02	7.25E-08	5.37E-07	1.16E-09
163	1	Surface	Chromium	mg/kg	4.94E+01	6.77E-05	1.93E-04	1.46E-08
163	1	Surface	Total PAH	mg/kg	1.63E-01	2.23E-07	1.65E-06	3.56E-09
165	1	Surface	Antimony	mg/kg	2.20E+00	3.01E-06	8.59E-06	6.48E-10
165	1	Surface	Arsenic	mg/kg	6.35E+01	8.70E-05	1.49E-04	1.87E-08
165	1	Surface	Barium	mg/kg	5.84E+02	8.00E-04	2.28E-03	1.72E-07
165	1	Surface	Beryllium	mg/kg	6.82E-01	9.34E-07	3.73E-07	2.01E-10
165	1	Surface	Cesium-137	pCi/g	3.47E+00	4.75E-06		1.02E-09
165	1	Surface	Chromium	mg/kg	3.74E+01	5.12E-05	1.46E-04	1.10E-08
165	1	Surface	Mercury	mg/kg	3.78E-01	5.18E-07	1.48E-06	3.34E-06
165	1	Surface	Naphthalene	mg/kg	1.61E+00	2.21E-06	3.14E-05	1.59E-05
165	1	Surface	Neptunium-237	pCi/g	4.26E-01	5.84E-07		1.25E-10
165	1	Surface	Nickel	mg/kg	3.47E+01	4.75E-05	1.08E-04	1.02E-08
165	1	Surface	PCB, Total	mg/kg	8.27E+00	1.13E-05	9.04E-05	4.13E-06
165	1	Surface	Plutonium-239/240	pCi/g	2.81E+00	3.84E-06		8.26E-10
165	1	Surface	Silver	mg/kg	3.09E+01	4.24E-05	9.66E-05	9.11E-09
165	1	Surface	Thorium-230	pCi/g	6.02E+00	8.24E-06		1.77E-09
165	1	Surface	Total PAH	mg/kg	1.87E+00	2.56E-06	1.90E-05	4.08E-08
165	1	Surface	Uranium	mg/kg	1.08E+02	1.47E-04	4.20E-04	3.17E-08
165	1	Surface	Uranium-234	pCi/g	5.76E+01	7.88E-05		1.69E-08
165	1	Surface	Uranium-235	pCi/g	2.05E+00	2.80E-06		6.02E-10
165	1	Surface	Uranium-238	pCi/g	6.41E+01	8.78E-05		1.89E-08
169	1	Surface	Aluminum	mg/kg	1.42E+04	1.95E-02	5.54E-02	4.18E-06
169	1	Surface	Antimony	mg/kg	1.30E+00	1.78E-06	5.08E-06	3.83E-10
169	1	Surface	Arsenic	mg/kg	2.03E+01	2.78E-05	4.76E-05	5.98E-09
169	1	Surface	Beryllium	mg/kg	8.00E-01	1.10E-06	4.37E-07	2.36E-10
169	1	Surface	Chromium	mg/kg	2.15E+02	2.94E-04	8.39E-04	6.33E-08
169	1	Surface	Copper	mg/kg	3.74E+02	5.13E-04	1.46E-03	1.10E-07
169	1	Surface	Iron	mg/kg	4.16E+04	5.69E-02	1.62E-01	1.22E-05
169	1	Surface	Mercury	mg/kg	7.87E+00	1.08E-05	3.07E-05	6.95E-05
169	1	Surface	Nickel	mg/kg	5.49E+02	7.52E-04	1.71E-03	1.62E-07
169	1	Surface	PCB, Total	mg/kg	1.00E+01	1.37E-05	1.09E-04	5.00E-06
169	1	Surface	Thallium	mg/kg	4.60E-01	6.30E-07	1.80E-06	1.35E-10
169	1	Surface	Total PAH	mg/kg	4.59E+00	6.28E-06	4.66E-05	1.00E-07
169	1	Surface	Uranium	mg/kg	5.03E+01	6.89E-05	1.96E-04	1.48E-08
169	1	Surface	Uranium-234	pCi/g	6.55E+00	8.97E-06		1.93E-09
169	1	Surface	Uranium-235	pCi/g	4.60E-01	6.30E-07		1.35E-10
169	1	Surface	Uranium-238	pCi/g	8.12E+00	1.11E-05		2.39E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
170	1	Surface	Neptunium-237	pCi/g	1.15E-01	1.58E-07		3.39E-11
170	1	Surface	Uranium-238	pCi/g	1.53E+00	2.10E-06		4.51E-10
176	1	Surface	Arsenic	mg/kg	4.86E+01	6.65E-05	1.14E-04	1.43E-08
176	1	Surface	Chromium	mg/kg	4.27E+01	5.85E-05	1.67E-04	1.26E-08
176	1	Surface	Nickel	mg/kg	1.07E+02	1.47E-04	3.35E-04	3.16E-08
176	1	Surface	Uranium	mg/kg	2.21E+01	3.03E-05	8.62E-05	6.50E-09
180	1	Surface	Antimony	mg/kg	5.80E-01	7.95E-07	2.26E-06	1.71E-10
180	1	Surface	Arsenic	mg/kg	7.48E+01	1.02E-04	1.75E-04	2.20E-08
180	1	Surface	Chromium	mg/kg	5.54E+01	7.59E-05	2.16E-04	1.63E-08
180	1	Surface	Mercury	mg/kg	8.28E+00	1.13E-05	3.23E-05	7.32E-05
180	1	Surface	Nickel	mg/kg	8.77E+01	1.20E-04	2.74E-04	2.58E-08
180	2	Surface	Antimony	mg/kg	4.58E-01	6.27E-07	1.79E-06	1.35E-10
180	2	Surface	Arsenic	mg/kg	1.27E+01	1.73E-05	2.96E-05	3.73E-09
180	2	Surface	Chromium	mg/kg	4.46E+01	6.11E-05	1.74E-04	1.31E-08
180	2	Surface	Nickel	mg/kg	8.42E+01	1.15E-04	2.63E-04	2.48E-08
180	2	Surface	Total PAH	mg/kg	9.19E-02	1.26E-07	9.32E-07	2.01E-09
180	3	Surface	Arsenic	mg/kg	1.34E+01	1.83E-05	3.13E-05	3.93E-09
180	3	Surface	Chromium	mg/kg	4.69E+01	6.43E-05	1.83E-04	1.38E-08
180	3	Surface	Nickel	mg/kg	6.77E+01	9.28E-05	2.11E-04	1.99E-08
180	3	Surface	Silver	mg/kg	1.14E+01	1.56E-05	3.56E-05	3.36E-09
180	4	Surface	Arsenic	mg/kg	1.15E+01	1.58E-05	2.70E-05	3.40E-09
180	4	Surface	Barium	mg/kg	2.13E+02	2.92E-04	8.32E-04	6.27E-08
180	4	Surface	Beryllium	mg/kg	1.60E+00	2.19E-06	8.75E-07	4.71E-10
180	4	Surface	Chromium	mg/kg	6.00E+01	8.22E-05	2.34E-04	1.77E-08
180	4	Surface	Iron	mg/kg	1.54E+04	2.11E-02	6.00E-02	4.53E-06
180	4	Surface	Manganese	mg/kg	7.09E+02	9.71E-04	2.21E-03	2.09E-07
180	4	Surface	Nickel	mg/kg	6.46E+01	8.85E-05	2.02E-04	1.90E-08
180	4	Surface	Silver	mg/kg	9.68E+00	1.33E-05	3.02E-05	2.85E-09
180	4	Surface	Total PAH	mg/kg	2.15E-02	2.95E-08	2.18E-07	4.70E-10
180	4	Surface	Vanadium	mg/kg	4.85E+01	6.64E-05	9.85E-05	1.43E-08
181	1	Surface	Chromium	mg/kg	2.29E+01	3.13E-05	8.92E-05	6.73E-09
181	1	Surface	Thallium	mg/kg	3.50E+00	4.79E-06	1.37E-05	1.03E-09
181	1	Surface	Total PAH	mg/kg	3.43E-02	4.70E-08	3.48E-07	7.50E-10
194	1	Surface	Antimony	mg/kg	1.50E+00	2.05E-06	5.86E-06	4.42E-10
194	1	Surface	Chromium	mg/kg	3.87E+01	5.30E-05	1.51E-04	1.14E-08
194	1	Surface	Mercury	mg/kg	6.71E+00	9.19E-06	2.62E-05	5.93E-05
194	1	Surface	Nickel	mg/kg	5.84E+01	8.00E-05	1.82E-04	1.72E-08
194	1	Surface	Silver	mg/kg	1.09E+01	1.50E-05	3.41E-05	3.22E-09
194	2	Surface	Chromium	mg/kg	5.96E+01	8.16E-05	2.33E-04	1.76E-08
194	2	Surface	Silver	mg/kg	1.31E+01	1.80E-05	4.10E-05	3.87E-09
194	2	Surface	Uranium	mg/kg	2.28E+01	3.12E-05	8.89E-05	6.71E-09
194	2	Surface	Uranium-238	pCi/g	1.42E+00	1.95E-06		4.18E-10
194	3	Surface	Antimony	mg/kg	6.90E-01	9.45E-07	2.69E-06	2.03E-10
194	3	Surface	Arsenic	mg/kg	1.46E+01	2.01E-05	3.43E-05	4.31E-09
194	3	Surface	Chromium	mg/kg	3.90E+01	5.34E-05	1.52E-04	1.15E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	3	Surface	Nickel	mg/kg	6.40E+01	8.77E-05	2.00E-04	1.89E-08
194	3	Surface	Total PAH	mg/kg	3.93E-02	5.38E-08	3.99E-07	8.59E-10
194	3	Surface	Uranium-238	pCi/g	1.28E+00	1.76E-06		3.78E-10
194	4	Surface	Chromium	mg/kg	4.84E+01	6.63E-05	1.89E-04	1.43E-08
194	4	Surface	Mercury	mg/kg	8.92E+00	1.22E-05	3.48E-05	7.88E-05
194	4	Surface	Nickel	mg/kg	6.91E+01	9.46E-05	2.16E-04	2.03E-08
194	4	Surface	Silver	mg/kg	1.18E+01	1.61E-05	3.68E-05	3.47E-09
194	4	Surface	Total PAH	mg/kg	7.30E-02	9.99E-08	7.41E-07	1.59E-09
194	4	Surface	Uranium-238	pCi/g	1.73E+00	2.37E-06		5.09E-10
194	5	Surface	Chromium	mg/kg	4.58E+01	6.27E-05	1.79E-04	1.35E-08
194	5	Surface	Mercury	mg/kg	8.69E+00	1.19E-05	3.39E-05	7.68E-05
194	5	Surface	Nickel	mg/kg	7.54E+01	1.03E-04	2.36E-04	2.22E-08
194	5	Surface	Silver	mg/kg	1.25E+01	1.71E-05	3.89E-05	3.67E-09
194	5	Surface	Total PAH	mg/kg	2.37E-02	3.25E-08	2.41E-07	5.18E-10
194	5	Surface	Uranium-238	pCi/g	1.38E+00	1.89E-06		4.06E-10
194	6	Surface	Chromium	mg/kg	3.70E+01	5.07E-05	1.44E-04	1.09E-08
194	6	Surface	Manganese	mg/kg	1.08E+03	1.48E-03	3.37E-03	3.18E-07
194	6	Surface	Nickel	mg/kg	8.06E+01	1.10E-04	2.52E-04	2.37E-08
194	6	Surface	Silver	mg/kg	9.89E+00	1.35E-05	3.09E-05	2.91E-09
194	6	Surface	Uranium-238	pCi/g	1.32E+00	1.81E-06		3.89E-10
194	7	Surface	Chromium	mg/kg	5.32E+01	7.29E-05	2.08E-04	1.57E-08
194	7	Surface	Nickel	mg/kg	7.71E+01	1.06E-04	2.41E-04	2.27E-08
194	7	Surface	Silver	mg/kg	1.25E+01	1.71E-05	3.90E-05	3.68E-09
194	8	Surface	Chromium	mg/kg	5.36E+01	7.34E-05	2.09E-04	1.58E-08
194	8	Surface	Manganese	mg/kg	8.00E+02	1.10E-03	2.50E-03	2.36E-07
194	8	Surface	Total PAH	mg/kg	4.85E-01	6.64E-07	4.92E-06	1.06E-08
194	8	Surface	Uranium-238	pCi/g	1.39E+00	1.90E-06		4.09E-10
194	9	Surface	Arsenic	mg/kg	1.14E+01	1.56E-05	2.68E-05	3.36E-09
194	9	Surface	Chromium	mg/kg	5.17E+01	7.08E-05	2.02E-04	1.52E-08
194	10	Surface	Arsenic	mg/kg	1.22E+01	1.67E-05	2.85E-05	3.58E-09
194	10	Surface	Cesium-137	pCi/g	5.81E-01	7.96E-07		1.71E-10
194	10	Surface	Chromium	mg/kg	3.63E+01	4.97E-05	1.42E-04	1.07E-08
194	10	Surface	Nickel	mg/kg	7.60E+01	1.04E-04	2.37E-04	2.24E-08
194	10	Surface	Total PAH	mg/kg	2.57E-01	3.52E-07	2.61E-06	5.62E-09
194	10	Surface	Uranium-238	pCi/g	1.49E+00	2.04E-06		4.39E-10
194	11	Surface	Chromium	mg/kg	3.27E+01	4.48E-05	1.28E-04	9.62E-09
194	11	Surface	Mercury	mg/kg	8.09E+00	1.11E-05	3.16E-05	7.15E-05
194	11	Surface	Nickel	mg/kg	1.01E+02	1.38E-04	3.14E-04	2.96E-08
194	11	Surface	PCB, Total	mg/kg	8.40E-02	1.15E-07	9.18E-07	4.20E-08
194	11	Surface	Silver	mg/kg	1.33E+01	1.82E-05	4.15E-05	3.91E-09
194	11	Surface	Total PAH	mg/kg	7.95E-02	1.09E-07	8.07E-07	1.74E-09
194	12	Surface	Chromium	mg/kg	6.34E+01	8.68E-05	2.47E-04	1.87E-08
194	12	Surface	Nickel	mg/kg	7.86E+01	1.08E-04	2.45E-04	2.31E-08
194	12	Surface	Silver	mg/kg	1.20E+01	1.64E-05	3.74E-05	3.53E-09
194	12	Surface	Total PAH	mg/kg	8.91E-01	1.22E-06	9.05E-06	1.95E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	13	Surface	Chromium	mg/kg	4.77E+01	6.53E-05	1.86E-04	1.40E-08
194	13	Surface	Nickel	mg/kg	6.03E+01	8.26E-05	1.88E-04	1.78E-08
194	13	Surface	Total PAH	mg/kg	9.13E-02	1.25E-07	9.27E-07	2.00E-09
194	14	Surface	Chromium	mg/kg	5.21E+01	7.14E-05	2.03E-04	1.53E-08
194	14	Surface	Mercury	mg/kg	8.14E+00	1.12E-05	3.18E-05	7.19E-05
194	15	Surface	Chromium	mg/kg	5.33E+01	7.31E-05	2.08E-04	1.57E-08
194	15	Surface	Silver	mg/kg	1.03E+01	1.41E-05	3.22E-05	3.04E-09
194	16	Surface	Antimony	mg/kg	7.40E-01	1.01E-06	2.89E-06	2.18E-10
194	16	Surface	Arsenic	mg/kg	1.15E+01	1.58E-05	2.70E-05	3.39E-09
194	16	Surface	Beryllium	mg/kg	8.70E-01	1.19E-06	4.76E-07	2.56E-10
194	16	Surface	Chromium	mg/kg	5.32E+01	7.29E-05	2.08E-04	1.57E-08
194	16	Surface	Nickel	mg/kg	7.20E+01	9.87E-05	2.25E-04	2.12E-08
194	16	Surface	Thallium	mg/kg	6.30E-01	8.63E-07	2.46E-06	1.86E-10
194	16	Surface	Vanadium	mg/kg	4.11E+01	5.63E-05	8.34E-05	1.21E-08
194	17	Surface	Arsenic	mg/kg	1.16E+01	1.58E-05	2.71E-05	3.40E-09
194	17	Surface	Cadmium	mg/kg	1.10E+00	1.51E-06	8.59E-08	3.24E-10
194	17	Surface	Chromium	mg/kg	4.65E+01	6.37E-05	1.81E-04	1.37E-08
194	17	Surface	Total PAH	mg/kg	1.59E-01	2.17E-07	1.61E-06	3.47E-09
194	18	Surface	Arsenic	mg/kg	1.06E+01	1.45E-05	2.48E-05	3.11E-09
194	18	Surface	Beryllium	mg/kg	7.40E-01	1.01E-06	4.04E-07	2.18E-10
194	18	Surface	Chromium	mg/kg	6.85E+01	9.38E-05	2.67E-04	2.02E-08
194	18	Surface	Nickel	mg/kg	5.78E+01	7.92E-05	1.80E-04	1.70E-08
194	19	Surface	Arsenic	mg/kg	1.07E+01	1.46E-05	2.50E-05	3.15E-09
194	19	Surface	Chromium	mg/kg	4.84E+01	6.62E-05	1.89E-04	1.42E-08
194	19	Surface	Nickel	mg/kg	5.84E+01	8.00E-05	1.82E-04	1.72E-08
194	20	Surface	Arsenic	mg/kg	1.18E+01	1.62E-05	2.77E-05	3.49E-09
194	20	Surface	Barium	mg/kg	3.26E+02	4.47E-04	1.27E-03	9.60E-08
194	20	Surface	Beryllium	mg/kg	1.10E+00	1.51E-06	6.01E-07	3.24E-10
194	20	Surface	Chromium	mg/kg	5.24E+01	7.17E-05	2.04E-04	1.54E-08
194	20	Surface	Cobalt	mg/kg	2.11E+01	2.89E-05	8.24E-05	6.21E-09
194	20	Surface	Manganese	mg/kg	2.29E+03	3.14E-03	7.16E-03	6.76E-07
194	20	Surface	Mercury	mg/kg	7.28E+00	9.97E-06	2.84E-05	6.43E-05
194	20	Surface	Nickel	mg/kg	6.57E+01	9.00E-05	2.05E-04	1.93E-08
194	20	Surface	Silver	mg/kg	1.22E+01	1.67E-05	3.82E-05	3.60E-09
194	20	Surface	Total PAH	mg/kg	3.10E-02	4.25E-08	3.15E-07	6.78E-10
194	20	Surface	Vanadium	mg/kg	3.81E+01	5.22E-05	7.73E-05	1.12E-08
194	21	Surface	Antimony	mg/kg	9.30E-01	1.27E-06	3.63E-06	2.74E-10
194	21	Surface	Chromium	mg/kg	5.51E+01	7.55E-05	2.15E-04	1.62E-08
194	21	Surface	Mercury	mg/kg	6.62E+00	9.07E-06	2.58E-05	5.85E-05
194	21	Surface	Nickel	mg/kg	7.01E+01	9.61E-05	2.19E-04	2.06E-08
194	21	Surface	Thallium	mg/kg	6.40E-01	8.77E-07	2.50E-06	1.88E-10
194	22	Surface	Chromium	mg/kg	4.90E+01	6.71E-05	1.91E-04	1.44E-08
194	22	Surface	Manganese	mg/kg	8.19E+02	1.12E-03	2.56E-03	2.41E-07
194	22	Surface	PCB, Total	mg/kg	1.09E+01	1.50E-05	1.19E-04	5.46E-06
194	23	Surface	Arsenic	mg/kg	1.16E+01	1.58E-05	2.71E-05	3.40E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	23	Surface	Chromium	mg/kg	6.60E+01	9.04E-05	2.58E-04	1.94E-08
194	23	Surface	Iron	mg/kg	1.83E+04	2.50E-02	7.14E-02	5.38E-06
194	23	Surface	Nickel	mg/kg	8.77E+01	1.20E-04	2.74E-04	2.58E-08
194	23	Surface	Silver	mg/kg	1.15E+01	1.57E-05	3.59E-05	3.38E-09
194	24	Surface	Chromium	mg/kg	5.02E+01	6.88E-05	1.96E-04	1.48E-08
194	24	Surface	Nickel	mg/kg	7.08E+01	9.69E-05	2.21E-04	2.08E-08
194	24	Surface	Total PAH	mg/kg	2.28E-02	3.12E-08	2.31E-07	4.98E-10
194	25	Surface	Barium	mg/kg	3.00E+02	4.11E-04	1.17E-03	8.83E-08
194	25	Surface	Chromium	mg/kg	6.13E+01	8.39E-05	2.39E-04	1.80E-08
194	25	Surface	Manganese	mg/kg	9.96E+02	1.36E-03	3.11E-03	2.93E-07
194	25	Surface	Nickel	mg/kg	6.33E+01	8.67E-05	1.98E-04	1.86E-08
194	25	Surface	Total PAH	mg/kg	2.06E-02	2.82E-08	2.09E-07	4.50E-10
194	26	Surface	Beryllium	mg/kg	7.00E-01	9.59E-07	3.83E-07	2.06E-10
194	26	Surface	Chromium	mg/kg	4.18E+01	5.73E-05	1.63E-04	1.23E-08
194	26	Surface	Silver	mg/kg	1.03E+01	1.41E-05	3.21E-05	3.02E-09
194	26	Surface	Thallium	mg/kg	3.90E-01	5.34E-07	1.52E-06	1.15E-10
194	27	Surface	Chromium	mg/kg	5.22E+01	7.15E-05	2.04E-04	1.54E-08
194	27	Surface	Nickel	mg/kg	6.55E+01	8.97E-05	2.05E-04	1.93E-08
194	27	Surface	Silver	mg/kg	1.01E+01	1.39E-05	3.16E-05	2.98E-09
194	28	Surface	Arsenic	mg/kg	1.20E+01	1.65E-05	2.82E-05	3.54E-09
194	28	Surface	Beryllium	mg/kg	7.10E-01	9.73E-07	3.88E-07	2.09E-10
194	28	Surface	Chromium	mg/kg	6.07E+01	8.32E-05	2.37E-04	1.79E-08
194	28	Surface	Manganese	mg/kg	1.14E+03	1.56E-03	3.55E-03	3.35E-07
194	28	Surface	Nickel	mg/kg	6.95E+01	9.51E-05	2.17E-04	2.05E-08
194	28	Surface	Silver	mg/kg	1.08E+01	1.48E-05	3.37E-05	3.18E-09
194	28	Surface	Vanadium	mg/kg	4.06E+01	5.56E-05	8.24E-05	1.20E-08
194	29	Surface	Antimony	mg/kg	7.10E-01	9.73E-07	2.77E-06	2.09E-10
194	29	Surface	Chromium	mg/kg	5.06E+01	6.93E-05	1.97E-04	1.49E-08
194	29	Surface	Nickel	mg/kg	6.51E+01	8.92E-05	2.03E-04	1.92E-08
194	29	Surface	Silver	mg/kg	9.77E+00	1.34E-05	3.05E-05	2.88E-09
194	30	Surface	Chromium	mg/kg	5.66E+01	7.75E-05	2.21E-04	1.67E-08
194	30	Surface	Mercury	mg/kg	8.80E+00	1.21E-05	3.44E-05	7.77E-05
194	30	Surface	Nickel	mg/kg	6.99E+01	9.57E-05	2.18E-04	2.06E-08
194	30	Surface	Silver	mg/kg	9.76E+00	1.34E-05	3.05E-05	2.87E-09
194	31	Surface	Cesium-137	pCi/g	5.70E-01	7.81E-07		1.68E-10
194	31	Surface	Uranium-238	pCi/g	1.72E+00	2.36E-06		5.06E-10
195	1	Surface	Chromium	mg/kg	6.33E+01	8.67E-05	2.47E-04	1.86E-08
195	1	Surface	Nickel	mg/kg	7.02E+01	9.62E-05	2.19E-04	2.07E-08
195	1	Surface	Silver	mg/kg	9.37E+00	1.28E-05	2.93E-05	2.76E-09
195	2	Surface	Chromium	mg/kg	4.52E+01	6.19E-05	1.76E-04	1.33E-08
195	2	Surface	Silver	mg/kg	9.48E+00	1.30E-05	2.96E-05	2.79E-09
195	2	Surface	Total PAH	mg/kg	2.68E-02	3.67E-08	2.72E-07	5.86E-10
195	3	Surface	Chromium	mg/kg	5.03E+01	6.89E-05	1.96E-04	1.48E-08
195	3	Surface	Nickel	mg/kg	5.22E+01	7.14E-05	1.63E-04	1.54E-08
195	3	Surface	Total PAH	mg/kg	4.06E-02	5.56E-08	4.12E-07	8.87E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
195	4	Surface	Chromium	mg/kg	5.29E+01	7.25E-05	2.07E-04	1.56E-08
195	4	Surface	Nickel	mg/kg	6.23E+01	8.53E-05	1.95E-04	1.83E-08
195	5	Surface	Chromium	mg/kg	5.74E+01	7.86E-05	2.24E-04	1.69E-08
195	5	Surface	Nickel	mg/kg	8.11E+01	1.11E-04	2.53E-04	2.39E-08
195	5	Surface	Total PAH	mg/kg	2.40E-02	3.29E-08	2.44E-07	5.25E-10
195	6	Surface	Chromium	mg/kg	4.45E+01	6.10E-05	1.74E-04	1.31E-08
195	6	Surface	Nickel	mg/kg	8.71E+01	1.19E-04	2.72E-04	2.57E-08
195	6	Surface	Total PAH	mg/kg	2.48E-01	3.39E-07	2.51E-06	5.41E-09
195	7	Surface	Chromium	mg/kg	4.93E+01	6.75E-05	1.92E-04	1.45E-08
195	7	Surface	Silver	mg/kg	8.06E+00	1.10E-05	2.52E-05	2.37E-09
195	8	Surface	Arsenic	mg/kg	1.16E+01	1.58E-05	2.71E-05	3.40E-09
195	8	Surface	Beryllium	mg/kg	7.40E-01	1.01E-06	4.04E-07	2.18E-10
195	8	Surface	Chromium	mg/kg	6.79E+01	9.31E-05	2.65E-04	2.00E-08
195	8	Surface	Cobalt	mg/kg	1.82E+01	2.49E-05	7.11E-05	5.36E-09
195	8	Surface	Nickel	mg/kg	7.01E+01	9.60E-05	2.19E-04	2.06E-08
195	8	Surface	Total PAH	mg/kg	2.16E-01	2.95E-07	2.19E-06	4.71E-09
195	8	Surface	Vanadium	mg/kg	4.04E+01	5.53E-05	8.20E-05	1.19E-08
195	9	Surface	Chromium	mg/kg	6.08E+01	8.33E-05	2.37E-04	1.79E-08
195	9	Surface	Nickel	mg/kg	7.93E+01	1.09E-04	2.48E-04	2.33E-08
195	10	Surface	Chromium	mg/kg	4.51E+01	6.17E-05	1.76E-04	1.33E-08
195	10	Surface	Nickel	mg/kg	7.40E+01	1.01E-04	2.31E-04	2.18E-08
195	10	Surface	Silver	mg/kg	1.31E+01	1.80E-05	4.09E-05	3.86E-09
195	11	Surface	Aluminum	mg/kg	2.81E+04	3.85E-02	1.10E-01	8.27E-06
195	11	Surface	Arsenic	mg/kg	1.35E+01	1.84E-05	3.15E-05	3.96E-09
195	11	Surface	Barium	mg/kg	4.53E+02	6.21E-04	1.77E-03	1.33E-07
195	11	Surface	Chromium	mg/kg	5.05E+01	6.92E-05	1.97E-04	1.49E-08
195	11	Surface	Cobalt	mg/kg	2.77E+01	3.79E-05	1.08E-04	8.16E-09
195	11	Surface	Iron	mg/kg	1.97E+04	2.70E-02	7.69E-02	5.80E-06
195	11	Surface	Nickel	mg/kg	6.77E+01	9.27E-05	2.11E-04	1.99E-08
195	11	Surface	Thallium	mg/kg	6.60E-01	9.04E-07	2.58E-06	1.94E-10
195	11	Surface	Vanadium	mg/kg	7.97E+01	1.09E-04	1.62E-04	2.35E-08
195	12	Surface	Beryllium	mg/kg	7.50E-01	1.03E-06	4.10E-07	2.21E-10
195	12	Surface	Chromium	mg/kg	7.04E+01	9.64E-05	2.75E-04	2.07E-08
195	12	Surface	Nickel	mg/kg	6.78E+01	9.28E-05	2.12E-04	2.00E-08
195	13	Surface	Chromium	mg/kg	6.55E+01	8.97E-05	2.56E-04	1.93E-08
195	13	Surface	Nickel	mg/kg	6.91E+01	9.46E-05	2.16E-04	2.03E-08
195	14	Surface	Chromium	mg/kg	5.94E+01	8.14E-05	2.32E-04	1.75E-08
195	14	Surface	Nickel	mg/kg	7.04E+01	9.64E-05	2.20E-04	2.07E-08
195	15	Surface	Chromium	mg/kg	4.82E+01	6.60E-05	1.88E-04	1.42E-08
195	16	Surface	Chromium	mg/kg	4.45E+01	6.09E-05	1.74E-04	1.31E-08
195	16	Surface	Nickel	mg/kg	8.16E+01	1.12E-04	2.55E-04	2.40E-08
195	17	Surface	Chromium	mg/kg	8.22E+01	1.13E-04	3.21E-04	2.42E-08
195	17	Surface	Mercury	mg/kg	4.17E-01	5.71E-07	1.63E-06	3.68E-06
195	17	Surface	Nickel	mg/kg	5.93E+01	8.13E-05	1.85E-04	1.75E-08
195	17	Surface	PCB, Total	mg/kg	7.40E-01	1.01E-06	8.09E-06	3.70E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
195	17	Surface	Silver	mg/kg	1.01E+01	1.39E-05	3.17E-05	2.99E-09
195	17	Surface	Thallium	mg/kg	5.40E-01	7.40E-07	2.11E-06	1.59E-10
195	17	Surface	Total PAH	mg/kg	3.16E-01	4.33E-07	3.21E-06	6.91E-09
195	17	Surface	Uranium-235	pCi/g	1.32E-01	1.81E-07		3.89E-11
195	17	Surface	Uranium-238	pCi/g	2.48E+00	3.40E-06		7.30E-10
196	1	Surface	Antimony	mg/kg	5.90E-01	8.08E-07	2.30E-06	1.74E-10
196	1	Surface	Chromium	mg/kg	1.96E+01	2.68E-05	7.65E-05	5.77E-09
196	1	Surface	Neptunium-237	pCi/g	3.11E-01	4.26E-07		9.16E-11
196	1	Surface	Nickel	mg/kg	5.56E+02	7.62E-04	1.74E-03	1.64E-07
196	1	Surface	Uranium	mg/kg	2.33E+01	3.19E-05	9.10E-05	6.86E-09
196	1	Surface	Uranium-238	pCi/g	1.54E+00	2.11E-06		4.53E-10
196	2	Surface	Barium	mg/kg	2.02E+02	2.77E-04	7.89E-04	5.95E-08
196	2	Surface	Cadmium	mg/kg	2.53E+00	3.47E-06	1.98E-07	7.45E-10
196	2	Surface	Chromium	mg/kg	2.07E+01	2.84E-05	8.08E-05	6.10E-09
196	2	Surface	Nickel	mg/kg	7.36E+01	1.01E-04	2.30E-04	2.17E-08
196	2	Surface	PCB, Total	mg/kg	1.51E+00	2.07E-06	1.65E-05	7.55E-07
196	2	Surface	Total PAH	mg/kg	6.80E-01	9.32E-07	6.90E-06	1.49E-08
196	2	Surface	Uranium-238	pCi/g	2.21E+00	3.03E-06		6.51E-10
200	1	Surface	Antimony	mg/kg	5.60E-01	7.67E-07	2.19E-06	1.65E-10
200	1	Surface	Cesium-137	pCi/g	5.74E-01	7.86E-07		1.69E-10
200	1	Surface	Chromium	mg/kg	5.75E+01	7.88E-05	2.25E-04	1.69E-08
200	1	Surface	Mercury	mg/kg	6.71E+00	9.19E-06	2.62E-05	5.93E-05
200	1	Surface	Nickel	mg/kg	1.28E+02	1.75E-04	4.00E-04	3.77E-08
200	1	Surface	PCB, Total	mg/kg	2.60E+00	3.56E-06	2.84E-05	1.30E-06
200	1	Surface	Total PAH	mg/kg	2.84E-02	3.89E-08	2.88E-07	6.21E-10
200	1	Surface	Uranium	mg/kg	2.73E+01	3.74E-05	1.07E-04	8.04E-09
200	1	Surface	Uranium-235	pCi/g	1.43E-01	1.96E-07		4.21E-11
200	1	Surface	Uranium-238	pCi/g	3.58E+00	4.90E-06		1.05E-09
204	1	Surface	Aluminum	mg/kg	1.48E+04	2.03E-02	5.78E-02	4.36E-06
204	1	Surface	Beryllium	mg/kg	1.36E+00	1.86E-06	7.43E-07	4.00E-10
204	1	Surface	Cadmium	mg/kg	2.73E+00	3.74E-06	2.13E-07	8.04E-10
204	1	Surface	Chromium	mg/kg	7.40E+01	1.01E-04	2.89E-04	2.18E-08
204	1	Surface	Iron	mg/kg	4.19E+04	5.74E-02	1.64E-01	1.23E-05
204	1	Surface	PCB, Total	mg/kg	2.53E+00	3.47E-06	2.77E-05	1.27E-06
204	1	Surface	Uranium-235	pCi/g	1.80E-01	2.47E-07		5.30E-11
204	1	Surface	Uranium-238	pCi/g	5.20E+00	7.12E-06		1.53E-09
204	1	Surface	Vanadium	mg/kg	7.55E+01	1.03E-04	1.53E-04	2.22E-08
204	2	Surface	Aluminum	mg/kg	1.37E+04	1.88E-02	5.35E-02	4.03E-06
204	2	Surface	Chromium	mg/kg	1.80E+01	2.47E-05	7.03E-05	5.30E-09
204	2	Surface	PCB, Total	mg/kg	1.70E-01	2.33E-07	1.86E-06	8.50E-08
204	3	Surface	Chromium	mg/kg	2.06E+01	2.82E-05	8.04E-05	6.07E-09
204	3	Surface	Uranium-238	pCi/g	2.50E+00	3.42E-06		7.36E-10
204	4	Surface	Antimony	mg/kg	1.10E+00	1.51E-06	4.29E-06	3.24E-10
204	4	Surface	Chromium	mg/kg	2.89E+01	3.96E-05	1.13E-04	8.51E-09
204	4	Surface	Uranium-235	pCi/g	1.88E-01	2.57E-07		5.53E-11

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
204	4	Surface	Uranium-238	pCi/g	9.72E+00	1.33E-05		2.86E-09
204	18	Surface	Cesium-137	pCi/g	6.30E-01	8.63E-07		1.86E-10
204	18	Surface	Uranium	mg/kg	1.60E+01	2.19E-05	6.25E-05	4.71E-09
204	18	Surface	Uranium-235	pCi/g	1.25E-01	1.71E-07		3.68E-11
204	18	Surface	Uranium-238	pCi/g	5.37E+00	7.36E-06		1.58E-09
204	23	Surface	Americium-241	pCi/g	3.71E+00	5.08E-06		1.09E-09
204	23	Surface	Beryllium	mg/kg	1.33E+00	1.82E-06	7.27E-07	3.92E-10
204	23	Surface	Cesium-137	pCi/g	1.17E+00	1.61E-06		3.45E-10
204	23	Surface	Chromium	mg/kg	1.75E+02	2.40E-04	6.83E-04	5.15E-08
204	23	Surface	Cobalt-60	pCi/g	1.23E-02	1.68E-08		3.61E-12
204	23	Surface	PCB, Total	mg/kg	7.90E+01	1.08E-04	8.64E-04	3.95E-05
204	23	Surface	Uranium	mg/kg	1.31E+04	1.79E-02	5.10E-02	3.85E-06
204	23	Surface	Uranium-234	pCi/g	4.45E+02	6.10E-04		1.31E-07
204	23	Surface	Uranium-235	pCi/g	5.70E+01	7.81E-05		1.68E-08
204	23	Surface	Uranium-238	pCi/g	4.39E+03	6.01E-03		1.29E-06
211	1	Surface	Chromium	mg/kg	4.48E+01	6.13E-05	1.75E-04	1.32E-08
211	1	Surface	Neptunium-237	pCi/g	1.46E-01	2.00E-07		4.30E-11
211	1	Surface	PCB, Total	mg/kg	3.60E-01	4.93E-07	3.94E-06	1.80E-07
211	1	Surface	Total PAH	mg/kg	1.04E-01	1.42E-07	1.05E-06	2.27E-09
211	1	Surface	Uranium	mg/kg	2.19E+01	2.99E-05	8.53E-05	6.44E-09
211	1	Surface	Uranium-235	pCi/g	2.12E-01	2.90E-07		6.24E-11
211	1	Surface	Uranium-238	pCi/g	5.84E+00	8.00E-06		1.72E-09
212	1	Surface	Arsenic	mg/kg	1.44E+01	1.98E-05	3.38E-05	4.25E-09
212	1	Surface	Beryllium	mg/kg	8.10E-01	1.11E-06	4.43E-07	2.39E-10
212	1	Surface	Cesium-137	pCi/g	6.01E-01	8.23E-07		1.77E-10
212	1	Surface	Chromium	mg/kg	3.58E+01	4.90E-05	1.40E-04	1.05E-08
212	1	Surface	Cobalt-60	pCi/g	8.76E-03	1.20E-08		2.58E-12
212	1	Surface	Iron	mg/kg	4.14E+04	5.67E-02	1.62E-01	1.22E-05
212	1	Surface	Neptunium-237	pCi/g	4.00E+00	5.48E-06		1.18E-09
212	1	Surface	Nickel	mg/kg	8.69E+01	1.19E-04	2.71E-04	2.56E-08
212	1	Surface	PCB, Total	mg/kg	1.80E-01	2.47E-07	1.97E-06	9.00E-08
212	1	Surface	Plutonium-239/240	pCi/g	6.71E+00	9.19E-06		1.98E-09
212	1	Surface	Thorium-230	pCi/g	2.60E+02	3.56E-04		7.66E-08
212	1	Surface	Uranium	mg/kg	2.30E+01	3.15E-05	8.98E-05	6.77E-09
212	1	Surface	Uranium-235	pCi/g	2.09E-01	2.86E-07		6.15E-11
212	1	Surface	Uranium-238	pCi/g	3.17E+00	4.34E-06		9.33E-10
213	1	Surface	Antimony	mg/kg	8.50E-01	1.16E-06	3.32E-06	2.50E-10
213	1	Surface	Chromium	mg/kg	4.78E+01	6.55E-05	1.87E-04	1.41E-08
213	1	Surface	Nickel	mg/kg	6.67E+01	9.14E-05	2.08E-04	1.97E-08
213	1	Surface	PCB, Total	mg/kg	7.30E-02	1.00E-07	7.98E-07	3.65E-08
213	1	Surface	Silver	mg/kg	1.32E+01	1.80E-05	4.11E-05	3.88E-09
213	1	Surface	Total PAH	mg/kg	1.72E-01	2.35E-07	1.74E-06	3.76E-09
213	1	Surface	Uranium-238	pCi/g	2.33E+00	3.19E-06		6.86E-10
213	2	Surface	Chromium	mg/kg	4.48E+01	6.14E-05	1.75E-04	1.32E-08
213	2	Surface	Nickel	mg/kg	9.10E+01	1.25E-04	2.84E-04	2.68E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
213	2	Surface	Silver	mg/kg	1.13E+01	1.54E-05	3.52E-05	3.32E-09
214	1	Surface	Antimony	mg/kg	5.70E-01	7.81E-07	2.23E-06	1.68E-10
215	1	Surface	Antimony	mg/kg	6.80E-01	9.32E-07	2.65E-06	2.00E-10
215	1	Surface	Chromium	mg/kg	5.73E+01	7.85E-05	2.24E-04	1.69E-08
215	1	Surface	Iron	mg/kg	3.87E+04	5.30E-02	1.51E-01	1.14E-05
215	1	Surface	Nickel	mg/kg	7.32E+01	1.00E-04	2.28E-04	2.15E-08
215	1	Surface	Total PAH	mg/kg	8.09E-02	1.11E-07	8.21E-07	1.77E-09
216	1	Surface	Chromium	mg/kg	2.38E+01	3.26E-05	9.29E-05	7.01E-09
216	1	Surface	Total PAH	mg/kg	1.49E-01	2.05E-07	1.52E-06	3.26E-09
216	1	Surface	Uranium-238	pCi/g	1.33E+00	1.82E-06		3.92E-10
217	1	Surface	Chromium	mg/kg	8.58E+01	1.17E-04	3.35E-04	2.53E-08
217	1	Surface	Cobalt	mg/kg	1.96E+01	2.68E-05	7.64E-05	5.76E-09
217	1	Surface	Manganese	mg/kg	7.70E+02	1.05E-03	2.40E-03	2.27E-07
217	1	Surface	Nickel	mg/kg	8.54E+01	1.17E-04	2.67E-04	2.52E-08
217	1	Surface	Silver	mg/kg	1.35E+01	1.84E-05	4.20E-05	3.96E-09
217	1	Surface	Uranium-238	pCi/g	1.15E+00	1.58E-06		3.40E-10
217	2	Surface	Antimony	mg/kg	1.70E+00	2.33E-06	6.64E-06	5.01E-10
217	2	Surface	Arsenic	mg/kg	1.12E+01	1.53E-05	2.61E-05	3.29E-09
217	2	Surface	Chromium	mg/kg	1.02E+02	1.39E-04	3.97E-04	2.99E-08
217	2	Surface	Cobalt	mg/kg	1.74E+01	2.38E-05	6.79E-05	5.12E-09
217	2	Surface	Iron	mg/kg	3.09E+04	4.24E-02	1.21E-01	9.11E-06
217	2	Surface	Manganese	mg/kg	8.44E+02	1.16E-03	2.63E-03	2.48E-07
217	2	Surface	Mercury	mg/kg	8.59E+00	1.18E-05	3.35E-05	7.59E-05
217	2	Surface	Nickel	mg/kg	9.74E+01	1.33E-04	3.04E-04	2.87E-08
217	2	Surface	Silver	mg/kg	1.61E+01	2.20E-05	5.03E-05	4.74E-09
217	2	Surface	Total PAH	mg/kg	5.05E-01	6.92E-07	5.13E-06	1.10E-08
219	1	Surface	Neptunium-237	pCi/g	3.31E-01	4.53E-07		9.75E-11
219	1	Surface	Nickel	mg/kg	6.71E+01	9.20E-05	2.10E-04	1.98E-08
219	1	Surface	Total PAH	mg/kg	7.50E-02	1.03E-07	7.62E-07	1.64E-09
219	1	Surface	Uranium-235	pCi/g	1.92E-01	2.63E-07		5.65E-11
219	1	Surface	Uranium-238	pCi/g	4.40E+00	6.03E-06		1.30E-09
221	1	Surface	Barium	mg/kg	2.21E+02	3.03E-04	8.63E-04	6.51E-08
221	1	Surface	Chromium	mg/kg	7.01E+01	9.61E-05	2.74E-04	2.06E-08
221	1	Surface	Iron	mg/kg	1.90E+04	2.60E-02	7.41E-02	5.59E-06
221	1	Surface	Nickel	mg/kg	7.93E+01	1.09E-04	2.48E-04	2.33E-08
221	1	Surface	PCB, Total	mg/kg	5.00E-01	6.85E-07	5.47E-06	2.50E-07
221	1	Surface	Total PAH	mg/kg	1.02E+00	1.40E-06	1.04E-05	2.24E-08
221	1	Surface	Uranium	mg/kg	1.64E+01	2.24E-05	6.38E-05	4.81E-09
221	1	Surface	Uranium-238	pCi/g	1.93E+00	2.64E-06		5.68E-10
222	1	Surface	Chromium	mg/kg	4.73E+01	6.48E-05	1.85E-04	1.39E-08
222	1	Surface	Nickel	mg/kg	9.19E+01	1.26E-04	2.87E-04	2.71E-08
222	1	Surface	PCB, Total	mg/kg	1.40E+00	1.92E-06	1.53E-05	7.00E-07
222	1	Surface	Total PAH	mg/kg	1.77E-01	2.43E-07	1.80E-06	3.87E-09
222	1	Surface	Uranium	mg/kg	2.80E+01	3.83E-05	1.09E-04	8.24E-09
222	1	Surface	Uranium-234	pCi/g	1.04E+01	1.42E-05		3.06E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
222	1	Surface	Uranium-235	pCi/g	7.10E-01	9.73E-07		2.09E-10
222	1	Surface	Uranium-238	pCi/g	1.96E+01	2.68E-05		5.77E-09
224	1	Surface	Chromium	mg/kg	4.49E+01	6.15E-05	1.75E-04	1.32E-08
224	1	Surface	PCB, Total	mg/kg	4.75E+02	6.51E-04	5.19E-03	2.38E-04
224	1	Surface	Total PAH	mg/kg	4.53E+01	6.20E-05	4.60E-04	9.90E-07
224	1	Surface	Uranium	mg/kg	4.15E+01	5.68E-05	1.62E-04	1.22E-08
224	1	Surface	Uranium-235	pCi/g	2.50E-01	3.42E-07		7.36E-11
224	1	Surface	Uranium-238	pCi/g	2.64E+01	3.62E-05		7.77E-09
225	1	Surface	Chromium	mg/kg	2.55E+01	3.49E-05	9.96E-05	7.51E-09
225	1	Surface	Total PAH	mg/kg	7.79E-02	1.07E-07	7.90E-07	1.70E-09
225	1	Surface	Uranium-238	pCi/g	2.04E+00	2.79E-06		6.01E-10
226	1	Surface	Americium-241	pCi/g	1.62E+00	2.22E-06		4.78E-10
226	1	Surface	Antimony	mg/kg	6.60E-01	9.04E-07	2.58E-06	1.94E-10
226	1	Surface	Cesium-137	pCi/g	2.65E+00	3.63E-06		7.80E-10
226	1	Surface	Chromium	mg/kg	4.25E+01	5.83E-05	1.66E-04	1.25E-08
226	1	Surface	Cobalt-60	pCi/g	3.14E-03	4.30E-09		9.25E-13
226	1	Surface	Manganese	mg/kg	6.30E+02	8.63E-04	1.97E-03	1.86E-07
226	1	Surface	Mercury	mg/kg	9.74E+00	1.33E-05	3.80E-05	8.60E-05
226	1	Surface	Neptunium-237	pCi/g	1.60E+02	2.19E-04		4.71E-08
226	1	Surface	Nickel	mg/kg	2.10E+02	2.87E-04	6.55E-04	6.17E-08
226	1	Surface	PCB, Total	mg/kg	1.49E+00	2.04E-06	1.63E-05	7.45E-07
226	1	Surface	Plutonium-238	pCi/g	2.13E+00	2.92E-06		6.28E-10
226	1	Surface	Plutonium-239/240	pCi/g	6.52E+00	8.93E-06		1.92E-09
226	1	Surface	Technetium-99	pCi/g	4.96E+01	6.80E-05		1.46E-08
226	1	Surface	Thorium-230	pCi/g	4.77E+01	6.54E-05		1.41E-08
226	1	Surface	Total PAH	mg/kg	9.19E-02	1.26E-07	9.33E-07	2.01E-09
226	1	Surface	Uranium	mg/kg	4.01E+02	5.49E-04	1.57E-03	1.18E-07
226	1	Surface	Uranium-234	pCi/g	2.29E+01	3.14E-05		6.75E-09
226	1	Surface	Uranium-235	pCi/g	1.10E+00	1.51E-06		3.25E-10
226	1	Surface	Uranium-238	pCi/g	2.40E+01	3.29E-05		7.07E-09
227	1	Surface	Beryllium	mg/kg	5.52E-01	7.56E-07	3.02E-07	1.63E-10
227	1	Surface	Cesium-137	pCi/g	1.90E-01	2.60E-07		5.60E-11
227	1	Surface	Chromium	mg/kg	4.71E+01	6.46E-05	1.84E-04	1.39E-08
227	1	Surface	Cobalt-60	pCi/g	1.53E-02	2.10E-08		4.51E-12
227	1	Surface	Neptunium-237	pCi/g	9.05E-01	1.24E-06		2.67E-10
227	1	Surface	Nickel	mg/kg	2.03E+02	2.78E-04	6.34E-04	5.98E-08
227	1	Surface	PCB, Total	mg/kg	4.14E+00	5.68E-06	4.53E-05	2.07E-06
227	1	Surface	Technetium-99	pCi/g	4.77E+01	6.54E-05		1.41E-08
227	1	Surface	Total PAH	mg/kg	3.38E-01	4.63E-07	3.43E-06	7.38E-09
227	1	Surface	Uranium	mg/kg	1.02E+02	1.39E-04	3.97E-04	2.99E-08
227	1	Surface	Uranium-234	pCi/g	1.54E+01	2.12E-05		4.55E-09
227	1	Surface	Uranium-235	pCi/g	1.49E+00	2.04E-06		4.39E-10
227	1	Surface	Uranium-238	pCi/g	4.63E+01	6.34E-05		1.36E-08
227	2	Surface	Beryllium	mg/kg	5.32E-01	7.29E-07	2.91E-07	1.57E-10
227	2	Surface	Chromium	mg/kg	5.63E+01	7.71E-05	2.20E-04	1.66E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
227	2	Surface	Cobalt	mg/kg	8.99E+00	1.23E-05	3.51E-05	2.65E-09
227	2	Surface	Cobalt-60	pCi/g	1.37E-02	1.88E-08		4.03E-12
227	2	Surface	Mercury	mg/kg	8.41E+00	1.15E-05	3.28E-05	7.43E-05
227	2	Surface	Nickel	mg/kg	1.25E+02	1.71E-04	3.90E-04	3.68E-08
227	2	Surface	PCB, Total	mg/kg	5.82E+00	7.97E-06	6.36E-05	2.91E-06
227	2	Surface	Total PAH	mg/kg	1.16E-01	1.58E-07	1.17E-06	2.53E-09
227	2	Surface	Uranium	mg/kg	1.51E+01	2.06E-05	5.88E-05	4.43E-09
227	2	Surface	Uranium-238	pCi/g	1.57E+00	2.15E-06		4.63E-10
228	1	Surface	Antimony	mg/kg	6.30E-01	8.63E-07	2.46E-06	1.86E-10
228	1	Surface	Cadmium	mg/kg	3.90E+00	5.34E-06	3.05E-07	1.15E-09
228	1	Surface	Chromium	mg/kg	1.89E+02	2.59E-04	7.37E-04	5.56E-08
228	1	Surface	Mercury	mg/kg	9.37E+00	1.28E-05	3.66E-05	8.28E-05
228	1	Surface	Neptunium-237	pCi/g	8.00E-01	1.10E-06		2.36E-10
228	1	Surface	Nickel	mg/kg	7.92E+01	1.08E-04	2.47E-04	2.33E-08
228	1	Surface	Silver	mg/kg	1.16E+01	1.59E-05	3.63E-05	3.42E-09
228	1	Surface	Total PAH	mg/kg	6.69E-02	9.16E-08	6.79E-07	1.46E-09
228	1	Surface	Uranium	mg/kg	1.51E+01	2.07E-05	5.91E-05	4.46E-09
228	1	Surface	Uranium-235	pCi/g	1.78E-01	2.44E-07		5.24E-11
228	1	Surface	Uranium-238	pCi/g	3.77E+00	5.16E-06		1.11E-09
229	1	Surface	Nickel	mg/kg	9.14E+01	1.25E-04	2.85E-04	2.69E-08
229	1	Surface	Total PAH	mg/kg	1.57E-01	2.15E-07	1.59E-06	3.43E-09
229	1	Surface	Uranium	mg/kg	1.56E+02	2.13E-04	6.08E-04	4.59E-08
229	1	Surface	Uranium-238	pCi/g	2.86E+00	3.92E-06		8.42E-10
229	2	Surface	Arsenic	mg/kg	2.12E+01	2.90E-05	4.97E-05	6.24E-09
229	2	Surface	Beryllium	mg/kg	7.90E-01	1.08E-06	4.32E-07	2.33E-10
229	2	Surface	Chromium	mg/kg	2.91E+01	3.99E-05	1.14E-04	8.58E-09
229	2	Surface	Neptunium-237	pCi/g	2.87E-01	3.93E-07		8.45E-11
229	2	Surface	Nickel	mg/kg	9.93E+01	1.36E-04	3.10E-04	2.92E-08
229	2	Surface	Total PAH	mg/kg	1.69E+00	2.32E-06	1.72E-05	3.70E-08
229	2	Surface	Uranium	mg/kg	7.45E+01	1.02E-04	2.91E-04	2.19E-08
229	2	Surface	Uranium-234	pCi/g	1.22E+01	1.67E-05		3.59E-09
229	2	Surface	Uranium-235	pCi/g	8.40E-01	1.15E-06		2.47E-10
229	2	Surface	Uranium-238	pCi/g	2.49E+01	3.41E-05		7.33E-09
483	1	Surface	Nickel	mg/kg	1.17E+02	1.60E-04	3.64E-04	3.43E-08
483	1	Surface	Silver	mg/kg	1.12E+01	1.53E-05	3.49E-05	3.30E-09
483	1	Surface	Total PAH	mg/kg	2.39E-02	3.27E-08	2.43E-07	5.22E-10
486	1	Surface	Cesium-137	pCi/g				
487	1	Surface	Cesium-137	pCi/g				
488	1	Surface	Cesium-137	pCi/g	5.20E-01	7.12E-07		1.53E-10
488	1	Surface	PCB, Total	mg/kg	1.03E+01	1.41E-05	1.13E-04	5.15E-06
488	1	Surface	Total PAH	mg/kg	2.50E-01	3.42E-07	2.54E-06	5.46E-09
488	1	Surface	Uranium	mg/kg	1.48E+01	2.03E-05	5.78E-05	4.36E-09
488	1	Surface	Uranium-235	pCi/g	1.49E-01	2.04E-07		4.39E-11
488	1	Surface	Uranium-238	pCi/g	4.54E+00	6.22E-06		1.34E-09
489	1	Surface	Chromium	mg/kg	4.16E+01	5.70E-05	1.63E-04	1.23E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
489	1	Surface	Nickel	mg/kg	7.88E+01	1.08E-04	2.46E-04	2.32E-08
489	1	Surface	Total PAH	mg/kg	8.22E-02	1.13E-07	8.34E-07	1.80E-09
489	1	Surface	Uranium-238	pCi/g	1.47E+00	2.01E-06		4.33E-10
492	1	Surface	Arsenic	mg/kg	1.47E+01	2.01E-05	3.44E-05	4.33E-09
492	1	Surface	Beryllium	mg/kg	1.04E+01	1.42E-05	5.68E-06	3.06E-09
492	1	Surface	Cadmium	mg/kg	3.14E+00	4.30E-06	2.45E-07	9.25E-10
492	1	Surface	Chromium	mg/kg	1.04E+03	1.42E-03	4.06E-03	3.06E-07
492	1	Surface	Cobalt-60	pCi/g	9.63E-03	1.32E-08		2.84E-12
492	1	Surface	Neptunium-237	pCi/g	2.09E-01	2.86E-07		6.15E-11
492	1	Surface	PCB, Total	mg/kg	4.41E+01	6.04E-05	4.82E-04	2.21E-05
492	1	Surface	Uranium	mg/kg	1.77E+03	2.42E-03	6.91E-03	5.21E-07
492	1	Surface	Uranium-234	pCi/g	5.39E+01	7.38E-05		1.59E-08
492	1	Surface	Uranium-235	pCi/g	5.72E+00	7.84E-06		1.68E-09
492	1	Surface	Uranium-238	pCi/g	3.83E+02	5.25E-04		1.13E-07
492	1	Surface	Vanadium	mg/kg	4.32E+01	5.92E-05	8.77E-05	1.27E-08
493	1	Surface	Aluminum	mg/kg	1.44E+04	1.97E-02	5.62E-02	4.24E-06
493	1	Surface	Barium	mg/kg	4.04E+02	5.53E-04	1.58E-03	1.19E-07
493	1	Surface	Beryllium	mg/kg	9.91E-01	1.36E-06	5.42E-07	2.92E-10
493	1	Surface	Chromium	mg/kg	6.61E+01	9.05E-05	2.58E-04	1.95E-08
493	1	Surface	Cobalt	mg/kg	3.79E+01	5.19E-05	1.48E-04	1.12E-08
493	1	Surface	Cobalt-60	pCi/g	1.36E-02	1.86E-08		4.00E-12
493	1	Surface	Manganese	mg/kg	3.55E+03	4.86E-03	1.11E-02	1.05E-06
493	1	Surface	Mercury	mg/kg	2.60E-01	3.56E-07	1.02E-06	2.30E-06
493	1	Surface	Neptunium-237	pCi/g	1.22E-01	1.67E-07		3.59E-11
493	1	Surface	Nickel	mg/kg	2.13E+02	2.92E-04	6.65E-04	6.27E-08
493	1	Surface	PCB, Total	mg/kg	2.60E-01	3.56E-07	2.84E-06	1.30E-07
493	1	Surface	Total PAH	mg/kg	5.00E-01	6.85E-07	5.08E-06	1.09E-08
493	1	Surface	Uranium-235	pCi/g	1.65E-01	2.26E-07		4.86E-11
493	1	Surface	Uranium-238	pCi/g	5.50E+00	7.53E-06		1.62E-09
493	1	Surface	Vanadium	mg/kg	4.05E+01	5.55E-05	8.22E-05	1.19E-08
517	1	Surface	Beryllium	mg/kg	7.39E-01	1.01E-06	4.04E-07	2.18E-10
517	1	Surface	Chromium	mg/kg	4.91E+01	6.73E-05	1.92E-04	1.45E-08
517	1	Surface	Cobalt-60	pCi/g	6.39E-03	8.75E-09		1.88E-12
517	1	Surface	Neptunium-237	pCi/g	1.07E+00	1.47E-06		3.15E-10
517	1	Surface	Nickel	mg/kg	1.72E+02	2.36E-04	5.37E-04	5.06E-08
517	1	Surface	PCB, Total	mg/kg	5.00E-01	6.85E-07	5.47E-06	2.50E-07
517	1	Surface	Uranium-235	pCi/g	1.60E-01	2.19E-07		4.71E-11
517	1	Surface	Uranium-238	pCi/g	3.89E+00	5.33E-06		1.15E-09
518	1	Surface	Carbazole	mg/kg	1.17E+01	1.61E-05	9.15E-05	1.61E-06
518	1	Surface	Cobalt	mg/kg	6.80E+00	9.32E-06	2.66E-05	2.00E-09
518	1	Surface	Nickel	mg/kg	1.29E+01	1.76E-05	4.02E-05	3.79E-09
518	1	Surface	PCB, Total	mg/kg	6.30E-01	8.63E-07	6.89E-06	3.15E-07
518	1	Surface	Pyrene	mg/kg	3.94E+01	5.40E-05	4.00E-04	7.67E-06
518	1	Surface	Total PAH	mg/kg	4.64E+00	6.35E-06	4.71E-05	1.01E-07
518	1	Surface	Uranium	mg/kg	2.17E+02	2.97E-04	8.47E-04	6.39E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
518	1	Surface	Uranium-235	pCi/g	6.74E-02	9.23E-08		1.98E-11
518	1	Surface	Uranium-238	pCi/g	1.51E+00	2.07E-06		4.46E-10
520	1	Surface	Cesium-137	pCi/g	9.62E-01	1.32E-06		2.83E-10
520	1	Surface	Chromium	mg/kg	3.17E+01	4.35E-05	1.24E-04	9.34E-09
520	1	Surface	Iron	mg/kg	1.56E+04	2.14E-02	6.09E-02	4.59E-06
520	1	Surface	Mercury	mg/kg	1.07E+01	1.46E-05	4.17E-05	9.44E-05
520	1	Surface	Neptunium-237	pCi/g	6.56E-01	8.99E-07		1.93E-10
520	1	Surface	Nickel	mg/kg	2.60E+02	3.57E-04	8.13E-04	7.67E-08
520	1	Surface	Silver	mg/kg	1.30E+01	1.78E-05	4.05E-05	3.82E-09
520	1	Surface	Thorium-230	pCi/g	1.13E+01	1.55E-05		3.34E-09
520	1	Surface	Total PAH	mg/kg	3.18E-02	4.36E-08	3.23E-07	6.96E-10
520	1	Surface	Uranium	mg/kg	2.29E+01	3.14E-05	8.96E-05	6.76E-09
520	1	Surface	Uranium-235	pCi/g	1.26E-01	1.73E-07		3.71E-11
520	1	Surface	Uranium-238	pCi/g	3.93E+00	5.38E-06		1.16E-09
520	2	Surface	Beryllium	mg/kg	5.79E-01	7.93E-07	3.16E-07	1.71E-10
520	2	Surface	Chromium	mg/kg	6.67E+01	9.13E-05	2.60E-04	1.96E-08
520	2	Surface	Manganese	mg/kg	5.89E+02	8.07E-04	1.84E-03	1.74E-07
520	2	Surface	Mercury	mg/kg	1.19E+01	1.63E-05	4.64E-05	1.05E-04
520	2	Surface	Neptunium-237	pCi/g	7.48E-02	1.02E-07		2.20E-11
520	2	Surface	Nickel	mg/kg	3.11E+02	4.25E-04	9.70E-04	9.14E-08
520	2	Surface	Total PAH	mg/kg	3.17E-01	4.34E-07	3.22E-06	6.93E-09
520	2	Surface	Uranium	mg/kg	3.96E+01	5.42E-05	1.54E-04	1.16E-08
520	2	Surface	Uranium-238	pCi/g	1.78E+00	2.44E-06		5.24E-10
520	3	Surface	Chromium	mg/kg	3.97E+01	5.44E-05	1.55E-04	1.17E-08
520	3	Surface	Copper	mg/kg	1.19E+02	1.63E-04	4.65E-04	3.50E-08
520	3	Surface	Nickel	mg/kg	2.65E+02	3.63E-04	8.27E-04	7.80E-08
520	3	Surface	Silver	mg/kg	1.27E+01	1.74E-05	3.96E-05	3.73E-09
520	3	Surface	Total PAH	mg/kg	1.18E-01	1.62E-07	1.20E-06	2.58E-09
520	3	Surface	Uranium	mg/kg	1.92E+01	2.63E-05	7.51E-05	5.66E-09
520	3	Surface	Uranium-238	pCi/g	1.57E+00	2.15E-06		4.62E-10
520	4	Surface	Chromium	mg/kg	3.82E+01	5.24E-05	1.49E-04	1.13E-08
520	4	Surface	Copper	mg/kg	1.11E+02	1.52E-04	4.32E-04	3.26E-08
520	4	Surface	Mercury	mg/kg	9.69E+00	1.33E-05	3.78E-05	8.56E-05
520	4	Surface	Neptunium-237	pCi/g	7.40E-01	1.01E-06		2.18E-10
520	4	Surface	Nickel	mg/kg	2.82E+02	3.86E-04	8.80E-04	8.30E-08
520	4	Surface	Silver	mg/kg	1.04E+01	1.43E-05	3.26E-05	3.07E-09
520	4	Surface	Total PAH	mg/kg	5.52E-01	7.57E-07	5.61E-06	1.21E-08
520	4	Surface	Uranium	mg/kg	2.40E+01	3.29E-05	9.38E-05	7.07E-09
520	4	Surface	Uranium-235	pCi/g	2.42E-01	3.32E-07		7.13E-11
520	4	Surface	Uranium-238	pCi/g	6.26E+00	8.58E-06		1.84E-09
520	5	Surface	Antimony	mg/kg	9.60E-01	1.32E-06	3.75E-06	2.83E-10
520	5	Surface	Chromium	mg/kg	3.68E+01	5.04E-05	1.44E-04	1.08E-08
520	5	Surface	Neptunium-237	pCi/g	1.55E-01	2.12E-07		4.56E-11
520	5	Surface	Nickel	mg/kg	1.47E+02	2.01E-04	4.59E-04	4.33E-08
520	5	Surface	Total PAH	mg/kg	3.87E-01	5.30E-07	3.93E-06	8.46E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
520	5	Surface	Uranium-238	pCi/g	1.45E+00	1.99E-06		4.27E-10
531	1	Surface	Antimony	mg/kg	1.00E+00	1.37E-06	3.90E-06	2.94E-10
531	1	Surface	Arsenic	mg/kg	4.68E+01	6.41E-05	1.10E-04	1.38E-08
531	1	Surface	Cadmium	mg/kg	3.10E+00	4.25E-06	2.42E-07	9.13E-10
531	1	Surface	Chromium	mg/kg	5.05E+01	6.91E-05	1.97E-04	1.49E-08
531	1	Surface	Iron	mg/kg	5.68E+04	7.79E-02	2.22E-01	1.67E-05
531	1	Surface	Nickel	mg/kg	1.62E+02	2.22E-04	5.07E-04	4.78E-08
531	1	Surface	Total PAH	mg/kg	5.34E-02	7.31E-08	5.42E-07	1.17E-09
531	1	Surface	Uranium	mg/kg	2.41E+01	3.30E-05	9.40E-05	7.09E-09
531	1	Surface	Uranium-235	pCi/g	1.38E-01	1.89E-07		4.06E-11
531	1	Surface	Uranium-238	pCi/g	3.48E+00	4.77E-06		1.02E-09
531	1	Surface	Zinc	mg/kg	2.45E+03	3.36E-03	9.57E-03	7.22E-07
541	1	Surface	Aluminum	mg/kg	1.43E+04	1.96E-02	5.58E-02	4.21E-06
541	1	Surface	Americium-241	pCi/g	7.53E+00	1.03E-05		2.22E-09
541	1	Surface	Barium	mg/kg	1.28E+02	1.75E-04	5.00E-04	3.77E-08
541	1	Surface	Beryllium	mg/kg	6.98E-01	9.56E-07	3.82E-07	2.06E-10
541	1	Surface	Cadmium	mg/kg	1.68E+00	2.30E-06	1.31E-07	4.95E-10
541	1	Surface	Cesium-137	pCi/g	9.58E-01	1.31E-06		2.82E-10
541	1	Surface	Chromium	mg/kg	8.24E+02	1.13E-03	3.22E-03	2.43E-07
541	1	Surface	Cobalt-60	pCi/g	1.01E-02	1.38E-08		2.97E-12
541	1	Surface	Iron	mg/kg	1.60E+04	2.19E-02	6.23E-02	4.70E-06
541	1	Surface	Mercury	mg/kg	9.81E-02	1.34E-07	3.83E-07	8.67E-07
541	1	Surface	Naphthalene	mg/kg	6.55E-01	8.97E-07	1.28E-05	6.48E-06
541	1	Surface	Neptunium-237	pCi/g	5.52E-02	7.56E-08		1.63E-11
541	1	Surface	Nickel	mg/kg	1.52E+01	2.09E-05	4.76E-05	4.49E-09
541	1	Surface	PCB, Total	mg/kg	6.06E+01	8.30E-05	6.63E-04	3.03E-05
541	1	Surface	Total PAH	mg/kg	2.33E+00	3.19E-06	2.36E-05	5.09E-08
541	1	Surface	Uranium	mg/kg	6.38E+03	8.74E-03	2.49E-02	1.88E-06
541	1	Surface	Uranium-234	pCi/g	1.43E+02	1.96E-04		4.21E-08
541	1	Surface	Uranium-235	pCi/g	1.76E+01	2.41E-05		5.17E-09
541	1	Surface	Uranium-238	pCi/g	1.00E+03	1.37E-03		2.95E-07
541	1	Surface	Vanadium	mg/kg	3.04E+01	4.17E-05	6.18E-05	8.96E-09
561	1	Surface	Antimony	mg/kg	9.36E-01	1.28E-06	3.65E-06	2.76E-10
561	1	Surface	Arsenic	mg/kg	1.66E+01	2.27E-05	3.88E-05	4.87E-09
561	1	Surface	Barium	mg/kg	1.40E+02	1.92E-04	5.47E-04	4.13E-08
561	1	Surface	Beryllium	mg/kg	6.85E-01	9.38E-07	3.74E-07	2.02E-10
561	1	Surface	Chromium	mg/kg	8.58E+01	1.18E-04	3.35E-04	2.53E-08
561	1	Surface	Cobalt	mg/kg	1.07E+01	1.46E-05	4.17E-05	3.15E-09
561	1	Surface	Cobalt-60	pCi/g	7.06E-02	9.67E-08		2.08E-11
561	1	Surface	Iron	mg/kg	2.05E+04	2.80E-02	7.99E-02	6.03E-06
561	1	Surface	Manganese	mg/kg	1.61E+03	2.20E-03	5.03E-03	4.74E-07
561	1	Surface	Neptunium-237	pCi/g	2.71E-02	3.71E-08		7.98E-12
561	1	Surface	PCB, Total	mg/kg	1.04E+00	1.43E-06	1.14E-05	5.21E-07
561	1	Surface	Thallium	mg/kg	3.33E-01	4.56E-07	1.30E-06	9.81E-11
561	1	Surface	Total PAH	mg/kg	1.65E-01	2.26E-07	1.68E-06	3.61E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
561	1	Surface	Uranium	mg/kg	2.65E+02	3.63E-04	1.03E-03	7.80E-08
561	1	Surface	Uranium-234	pCi/g	7.84E+00	1.07E-05		2.31E-09
561	1	Surface	Uranium-235	pCi/g	1.37E+00	1.87E-06		4.02E-10
561	1	Surface	Uranium-238	pCi/g	1.07E+02	1.46E-04		3.14E-08
561	1	Surface	Vanadium	mg/kg	3.76E+01	5.16E-05	7.64E-05	1.11E-08
561	2	Surface	Antimony	mg/kg	5.33E+00	7.31E-06	2.08E-05	1.57E-09
561	2	Surface	Arsenic	mg/kg	1.30E+01	1.78E-05	3.05E-05	3.83E-09
561	2	Surface	Beryllium	mg/kg	6.34E-01	8.68E-07	3.47E-07	1.87E-10
561	2	Surface	Cadmium	mg/kg	4.13E-01	5.66E-07	3.22E-08	1.22E-10
561	2	Surface	Cesium-137	pCi/g	4.09E-01	5.60E-07		1.20E-10
561	2	Surface	Chromium	mg/kg	2.88E+02	3.95E-04	1.13E-03	8.49E-08
561	2	Surface	Cobalt	mg/kg	1.14E+01	1.56E-05	4.45E-05	3.36E-09
561	2	Surface	Cobalt-60	pCi/g	2.76E-02	3.78E-08		8.13E-12
561	2	Surface	Manganese	mg/kg	1.12E+03	1.53E-03	3.48E-03	3.28E-07
561	2	Surface	Neptunium-237	pCi/g	4.71E-02	6.45E-08		1.39E-11
561	2	Surface	PCB, Total	mg/kg	1.64E+01	2.24E-05	1.79E-04	8.18E-06
561	2	Surface	Thallium	mg/kg	4.09E-01	5.60E-07	1.60E-06	1.20E-10
561	2	Surface	Total PAH	mg/kg	4.43E-01	6.07E-07	4.50E-06	9.68E-09
561	2	Surface	Uranium	mg/kg	1.38E+03	1.89E-03	5.40E-03	4.07E-07
561	2	Surface	Uranium-234	pCi/g	4.06E+01	5.57E-05		1.20E-08
561	2	Surface	Uranium-235	pCi/g	7.09E+00	9.72E-06		2.09E-09
561	2	Surface	Uranium-238	pCi/g	4.00E+02	5.48E-04		1.18E-07
561	2	Surface	Vanadium	mg/kg	3.46E+01	4.73E-05	7.01E-05	1.02E-08
562	1	Surface	Uranium	mg/kg	8.73E+01	1.20E-04	3.41E-04	2.57E-08
562	1	Surface	Uranium-238	pCi/g	2.73E+00	3.74E-06		8.04E-10
562	2	Surface	PCB, Total	mg/kg	1.58E+00	2.16E-06	1.73E-05	7.90E-07
562	2	Surface	Uranium-234	pCi/g	5.34E+01	7.32E-05		1.57E-08
562	2	Surface	Uranium-235	pCi/g	8.96E+00	1.23E-05		2.64E-09
562	2	Surface	Uranium-238	pCi/g	5.81E+02	7.96E-04		1.71E-07
562	3	Surface	Chromium	mg/kg	3.82E+01	5.23E-05	1.49E-04	1.12E-08
562	3	Surface	PCB, Total	mg/kg	2.40E-01	3.29E-07	2.62E-06	1.20E-07
562	3	Surface	Total PAH	mg/kg	2.20E-01	3.01E-07	2.23E-06	4.81E-09
562	3	Surface	Uranium	mg/kg	5.89E+01	8.07E-05	2.30E-04	1.73E-08
562	3	Surface	Uranium-235	pCi/g	1.63E-01	2.23E-07		4.80E-11
562	3	Surface	Uranium-238	pCi/g	1.09E+01	1.49E-05		3.21E-09
562	4	Surface	Chromium	mg/kg	4.67E+01	6.39E-05	1.82E-04	1.37E-08
562	4	Surface	Uranium	mg/kg	2.10E+01	2.88E-05	8.19E-05	6.18E-09
562	4	Surface	Uranium-238	pCi/g	2.24E+00	3.07E-06		6.60E-10
562	5	Surface	Chromium	mg/kg	1.53E+02	2.10E-04	5.98E-04	4.51E-08
562	5	Surface	PCB, Total	mg/kg	9.50E-01	1.30E-06	1.04E-05	4.75E-07
562	5	Surface	Total PAH	mg/kg	7.05E-02	9.66E-08	7.16E-07	1.54E-09
562	5	Surface	Uranium	mg/kg	2.08E+02	2.85E-04	8.12E-04	6.13E-08
562	5	Surface	Uranium-234	pCi/g	8.57E+00	1.17E-05		2.52E-09
562	5	Surface	Uranium-235	pCi/g	5.68E-01	7.78E-07		1.67E-10
562	5	Surface	Uranium-235	pCi/g	9.50E-01	1.30E-06		2.80E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.15. Noncancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
562	5	Surface	Uranium-238	pCi/g	6.24E+01	8.55E-05		1.84E-08
563	1	Surface	Cadmium	mg/kg	8.96E-01	1.23E-06	7.00E-08	2.64E-10
563	1	Surface	Chromium	mg/kg	2.85E+02	3.90E-04	1.11E-03	8.39E-08
563	1	Surface	PCB, Total	mg/kg	7.40E-01	1.01E-06	8.09E-06	3.70E-07
563	1	Surface	Uranium	mg/kg	1.51E+01	2.07E-05	5.89E-05	4.44E-09
563	1	Surface	Uranium-238	pCi/g	2.76E+00	3.78E-06		8.13E-10
563	2	Surface	Cesium-137	pCi/g	6.47E-01	8.86E-07		1.91E-10
563	2	Surface	Uranium-238	pCi/g	1.49E+00	2.04E-06		4.39E-10
564	1	Surface	Arsenic	mg/kg	4.30E+01	5.89E-05	1.01E-04	1.27E-08
564	1	Surface	Beryllium	mg/kg	2.12E+00	2.90E-06	1.16E-06	6.24E-10
564	1	Surface	Cadmium	mg/kg	1.96E+00	2.68E-06	1.53E-07	5.77E-10
564	1	Surface	Cesium-137	pCi/g	6.20E-01	8.49E-07		1.83E-10
564	1	Surface	Chromium	mg/kg	7.49E+01	1.03E-04	2.92E-04	2.21E-08
564	1	Surface	Iron	mg/kg	3.66E+04	5.01E-02	1.43E-01	1.08E-05
564	1	Surface	Mercury	mg/kg	2.30E-01	3.15E-07	8.98E-07	2.03E-06
564	1	Surface	Nickel	mg/kg	2.24E+01	3.07E-05	7.00E-05	6.60E-09
564	1	Surface	PCB, Total	mg/kg	1.93E+00	2.64E-06	2.11E-05	9.65E-07
564	1	Surface	Thallium	mg/kg	2.36E+00	3.23E-06	9.21E-06	6.95E-10
564	1	Surface	Thorium-230	pCi/g	5.01E+00	6.86E-06		1.48E-09
564	1	Surface	Uranium	mg/kg	5.83E+01	7.99E-05	2.28E-04	1.72E-08
564	1	Surface	Uranium-234	pCi/g	6.93E+00	9.49E-06		2.04E-09
564	1	Surface	Uranium-235	pCi/g	3.37E-01	4.62E-07		9.92E-11
564	1	Surface	Uranium-235	pCi/g	3.87E-01	5.30E-07		1.14E-10
564	1	Surface	Uranium-238	pCi/g	8.33E+00	1.14E-05		2.45E-09
564	1	Surface	Vanadium	mg/kg	8.06E+01	1.10E-04	1.64E-04	2.37E-08
567	3	Surface	Chromium	mg/kg	3.79E+01	5.19E-05	1.48E-04	1.12E-08
567	4	Surface	Aluminum	mg/kg	1.25E+04	1.72E-02	4.89E-02	3.69E-06
567	4	Surface	Chromium	mg/kg	1.63E+01	2.23E-05	6.36E-05	4.80E-09
567	4	Surface	Uranium-238	pCi/g	1.05E+00	1.44E-06		3.09E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
1	1	Surface	Beryllium	mg/kg	3.89E+00	1.83E-06	7.30E-07	3.93E-10	
1	1	Surface	Cadmium	mg/kg	1.10E+00	5.17E-07	2.94E-08	1.11E-10	
1	1	Surface	Cesium-137	pCi/g	5.91E-01	4.96E+02		1.07E-01	1.09E+01
1	1	Surface	Chromium	mg/kg	1.28E+01	6.02E-06	1.72E-05	1.29E-09	
1	1	Surface	Neptunium-237	pCi/g	4.02E-01	3.38E+02		7.26E-02	7.40E+00
1	1	Surface	PCB, Total	mg/kg	1.76E-01	8.27E-08	6.60E-07	3.02E-08	
1	1	Surface	Plutonium-239/240	pCi/g	6.14E+00	5.16E+03		1.11E+00	1.13E+02
1	1	Surface	Thorium-230	pCi/g	4.40E+01	3.70E+04		7.95E+00	8.10E+02
1	1	Surface	Uranium-235	pCi/g	1.06E-01	8.90E+01		1.91E-02	1.95E+00
1	1	Surface	Uranium-238	pCi/g	1.97E+00	1.66E+03		3.56E-01	3.63E+01
1	2	Surface	Beryllium	mg/kg	8.23E+00	3.86E-06	1.54E-06	8.31E-10	
1	2	Surface	Cadmium	mg/kg	6.46E+00	3.03E-06	1.73E-07	6.52E-10	
1	2	Surface	Chromium	mg/kg	2.01E+02	9.45E-05	2.69E-04	2.03E-08	
1	2	Surface	Copper	mg/kg	1.81E+02	8.50E-05	2.42E-04	1.83E-08	
1	2	Surface	Mercury	mg/kg	5.94E+00	2.79E-06	7.95E-06	1.80E-05	
1	2	Surface	Nickel	mg/kg	5.75E+01	2.70E-05	6.15E-05	5.80E-09	
1	2	Surface	PCB, Total	mg/kg	3.22E+01	1.51E-05	1.21E-04	5.52E-06	
1	2	Surface	Silver	mg/kg	3.31E+01	1.56E-05	3.55E-05	3.35E-09	
1	2	Surface	Thallium	mg/kg	3.70E-01	1.74E-07	4.95E-07	3.74E-11	
1	2	Surface	Vanadium	mg/kg	3.49E+01	1.64E-05	2.43E-05	3.52E-09	
1	3	Surface	Chromium	mg/kg	1.45E+01	6.80E-06	1.94E-05	1.46E-09	
1	3	Surface	PCB, Total	mg/kg	2.17E-01	1.02E-07	8.13E-07	3.72E-08	
1	3	Surface	Uranium-238	pCi/g	1.73E+00	1.45E+03		3.12E-01	3.19E+01
1	4	Surface	Beryllium	mg/kg	7.25E-01	3.41E-07	1.36E-07	7.32E-11	
1	4	Surface	Chromium	mg/kg	9.30E+01	4.37E-05	1.25E-04	9.39E-09	
1	4	Surface	Cobalt-60	pCi/g	2.20E-02	1.85E+01		3.97E-03	4.05E-01
1	4	Surface	Nickel	mg/kg	4.69E+01	2.20E-05	5.02E-05	4.73E-09	
1	4	Surface	PCB, Total	mg/kg	1.30E-01	6.11E-08	4.87E-07	2.23E-08	
1	4	Surface	Thorium-230	pCi/g	5.03E+00	4.23E+03		9.08E-01	9.26E+01
1	5	Surface	Beryllium	mg/kg	8.30E+00	3.90E-06	1.56E-06	8.38E-10	
1	5	Surface	Cadmium	mg/kg	1.20E+00	5.64E-07	3.21E-08	1.21E-10	
1	5	Surface	Nickel	mg/kg	4.07E+01	1.91E-05	4.36E-05	4.11E-09	
1	5	Surface	PCB, Total	mg/kg	2.70E-01	1.27E-07	1.01E-06	4.63E-08	
1	5	Surface	Total PAH	mg/kg	9.83E-02	4.62E-08	3.42E-07	7.37E-10	
12	1	Surface	Aluminum	mg/kg	8.19E+03	3.85E-03	1.10E-02	8.27E-07	
12	1	Surface	Antimony	mg/kg	5.04E-01	2.37E-07	6.75E-07	5.09E-11	
12	1	Surface	Arsenic	mg/kg	1.34E+01	6.29E-06	1.08E-05	1.35E-09	
12	1	Surface	Barium	mg/kg	1.04E+02	4.87E-05	1.39E-04	1.05E-08	
12	1	Surface	Beryllium	mg/kg	6.72E+00	3.16E-06	1.26E-06	6.78E-10	
12	1	Surface	Cadmium	mg/kg	1.02E+00	4.79E-07	2.73E-08	1.03E-10	
12	1	Surface	Chromium	mg/kg	6.33E+01	2.97E-05	8.47E-05	6.39E-09	
12	1	Surface	Cobalt	mg/kg	9.16E+00	4.30E-06	1.23E-05	9.25E-10	
12	1	Surface	Iron	mg/kg	3.01E+04	1.41E-02	4.02E-02	3.03E-06	
12	1	Surface	Manganese	mg/kg	1.01E+03	4.76E-04	1.09E-03	1.02E-07	
12	1	Surface	Mercury	mg/kg	8.80E+00	4.13E-06	1.18E-05	2.67E-05	
12	1	Surface	Molybdenum	mg/kg	1.74E+01	8.18E-06	2.33E-05	1.76E-09	
12	1	Surface	Nickel	mg/kg	7.74E+01	3.64E-05	8.29E-05	7.82E-09	
12	1	Surface	PCB, Total	mg/kg	3.90E-01	1.83E-07	1.46E-06	6.69E-08	
12	1	Surface	Silver	mg/kg	1.10E+01	5.18E-06	1.18E-05	1.11E-09	
12	1	Surface	Thallium	mg/kg	1.03E+00	4.84E-07	1.38E-06	1.04E-10	
12	1	Surface	Total PAH	mg/kg	1.70E-01	7.98E-08	5.92E-07	1.27E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
12	1	Surface	Uranium	mg/kg	3.76E+02	1.76E-04	5.03E-04	3.79E-08	
12	1	Surface	Uranium-234	pCi/g	1.50E+01	1.26E+04		2.71E+00	2.77E+02
12	1	Surface	Uranium-235	pCi/g	1.53E+00	1.28E+03		2.76E-01	2.81E+01
12	1	Surface	Uranium-238	pCi/g	6.68E+01	5.61E+04		1.21E+01	1.23E+03
12	1	Surface	Vanadium	mg/kg	2.80E+01	1.32E-05	1.95E-05	2.83E-09	
13	1	Surface	PCB, Total	mg/kg	7.00E-01	3.29E-07	2.62E-06	1.20E-07	
13	4	Surface	Uranium-238	pCi/g	1.32E+00	1.11E+03		2.38E-01	2.43E+01
13	5	Surface	Aluminum	mg/kg	1.13E+04	5.29E-03	1.51E-02	1.14E-06	
13	5	Surface	Antimony	mg/kg	8.20E-01	3.85E-07	1.10E-06	8.28E-11	
13	5	Surface	Cadmium	mg/kg	1.20E+00	5.64E-07	3.21E-08	1.21E-10	
13	5	Surface	Chromium	mg/kg	1.51E+01	7.09E-06	2.02E-05	1.52E-09	
13	5	Surface	Nickel	mg/kg	1.17E+02	5.47E-05	1.25E-04	1.18E-08	
13	5	Surface	PCB, Total	mg/kg	1.05E+00	4.93E-07	3.93E-06	1.80E-07	
13	5	Surface	Total PAH	mg/kg	6.65E-02	3.12E-08	2.31E-07	4.98E-10	
13	5	Surface	Uranium	mg/kg	1.19E+02	5.59E-05	1.59E-04	1.20E-08	
13	6	Surface	Uranium-238	pCi/g	1.32E+00	1.11E+03		2.38E-01	2.42E+01
13	9	Surface	Neptunium-237	pCi/g	8.90E-01	7.48E+02		1.61E-01	1.64E+01
13	9	Surface	Uranium	mg/kg	1.82E+01	8.55E-06	2.44E-05	1.84E-09	
13	9	Surface	Uranium-235	pCi/g	3.11E-01	2.61E+02		5.62E-02	5.73E+00
13	9	Surface	Uranium-238	pCi/g	6.08E+00	5.11E+03		1.10E+00	1.12E+02
13	11	Surface	Cobalt-60	pCi/g	1.30E-02	1.09E+01		2.35E-03	2.39E-01
14	1	Surface	Americium-241	pCi/g	1.27E+00	1.06E+03		2.29E-01	2.33E+01
14	1	Surface	Arsenic	mg/kg	1.10E+01	5.16E-06	8.82E-06	1.11E-09	
14	1	Surface	Chromium	mg/kg	6.36E+01	2.99E-05	8.51E-05	6.42E-09	
14	1	Surface	Iron	mg/kg	1.89E+04	8.86E-03	2.52E-02	1.90E-06	
14	1	Surface	Neptunium-237	pCi/g	2.14E-01	1.80E+02		3.86E-02	3.94E+00
14	1	Surface	Nickel	mg/kg	1.40E+02	6.56E-05	1.50E-04	1.41E-08	
14	1	Surface	PCB, Total	mg/kg	5.00E-01	2.35E-07	1.87E-06	8.57E-08	
14	1	Surface	Silver	mg/kg	1.67E+01	7.84E-06	1.79E-05	1.69E-09	
14	1	Surface	Technetium-99	pCi/g	4.06E+02	3.41E+05		7.33E+01	7.47E+03
14	1	Surface	Uranium	mg/kg	7.21E+01	3.39E-05	9.66E-05	7.28E-09	
14	1	Surface	Uranium-238	pCi/g	1.69E+00	1.42E+03		3.05E-01	3.11E+01
14	2	Surface	Antimony	mg/kg	3.70E+00	1.74E-06	4.95E-06	3.74E-10	
14	2	Surface	Arsenic	mg/kg	1.45E+01	6.82E-06	1.17E-05	1.47E-09	
14	2	Surface	Beryllium	mg/kg	7.10E-01	3.33E-07	1.33E-07	7.17E-11	
14	2	Surface	Chromium	mg/kg	6.65E+01	3.13E-05	8.91E-05	6.72E-09	
14	2	Surface	Copper	mg/kg	1.76E+02	8.28E-05	2.36E-04	1.78E-08	
14	2	Surface	Iron	mg/kg	3.72E+04	1.75E-02	4.98E-02	3.75E-06	
14	2	Surface	Manganese	mg/kg	1.44E+03	6.77E-04	1.54E-03	1.46E-07	
14	2	Surface	Mercury	mg/kg	2.67E-01	1.25E-07	3.57E-07	8.09E-07	
14	2	Surface	Neptunium-237	pCi/g	7.70E-01	6.47E+02		1.39E-01	1.42E+01
14	2	Surface	Nickel	mg/kg	6.78E+02	3.18E-04	7.26E-04	6.84E-08	
14	2	Surface	PCB, Total	mg/kg	3.90E-01	1.83E-07	1.46E-06	6.69E-08	
14	2	Surface	Thorium-230	pCi/g	5.98E+00	5.02E+03		1.08E+00	1.10E+02
14	2	Surface	Total PAH	mg/kg	3.38E-01	1.59E-07	1.18E-06	2.53E-09	
14	2	Surface	Uranium	mg/kg	2.93E+02	1.38E-04	3.93E-04	2.96E-08	
14	2	Surface	Uranium-234	pCi/g	3.24E+01	2.72E+04		5.85E+00	5.97E+02
14	2	Surface	Uranium-235	pCi/g	2.00E+00	1.68E+03		3.61E-01	3.68E+01
14	2	Surface	Uranium-238	pCi/g	5.61E+01	4.71E+04		1.01E+01	1.03E+03
14	3	Surface	Arsenic	mg/kg	1.30E+01	6.09E-06	1.04E-05	1.31E-09	
14	3	Surface	Chromium	mg/kg	7.01E+01	3.29E-05	9.39E-05	7.08E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	3	Surface	Copper	mg/kg	1.29E+02	6.07E-05	1.73E-04	1.31E-08	
14	3	Surface	Iron	mg/kg	3.48E+04	1.64E-02	4.66E-02	3.52E-06	
14	3	Surface	Manganese	mg/kg	1.06E+03	4.96E-04	1.13E-03	1.07E-07	
14	3	Surface	Mercury	mg/kg	7.48E+00	3.51E-06	1.00E-05	2.27E-05	
14	3	Surface	Molybdenum	mg/kg	2.21E+01	1.04E-05	2.95E-05	2.23E-09	
14	3	Surface	Nickel	mg/kg	5.76E+02	2.71E-04	6.17E-04	5.82E-08	
14	3	Surface	PCB, Total	mg/kg	8.65E+00	4.06E-06	3.24E-05	1.48E-06	
14	3	Surface	Uranium	mg/kg	2.18E+02	1.02E-04	2.91E-04	2.20E-08	
14	3	Surface	Uranium-238	pCi/g	1.50E+00	1.26E+03		2.71E-01	2.76E+01
14	4	Surface	Antimony	mg/kg	4.30E+00	2.02E-06	5.76E-06	4.34E-10	
14	4	Surface	Arsenic	mg/kg	1.33E+01	6.24E-06	1.07E-05	1.34E-09	
14	4	Surface	Chromium	mg/kg	7.20E+01	3.38E-05	9.64E-05	7.27E-09	
14	4	Surface	Copper	mg/kg	3.54E+02	1.66E-04	4.73E-04	3.57E-08	
14	4	Surface	Iron	mg/kg	3.88E+04	1.82E-02	5.20E-02	3.92E-06	
14	4	Surface	Mercury	mg/kg	4.87E-01	2.29E-07	6.52E-07	1.48E-06	
14	4	Surface	Neptunium-237	pCi/g	2.68E+00	2.25E+03		4.84E-01	4.93E+01
14	4	Surface	Nickel	mg/kg	7.31E+02	3.43E-04	7.82E-04	7.38E-08	
14	4	Surface	PCB, Total	mg/kg	6.61E+00	3.10E-06	2.48E-05	1.13E-06	
14	4	Surface	Silver	mg/kg	1.17E+01	5.50E-06	1.25E-05	1.18E-09	
14	4	Surface	Thorium-230	pCi/g	8.33E+00	7.00E+03		1.50E+00	1.53E+02
14	4	Surface	Total PAH	mg/kg	2.51E-01	1.18E-07	8.73E-07	1.88E-09	
14	4	Surface	Uranium	mg/kg	3.72E+02	1.75E-04	4.98E-04	3.75E-08	
14	4	Surface	Uranium-234	pCi/g	1.13E+02	9.49E+04		2.04E+01	2.08E+03
14	4	Surface	Uranium-235	pCi/g	8.00E+00	6.72E+03		1.44E+00	1.47E+02
14	4	Surface	Uranium-238	pCi/g	1.69E+02	1.42E+05		3.05E+01	3.11E+03
14	5	Surface	Antimony	mg/kg	2.30E+00	1.08E-06	3.08E-06	2.32E-10	
14	5	Surface	Arsenic	mg/kg	1.31E+01	6.14E-06	1.05E-05	1.32E-09	
14	5	Surface	Cadmium	mg/kg	3.90E+00	1.83E-06	1.04E-07	3.94E-10	
14	5	Surface	Chromium	mg/kg	4.70E+01	2.21E-05	6.29E-05	4.74E-09	
14	5	Surface	Cobalt	mg/kg	1.40E+01	6.58E-06	1.87E-05	1.41E-09	
14	5	Surface	Copper	mg/kg	1.34E+02	6.27E-05	1.79E-04	1.35E-08	
14	5	Surface	Iron	mg/kg	3.92E+04	1.84E-02	5.25E-02	3.96E-06	
14	5	Surface	Manganese	mg/kg	8.28E+02	3.89E-04	8.86E-04	8.36E-08	
14	5	Surface	Mercury	mg/kg	1.09E+01	5.14E-06	1.46E-05	3.31E-05	
14	5	Surface	Neptunium-237	pCi/g	1.74E+00	1.46E+03		3.14E-01	3.20E+01
14	5	Surface	Nickel	mg/kg	4.61E+02	2.17E-04	4.94E-04	4.66E-08	
14	5	Surface	PCB, Total	mg/kg	1.00E+00	4.70E-07	3.75E-06	1.71E-07	
14	5	Surface	Silver	mg/kg	1.29E+01	6.04E-06	1.38E-05	1.30E-09	
14	5	Surface	Technetium-99	pCi/g	1.01E+02	8.48E+04		1.82E+01	1.86E+03
14	5	Surface	Thallium	mg/kg	4.10E-01	1.93E-07	5.49E-07	4.14E-11	
14	5	Surface	Thorium-230	pCi/g	1.39E+01	1.17E+04		2.51E+00	2.56E+02
14	5	Surface	Total PAH	mg/kg	1.21E-01	5.68E-08	4.21E-07	9.07E-10	
14	5	Surface	Uranium	mg/kg	2.62E+02	1.23E-04	3.51E-04	2.65E-08	
14	5	Surface	Uranium-234	pCi/g	5.22E+01	4.38E+04		9.43E+00	9.61E+02
14	5	Surface	Uranium-235	pCi/g	3.33E+00	2.80E+03		6.01E-01	6.13E+01
14	5	Surface	Uranium-238	pCi/g	9.42E+01	7.91E+04		1.70E+01	1.73E+03
14	6	Surface	Antimony	mg/kg	2.70E+00	1.27E-06	3.61E-06	2.73E-10	
14	6	Surface	Cadmium	mg/kg	8.40E-01	3.95E-07	2.25E-08	8.48E-11	
14	6	Surface	Chromium	mg/kg	4.46E+02	2.09E-04	5.97E-04	4.50E-08	
14	6	Surface	Copper	mg/kg	1.22E+02	5.74E-05	1.64E-04	1.23E-08	
14	6	Surface	Mercury	mg/kg	3.47E-01	1.63E-07	4.64E-07	1.05E-06	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	6	Surface	Neptunium-237	pCi/g	2.65E+00	2.23E+03		4.79E-01	4.88E+01
14	6	Surface	Nickel	mg/kg	9.63E+02	4.52E-04	1.03E-03	9.73E-08	
14	6	Surface	PCB, Total	mg/kg	5.00E+00	2.35E-06	1.87E-05	8.57E-07	
14	6	Surface	Silver	mg/kg	1.19E+01	5.58E-06	1.27E-05	1.20E-09	
14	6	Surface	Uranium	mg/kg	5.79E+02	2.72E-04	7.75E-04	5.84E-08	
14	6	Surface	Uranium-234	pCi/g	3.41E+01	2.86E+04		6.16E+00	6.28E+02
14	6	Surface	Uranium-235	pCi/g	2.27E+00	1.91E+03		4.10E-01	4.18E+01
14	6	Surface	Uranium-238	pCi/g	5.08E+01	4.27E+04		9.17E+00	9.35E+02
14	7	Surface	Antimony	mg/kg	7.50E-01	3.52E-07	1.00E-06	7.57E-11	
14	7	Surface	Arsenic	mg/kg	1.13E+01	5.31E-06	9.08E-06	1.14E-09	
14	7	Surface	Cadmium	mg/kg	2.70E+00	1.27E-06	7.23E-08	2.73E-10	
14	7	Surface	Chromium	mg/kg	6.46E+01	3.03E-05	8.64E-05	6.52E-09	
14	7	Surface	Mercury	mg/kg	7.82E+00	3.67E-06	1.05E-05	2.37E-05	
14	7	Surface	Neptunium-237	pCi/g	1.49E+00	1.25E+03		2.69E-01	2.74E+01
14	7	Surface	Nickel	mg/kg	1.22E+03	5.74E-04	1.31E-03	1.23E-07	
14	7	Surface	PCB, Total	mg/kg	7.60E+00	3.57E-06	2.85E-05	1.30E-06	
14	7	Surface	Total PAH	mg/kg	6.31E-02	2.97E-08	2.20E-07	4.73E-10	
14	7	Surface	Uranium	mg/kg	3.33E+02	1.56E-04	4.46E-04	3.36E-08	
14	7	Surface	Uranium-234	pCi/g	1.28E+01	1.08E+04		2.31E+00	2.36E+02
14	7	Surface	Uranium-235	pCi/g	9.60E-01	8.06E+02		1.73E-01	1.77E+01
14	7	Surface	Uranium-238	pCi/g	2.13E+01	1.79E+04		3.85E+00	3.92E+02
14	8	Surface	Antimony	mg/kg	6.10E-01	2.86E-07	8.17E-07	6.16E-11	
14	8	Surface	Arsenic	mg/kg	1.14E+01	5.34E-06	9.14E-06	1.15E-09	
14	8	Surface	Chromium	mg/kg	4.60E+01	2.16E-05	6.16E-05	4.65E-09	
14	8	Surface	Mercury	mg/kg	7.90E+00	3.71E-06	1.06E-05	2.39E-05	
14	8	Surface	Neptunium-237	pCi/g	8.80E-01	7.39E+02		1.59E-01	1.62E+01
14	8	Surface	Nickel	mg/kg	6.73E+02	3.16E-04	7.20E-04	6.79E-08	
14	8	Surface	PCB, Total	mg/kg	5.00E+00	2.35E-06	1.87E-05	8.57E-07	
14	8	Surface	Silver	mg/kg	9.63E+00	4.52E-06	1.03E-05	9.72E-10	
14	8	Surface	Total PAH	mg/kg	6.28E-02	2.95E-08	2.18E-07	4.70E-10	
14	8	Surface	Uranium	mg/kg	3.35E+02	1.57E-04	4.49E-04	3.39E-08	
14	8	Surface	Uranium-235	pCi/g	2.38E-01	2.00E+02		4.30E-02	4.38E+00
14	8	Surface	Uranium-238	pCi/g	5.92E+00	4.97E+03		1.07E+00	1.09E+02
14	9	Surface	Antimony	mg/kg	2.00E+00	9.39E-07	2.68E-06	2.02E-10	
14	9	Surface	Arsenic	mg/kg	1.40E+01	6.59E-06	1.13E-05	1.42E-09	
14	9	Surface	Cadmium	mg/kg	9.40E-01	4.41E-07	2.52E-08	9.49E-11	
14	9	Surface	Cesium-137	pCi/g	4.53E-01	3.81E+02		8.18E-02	8.34E+00
14	9	Surface	Chromium	mg/kg	4.64E+01	2.18E-05	6.22E-05	4.69E-09	
14	9	Surface	Mercury	mg/kg	1.13E+00	5.31E-07	1.51E-06	3.42E-06	
14	9	Surface	Neptunium-237	pCi/g	1.09E+01	9.18E+03		1.97E+00	2.01E+02
14	9	Surface	Nickel	mg/kg	9.43E+02	4.43E-04	1.01E-03	9.52E-08	
14	9	Surface	PCB, Total	mg/kg	6.84E+00	3.21E-06	2.56E-05	1.17E-06	
14	9	Surface	Technetium-99	pCi/g	1.96E+02	1.65E+05		3.54E+01	3.61E+03
14	9	Surface	Total PAH	mg/kg	4.87E-01	2.29E-07	1.70E-06	3.65E-09	
14	9	Surface	Uranium	mg/kg	1.46E+03	6.88E-04	1.96E-03	1.48E-07	
14	9	Surface	Uranium-234	pCi/g	8.32E+02	6.99E+05		1.50E+02	1.53E+04
14	9	Surface	Uranium-235	pCi/g	5.46E+01	4.58E+04		9.85E+00	1.00E+03
14	9	Surface	Uranium-238	pCi/g	1.20E+03	1.01E+06		2.17E+02	2.21E+04
14	10	Surface	Antimony	mg/kg	9.40E-01	4.41E-07	1.26E-06	9.49E-11	
14	10	Surface	Arsenic	mg/kg	1.12E+01	5.28E-06	9.03E-06	1.13E-09	
14	10	Surface	Chromium	mg/kg	4.19E+01	1.97E-05	5.60E-05	4.23E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	10	Surface	Copper	mg/kg	1.41E+02	6.63E-05	1.89E-04	1.43E-08	
14	10	Surface	Iron	mg/kg	2.75E+04	1.29E-02	3.67E-02	2.77E-06	
14	10	Surface	Mercury	mg/kg	2.51E+01	1.18E-05	3.36E-05	7.60E-05	
14	10	Surface	Neptunium-237	pCi/g	2.64E+00	2.22E+03		4.77E-01	4.86E+01
14	10	Surface	Nickel	mg/kg	6.00E+02	2.82E-04	6.43E-04	6.06E-08	
14	10	Surface	PCB, Total	mg/kg	9.38E+00	4.41E-06	3.52E-05	1.61E-06	
14	10	Surface	Total PAH	mg/kg	2.72E-01	1.28E-07	9.45E-07	2.03E-09	
14	10	Surface	Uranium	mg/kg	2.88E+02	1.35E-04	3.86E-04	2.91E-08	
14	10	Surface	Uranium-234	pCi/g	2.42E+01	2.03E+04		4.37E+00	4.46E+02
14	10	Surface	Uranium-235	pCi/g	1.76E+00	1.48E+03		3.18E-01	3.24E+01
14	10	Surface	Uranium-238	pCi/g	4.09E+01	3.44E+04		7.39E+00	7.53E+02
15	1	Surface	Antimony	mg/kg	6.40E-01	3.01E-07	8.57E-07	6.46E-11	
15	1	Surface	Arsenic	mg/kg	1.24E+01	5.81E-06	9.93E-06	1.25E-09	
15	1	Surface	Chromium	mg/kg	5.61E+01	2.63E-05	7.51E-05	5.66E-09	
15	1	Surface	Copper	mg/kg	1.95E+02	9.15E-05	2.61E-04	1.97E-08	
15	1	Surface	Iron	mg/kg	2.95E+04	1.39E-02	3.95E-02	2.98E-06	
15	1	Surface	Nickel	mg/kg	1.33E+02	6.23E-05	1.42E-04	1.34E-08	
15	1	Surface	PCB, Total	mg/kg	7.80E-02	3.66E-08	2.92E-07	1.34E-08	
15	1	Surface	Silver	mg/kg	1.23E+01	5.77E-06	1.32E-05	1.24E-09	
15	1	Surface	Total PAH	mg/kg	1.71E+00	8.05E-07	5.97E-06	1.28E-08	
15	1	Surface	Uranium	mg/kg	3.09E+01	1.45E-05	4.14E-05	3.12E-09	
15	1	Surface	Uranium-238	pCi/g	1.85E+00	1.55E+03		3.34E-01	3.41E+01
15	2	Surface	Antimony	mg/kg	6.60E-01	3.10E-07	8.83E-07	6.66E-11	
15	2	Surface	Arsenic	mg/kg	1.63E+01	7.64E-06	1.31E-05	1.64E-09	
15	2	Surface	Chromium	mg/kg	5.90E+01	2.77E-05	7.90E-05	5.96E-09	
15	2	Surface	Iron	mg/kg	3.89E+04	1.83E-02	5.21E-02	3.93E-06	
15	2	Surface	Mercury	mg/kg	9.33E+00	4.38E-06	1.25E-05	2.83E-05	
15	2	Surface	Neptunium-237	pCi/g	1.35E-01	1.13E+02		2.44E-02	2.49E+00
15	2	Surface	Nickel	mg/kg	1.97E+02	9.26E-05	2.11E-04	1.99E-08	
15	2	Surface	PCB, Total	mg/kg	3.30E-01	1.55E-07	1.24E-06	5.66E-08	
15	2	Surface	Total PAH	mg/kg	2.11E+00	9.90E-07	7.34E-06	1.58E-08	
15	2	Surface	Uranium	mg/kg	1.32E+02	6.19E-05	1.76E-04	1.33E-08	
15	2	Surface	Uranium-234	pCi/g	6.51E+00	5.47E+03		1.18E+00	1.20E+02
15	2	Surface	Uranium-235	pCi/g	3.80E-01	3.19E+02		6.86E-02	7.00E+00
15	2	Surface	Uranium-238	pCi/g	1.21E+01	1.02E+04		2.18E+00	2.23E+02
15	3	Surface	Antimony	mg/kg	2.45E+01	1.15E-05	3.28E-05	2.47E-09	
15	3	Surface	Arsenic	mg/kg	2.60E+01	1.22E-05	2.09E-05	2.62E-09	
15	3	Surface	Beryllium	mg/kg	7.60E-01	3.57E-07	1.42E-07	7.67E-11	
15	3	Surface	Cadmium	mg/kg	1.19E+01	5.59E-06	3.19E-07	1.20E-09	
15	3	Surface	Chromium	mg/kg	7.53E+01	3.54E-05	1.01E-04	7.61E-09	
15	3	Surface	Cobalt	mg/kg	3.41E+01	1.60E-05	4.56E-05	3.44E-09	
15	3	Surface	Copper	mg/kg	1.40E+03	6.56E-04	1.87E-03	1.41E-07	
15	3	Surface	Iron	mg/kg	9.20E+04	4.32E-02	1.23E-01	9.29E-06	
15	3	Surface	Manganese	mg/kg	1.60E+03	7.53E-04	1.72E-03	1.62E-07	
15	3	Surface	Mercury	mg/kg	2.74E+00	1.29E-06	3.67E-06	8.30E-06	
15	3	Surface	Molybdenum	mg/kg	1.70E+01	7.98E-06	2.28E-05	1.72E-09	
15	3	Surface	Neptunium-237	pCi/g	4.10E+00	3.44E+03		7.40E-01	7.55E+01
15	3	Surface	Nickel	mg/kg	7.57E+02	3.55E-04	8.10E-04	7.64E-08	
15	3	Surface	PCB, Total	mg/kg	6.82E+00	3.21E-06	2.56E-05	1.17E-06	
15	3	Surface	Selenium	mg/kg	2.65E+01	1.24E-05	3.54E-05	2.67E-09	
15	3	Surface	Silver	mg/kg	3.20E+00	1.50E-06	3.43E-06	3.23E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	3	Surface	Technetium-99	pCi/g	3.67E+02	3.08E+05		6.63E+01	6.76E+03
15	3	Surface	Thorium-230	pCi/g	7.23E+00	6.07E+03		1.31E+00	1.33E+02
15	3	Surface	Total PAH	mg/kg	1.45E+00	6.83E-07	5.06E-06	1.09E-08	
15	3	Surface	Uranium	mg/kg	2.16E+02	1.01E-04	2.89E-04	2.18E-08	
15	3	Surface	Uranium-234	pCi/g	6.96E+01	5.85E+04		1.26E+01	1.28E+03
15	3	Surface	Uranium-235	pCi/g	4.21E+00	3.54E+03		7.60E-01	7.75E+01
15	3	Surface	Uranium-238	pCi/g	9.67E+01	8.12E+04		1.75E+01	1.78E+03
15	3	Surface	Zinc	mg/kg	8.79E+02	4.13E-04	1.18E-03	8.88E-08	
15	4	Surface	Antimony	mg/kg	7.40E+00	3.48E-06	9.91E-06	7.47E-10	
15	4	Surface	Arsenic	mg/kg	3.47E+01	1.63E-05	2.78E-05	3.50E-09	
15	4	Surface	Cadmium	mg/kg	1.40E+00	6.58E-07	3.75E-08	1.41E-10	
15	4	Surface	Chromium	mg/kg	1.02E+02	4.80E-05	1.37E-04	1.03E-08	
15	4	Surface	Copper	mg/kg	7.05E+02	3.31E-04	9.44E-04	7.12E-08	
15	4	Surface	Iron	mg/kg	7.81E+04	3.67E-02	1.05E-01	7.89E-06	
15	4	Surface	Manganese	mg/kg	1.54E+03	7.21E-04	1.64E-03	1.55E-07	
15	4	Surface	Mercury	mg/kg	1.41E+01	6.62E-06	1.89E-05	4.27E-05	
15	4	Surface	Neptunium-237	pCi/g	8.00E-01	6.72E+02		1.44E-01	1.47E+01
15	4	Surface	Nickel	mg/kg	1.37E+03	6.45E-04	1.47E-03	1.39E-07	
15	4	Surface	PCB, Total	mg/kg	2.67E+01	1.25E-05	1.00E-04	4.58E-06	
15	4	Surface	Silver	mg/kg	1.46E+01	6.86E-06	1.56E-05	1.47E-09	
15	4	Surface	Total PAH	mg/kg	2.44E+00	1.15E-06	8.51E-06	1.83E-08	
15	4	Surface	Uranium	mg/kg	1.57E+02	7.35E-05	2.09E-04	1.58E-08	
15	4	Surface	Uranium-234	pCi/g	1.07E+01	8.99E+03		1.93E+00	1.97E+02
15	4	Surface	Uranium-235	pCi/g	4.30E-01	3.61E+02		7.76E-02	7.92E+00
15	4	Surface	Uranium-238	pCi/g	1.87E+01	1.57E+04		3.38E+00	3.44E+02
15	4	Surface	Zinc	mg/kg	1.19E+03	5.58E-04	1.59E-03	1.20E-07	
15	5	Surface	Antimony	mg/kg	3.10E+00	1.46E-06	4.15E-06	3.13E-10	
15	5	Surface	Arsenic	mg/kg	1.28E+01	6.01E-06	1.03E-05	1.29E-09	
15	5	Surface	Cadmium	mg/kg	1.50E+00	7.05E-07	4.02E-08	1.51E-10	
15	5	Surface	Chromium	mg/kg	4.28E+01	2.01E-05	5.73E-05	4.32E-09	
15	5	Surface	Copper	mg/kg	5.63E+03	2.65E-03	7.54E-03	5.69E-07	
15	5	Surface	Mercury	mg/kg	3.38E-01	1.59E-07	4.52E-07	1.02E-06	
15	5	Surface	Neptunium-237	pCi/g	6.90E-01	5.80E+02		1.25E-01	1.27E+01
15	5	Surface	Nickel	mg/kg	5.10E+02	2.40E-04	5.46E-04	5.15E-08	
15	5	Surface	PCB, Total	mg/kg	2.51E+01	1.18E-05	9.42E-05	4.31E-06	
15	5	Surface	Silver	mg/kg	1.46E+01	6.86E-06	1.56E-05	1.47E-09	
15	5	Surface	Technetium-99	pCi/g	1.07E+02	8.99E+04		1.93E+01	1.97E+03
15	5	Surface	Total PAH	mg/kg	5.11E-01	2.40E-07	1.78E-06	3.83E-09	
15	5	Surface	Uranium	mg/kg	2.13E+02	1.00E-04	2.86E-04	2.15E-08	
15	5	Surface	Uranium-234	pCi/g	5.83E+00	4.90E+03		1.05E+00	1.07E+02
15	5	Surface	Uranium-235	pCi/g	4.60E-01	3.86E+02		8.31E-02	8.47E+00
15	5	Surface	Uranium-238	pCi/g	1.03E+01	8.65E+03		1.86E+00	1.90E+02
15	5	Surface	Zinc	mg/kg	1.52E+03	7.16E-04	2.04E-03	1.54E-07	
15	6	Surface	Antimony	mg/kg	5.10E+00	2.40E-06	6.83E-06	5.15E-10	
15	6	Surface	Arsenic	mg/kg	1.24E+01	5.84E-06	9.98E-06	1.25E-09	
15	6	Surface	Cadmium	mg/kg	1.50E+00	7.05E-07	4.02E-08	1.51E-10	
15	6	Surface	Chromium	mg/kg	5.80E+01	2.72E-05	7.76E-05	5.85E-09	
15	6	Surface	Cobalt	mg/kg	1.62E+01	7.61E-06	2.17E-05	1.64E-09	
15	6	Surface	Copper	mg/kg	4.23E+02	1.99E-04	5.66E-04	4.27E-08	
15	6	Surface	Iron	mg/kg	3.15E+04	1.48E-02	4.22E-02	3.18E-06	
15	6	Surface	Mercury	mg/kg	4.10E-01	1.93E-07	5.49E-07	1.24E-06	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	6	Surface	Neptunium-237	pCi/g	6.40E-01	5.38E+02		1.16E-01	1.18E+01
15	6	Surface	Nickel	mg/kg	3.24E+02	1.52E-04	3.47E-04	3.27E-08	
15	6	Surface	PCB, Total	mg/kg	6.17E+00	2.90E-06	2.31E-05	1.06E-06	
15	6	Surface	Silver	mg/kg	1.09E+01	5.12E-06	1.17E-05	1.10E-09	
15	6	Surface	Total PAH	mg/kg	1.62E+00	7.63E-07	5.65E-06	1.22E-08	
15	6	Surface	Uranium	mg/kg	6.70E+01	3.15E-05	8.97E-05	6.77E-09	
15	6	Surface	Uranium-234	pCi/g	8.74E+00	7.34E+03		1.58E+00	1.61E+02
15	6	Surface	Uranium-235	pCi/g	5.70E-01	4.79E+02		1.03E-01	1.05E+01
15	6	Surface	Uranium-238	pCi/g	1.54E+01	1.29E+04		2.78E+00	2.84E+02
15	7	Surface	Antimony	mg/kg	7.50E-01	3.52E-07	1.00E-06	7.57E-11	
15	7	Surface	Arsenic	mg/kg	1.61E+01	7.55E-06	1.29E-05	1.62E-09	
15	7	Surface	Cadmium	mg/kg	1.00E+00	4.70E-07	2.68E-08	1.01E-10	
15	7	Surface	Chromium	mg/kg	7.87E+01	3.70E-05	1.05E-04	7.95E-09	
15	7	Surface	Copper	mg/kg	7.33E+02	3.44E-04	9.81E-04	7.40E-08	
15	7	Surface	Iron	mg/kg	3.42E+04	1.61E-02	4.58E-02	3.45E-06	
15	7	Surface	Manganese	mg/kg	1.11E+03	5.19E-04	1.18E-03	1.12E-07	
15	7	Surface	Neptunium-237	pCi/g	2.23E-01	1.87E+02		4.03E-02	4.11E+00
15	7	Surface	Nickel	mg/kg	5.59E+02	2.62E-04	5.98E-04	5.64E-08	
15	7	Surface	PCB, Total	mg/kg	2.57E+01	1.21E-05	9.62E-05	4.40E-06	
15	7	Surface	Silver	mg/kg	1.29E+01	6.04E-06	1.38E-05	1.30E-09	
15	7	Surface	Total PAH	mg/kg	1.59E-01	7.46E-08	5.53E-07	1.19E-09	
15	7	Surface	Uranium	mg/kg	5.39E+01	2.53E-05	7.21E-05	5.44E-09	
15	7	Surface	Uranium-234	pCi/g	6.49E+00	5.45E+03		1.17E+00	1.19E+02
15	7	Surface	Uranium-235	pCi/g	4.50E-01	3.78E+02		8.13E-02	8.28E+00
15	7	Surface	Uranium-238	pCi/g	8.05E+00	6.76E+03		1.45E+00	1.48E+02
15	7	Surface	Zinc	mg/kg	5.87E+02	2.76E-04	7.86E-04	5.93E-08	
15	8	Surface	Antimony	mg/kg	5.40E+00	2.54E-06	7.23E-06	5.45E-10	
15	8	Surface	Arsenic	mg/kg	1.17E+01	5.47E-06	9.36E-06	1.18E-09	
15	8	Surface	Chromium	mg/kg	7.74E+01	3.63E-05	1.04E-04	7.81E-09	
15	8	Surface	Copper	mg/kg	1.62E+02	7.60E-05	2.17E-04	1.63E-08	
15	8	Surface	Iron	mg/kg	2.83E+04	1.33E-02	3.78E-02	2.85E-06	
15	8	Surface	Mercury	mg/kg	1.00E+01	4.72E-06	1.34E-05	3.04E-05	
15	8	Surface	Neptunium-237	pCi/g	3.65E-01	3.07E+02		6.59E-02	6.72E+00
15	8	Surface	Nickel	mg/kg	1.82E+02	8.53E-05	1.95E-04	1.83E-08	
15	8	Surface	PCB, Total	mg/kg	4.90E+00	2.30E-06	1.84E-05	8.40E-07	
15	8	Surface	Silver	mg/kg	1.36E+01	6.36E-06	1.45E-05	1.37E-09	
15	8	Surface	Total PAH	mg/kg	3.59E-01	1.69E-07	1.25E-06	2.69E-09	
15	8	Surface	Uranium	mg/kg	4.46E+01	2.09E-05	5.96E-05	4.50E-09	
15	8	Surface	Uranium-235	pCi/g	3.04E-01	2.55E+02		5.49E-02	5.60E+00
15	8	Surface	Uranium-238	pCi/g	6.64E+00	5.58E+03		1.20E+00	1.22E+02
15	9	Surface	Arsenic	mg/kg	1.10E+01	5.19E-06	8.87E-06	1.11E-09	
15	9	Surface	Chromium	mg/kg	9.56E+01	4.49E-05	1.28E-04	9.65E-09	
15	9	Surface	Copper	mg/kg	1.36E+02	6.38E-05	1.82E-04	1.37E-08	
15	9	Surface	Iron	mg/kg	2.76E+04	1.30E-02	3.69E-02	2.79E-06	
15	9	Surface	Neptunium-237	pCi/g	1.28E-01	1.08E+02		2.31E-02	2.36E+00
15	9	Surface	Nickel	mg/kg	1.49E+02	6.99E-05	1.59E-04	1.50E-08	
15	9	Surface	PCB, Total	mg/kg	3.30E-01	1.55E-07	1.24E-06	5.66E-08	
15	9	Surface	Silver	mg/kg	1.54E+01	7.24E-06	1.65E-05	1.56E-09	
15	9	Surface	Total PAH	mg/kg	2.38E-01	1.12E-07	8.29E-07	1.79E-09	
15	9	Surface	Uranium	mg/kg	3.07E+01	1.44E-05	4.10E-05	3.10E-09	
15	9	Surface	Uranium-235	pCi/g	2.42E-01	2.03E+02		4.37E-02	4.46E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	9	Surface	Uranium-238	pCi/g	7.12E+00	5.98E+03		1.29E+00	1.31E+02
15	10	Surface	Chromium	mg/kg	3.55E+01	1.67E-05	4.75E-05	3.58E-09	
15	10	Surface	Mercury	mg/kg	7.84E+00	3.68E-06	1.05E-05	2.37E-05	
15	10	Surface	Nickel	mg/kg	1.46E+02	6.84E-05	1.56E-04	1.47E-08	
15	10	Surface	Silver	mg/kg	1.08E+01	5.08E-06	1.16E-05	1.09E-09	
15	10	Surface	Total PAH	mg/kg	1.28E-01	6.03E-08	4.47E-07	9.63E-10	
15	10	Surface	Uranium	mg/kg	6.47E+01	3.04E-05	8.66E-05	6.54E-09	
16	1	Surface	Cesium-137	pCi/g	1.10E+00	9.24E+02		1.99E-01	2.03E+01
16	1	Surface	PCB, Total	mg/kg	9.60E-02	4.51E-08	3.60E-07	1.65E-08	
16	1	Surface	Total PAH	mg/kg	2.72E-02	1.28E-08	9.47E-08	2.04E-10	
16	2	Surface	Beryllium	mg/kg	8.40E-01	3.95E-07	1.57E-07	8.48E-11	
16	2	Surface	Chromium	mg/kg	2.04E+01	9.58E-06	2.73E-05	2.06E-09	
16	2	Surface	Nickel	mg/kg	2.16E+01	1.01E-05	2.31E-05	2.18E-09	
16	3	Surface	PCB, Total	mg/kg	9.49E-01	4.46E-07	3.56E-06	1.63E-07	
16	4	Surface	Cesium-137	pCi/g	3.66E+01	3.07E+04		6.61E+00	6.73E+02
16	4	Surface	Cobalt-60	pCi/g	8.53E-03	7.17E+00		1.54E-03	1.57E-01
16	4	Surface	Neptunium-237	pCi/g	7.12E+00	5.98E+03		1.29E+00	1.31E+02
16	4	Surface	PCB, Total	mg/kg	3.20E-01	1.50E-07	1.20E-06	5.49E-08	
16	4	Surface	Technetium-99	pCi/g	2.96E+02	2.48E+05		5.34E+01	5.44E+03
16	4	Surface	Thorium-230	pCi/g	5.29E+00	4.44E+03		9.55E-01	9.74E+01
16	4	Surface	Total PAH	mg/kg	2.93E+00	1.38E-06	1.02E-05	2.19E-08	
16	4	Surface	Uranium-234	pCi/g	1.19E+02	1.00E+05		2.15E+01	2.19E+03
16	4	Surface	Uranium-235	pCi/g	8.23E+00	6.91E+03		1.49E+00	1.52E+02
16	4	Surface	Uranium-238	pCi/g	2.70E+02	2.27E+05		4.88E+01	4.97E+03
19	1	Surface	Beryllium	mg/kg	1.10E+00	5.17E-07	2.06E-07	1.11E-10	
19	1	Surface	Cadmium	mg/kg	1.20E+00	5.64E-07	3.21E-08	1.21E-10	
19	1	Surface	Thallium	mg/kg	9.80E-01	4.60E-07	1.31E-06	9.89E-11	
19	1	Surface	Total PAH	mg/kg	5.23E+00	2.45E-06	1.82E-05	3.92E-08	
26	1	Surface	Arsenic	mg/kg	1.29E+01	6.05E-06	1.03E-05	1.30E-09	
26	1	Surface	Beryllium	mg/kg	6.69E-01	3.14E-07	1.25E-07	6.75E-11	
26	1	Surface	Cadmium	mg/kg	1.99E+00	9.36E-07	5.34E-08	2.01E-10	
26	1	Surface	Cesium-137	pCi/g	3.16E+00	2.66E+03		5.71E-01	5.83E+01
26	1	Surface	Chromium	mg/kg	1.90E+01	8.92E-06	2.54E-05	1.92E-09	
26	1	Surface	Cobalt-60	pCi/g	1.93E-03	1.62E+00		3.49E-04	3.55E-02
26	1	Surface	Mercury	mg/kg	1.66E-01	7.80E-08	2.22E-07	5.03E-07	
26	1	Surface	Neptunium-237	pCi/g	2.61E-01	2.19E+02		4.71E-02	4.81E+00
26	1	Surface	Nickel	mg/kg	1.76E+01	8.26E-06	1.88E-05	1.78E-09	
26	1	Surface	PCB, Total	mg/kg	9.33E-01	4.38E-07	3.50E-06	1.60E-07	
26	1	Surface	Plutonium-239/240	pCi/g	4.04E+00	3.39E+03		7.29E-01	7.43E+01
26	1	Surface	Thorium-230	pCi/g	3.82E+00	3.21E+03		6.89E-01	7.03E+01
26	1	Surface	Total PAH	mg/kg	5.00E-02	2.35E-08	1.74E-07	3.75E-10	
26	1	Surface	Uranium	mg/kg	1.29E+02	6.04E-05	1.72E-04	1.30E-08	
26	1	Surface	Uranium-234	pCi/g	4.67E+00	3.92E+03		8.42E-01	8.59E+01
26	1	Surface	Uranium-235	pCi/g	6.41E-01	5.38E+02		1.16E-01	1.18E+01
26	1	Surface	Uranium-238	pCi/g	3.47E+01	2.91E+04		6.26E+00	6.38E+02
26	2	Surface	Aluminum	mg/kg	2.17E+04	1.02E-02	2.90E-02	2.19E-06	
26	2	Surface	Arsenic	mg/kg	4.72E+01	2.22E-05	3.79E-05	4.77E-09	
26	2	Surface	Barium	mg/kg	1.49E+02	6.98E-05	1.99E-04	1.50E-08	
26	2	Surface	Beryllium	mg/kg	9.69E+00	4.55E-06	1.82E-06	9.79E-10	
26	2	Surface	Cadmium	mg/kg	2.38E+00	1.12E-06	6.37E-08	2.40E-10	
26	2	Surface	Cesium-137	pCi/g	5.92E+00	4.97E+03		1.07E+00	1.09E+02

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
26	2	Surface	Chromium	mg/kg	3.90E+01	1.83E-05	5.22E-05	3.94E-09	
26	2	Surface	Cobalt	mg/kg	5.20E+01	2.44E-05	6.96E-05	5.25E-09	
26	2	Surface	Copper	mg/kg	1.31E+02	6.15E-05	1.75E-04	1.32E-08	
26	2	Surface	Iron	mg/kg	5.32E+04	2.50E-02	7.12E-02	5.37E-06	
26	2	Surface	Neptunium-237	pCi/g	7.89E-01	6.63E+02		1.42E-01	1.45E+01
26	2	Surface	Nickel	mg/kg	1.13E+02	5.31E-05	1.21E-04	1.14E-08	
26	2	Surface	PCB, Total	mg/kg	2.23E+00	1.05E-06	8.35E-06	3.82E-07	
26	2	Surface	Thallium	mg/kg	1.39E+01	6.53E-06	1.86E-05	1.40E-09	
26	2	Surface	Thorium-230	pCi/g	1.51E+01	1.27E+04		2.73E+00	2.79E+02
26	2	Surface	Uranium	mg/kg	6.46E+02	3.03E-04	8.65E-04	6.52E-08	
26	2	Surface	Uranium-234	pCi/g	1.91E+01	1.60E+04		3.44E+00	3.51E+02
26	2	Surface	Uranium-235	pCi/g	1.71E+00	1.43E+03		3.08E-01	3.14E+01
26	2	Surface	Uranium-238	pCi/g	5.14E+01	4.32E+04		9.29E+00	9.47E+02
26	2	Surface	Vanadium	mg/kg	3.13E+01	1.47E-05	2.18E-05	3.16E-09	
26	3	Surface	Aluminum	mg/kg	9.55E+03	4.48E-03	1.28E-02	9.64E-07	
26	3	Surface	Antimony	mg/kg	1.40E+00	6.58E-07	1.87E-06	1.41E-10	
26	3	Surface	Arsenic	mg/kg	5.09E+01	2.39E-05	4.09E-05	5.14E-09	
26	3	Surface	Barium	mg/kg	4.48E+02	2.10E-04	5.99E-04	4.52E-08	
26	3	Surface	Beryllium	mg/kg	2.54E+00	1.19E-06	4.75E-07	2.56E-10	
26	3	Surface	Cadmium	mg/kg	2.34E+00	1.10E-06	6.26E-08	2.36E-10	
26	3	Surface	Cesium-137	pCi/g	7.48E-01	6.28E+02		1.35E-01	1.38E+01
26	3	Surface	Chromium	mg/kg	3.25E+01	1.53E-05	4.36E-05	3.29E-09	
26	3	Surface	Cobalt	mg/kg	1.21E+01	5.69E-06	1.62E-05	1.22E-09	
26	3	Surface	Mercury	mg/kg	3.87E-01	1.82E-07	5.18E-07	1.17E-06	
26	3	Surface	Naphthalene	mg/kg	1.32E+00	6.20E-07	8.83E-06	4.47E-06	
26	3	Surface	Neptunium-237	pCi/g	7.53E-01	6.33E+02		1.36E-01	1.39E+01
26	3	Surface	Nickel	mg/kg	2.97E+01	1.39E-05	3.18E-05	3.00E-09	
26	3	Surface	PCB, Total	mg/kg	2.52E+00	1.18E-06	9.44E-06	4.32E-07	
26	3	Surface	Silver	mg/kg	2.59E+01	1.22E-05	2.77E-05	2.61E-09	
26	3	Surface	Technetium-99	pCi/g	6.48E+01	5.44E+04		1.17E+01	1.19E+03
26	3	Surface	Thallium	mg/kg	6.00E-01	2.82E-07	8.03E-07	6.06E-11	
26	3	Surface	Thorium-230	pCi/g	7.10E+00	5.96E+03		1.28E+00	1.31E+02
26	3	Surface	Total PAH	mg/kg	1.19E+00	5.58E-07	4.13E-06	8.90E-09	
26	3	Surface	Uranium	mg/kg	9.88E+01	4.64E-05	1.32E-04	9.97E-09	
26	3	Surface	Uranium-234	pCi/g	4.63E+01	3.89E+04		8.37E+00	8.53E+02
26	3	Surface	Uranium-235	pCi/g	1.69E+00	1.42E+03		3.05E-01	3.11E+01
26	3	Surface	Uranium-238	pCi/g	5.19E+01	4.36E+04		9.36E+00	9.55E+02
26	3	Surface	Vanadium	mg/kg	3.77E+01	1.77E-05	2.62E-05	3.80E-09	
26	4	Surface	Aluminum	mg/kg	1.07E+04	5.01E-03	1.43E-02	1.08E-06	
26	4	Surface	Americium-241	pCi/g	1.27E+00	1.07E+03		2.30E-01	2.34E+01
26	4	Surface	Antimony	mg/kg	6.00E-01	2.82E-07	8.03E-07	6.06E-11	
26	4	Surface	Beryllium	mg/kg	6.91E-01	3.25E-07	1.29E-07	6.98E-11	
26	4	Surface	Cadmium	mg/kg	1.99E+00	9.35E-07	5.33E-08	2.01E-10	
26	4	Surface	Cesium-137	pCi/g	6.38E-01	5.36E+02		1.15E-01	1.17E+01
26	4	Surface	Chromium	mg/kg	8.57E+01	4.03E-05	1.15E-04	8.66E-09	
26	4	Surface	Cobalt-60	pCi/g	1.21E-03	1.02E+00		2.18E-04	2.23E-02
26	4	Surface	Copper	mg/kg	1.16E+02	5.44E-05	1.55E-04	1.17E-08	
26	4	Surface	Mercury	mg/kg	3.07E+00	1.44E-06	4.11E-06	9.31E-06	
26	4	Surface	Neptunium-237	pCi/g	1.36E+01	1.14E+04		2.45E+00	2.50E+02
26	4	Surface	Nickel	mg/kg	7.54E+01	3.54E-05	8.08E-05	7.62E-09	
26	4	Surface	PCB, Total	mg/kg	5.54E-01	2.60E-07	2.08E-06	9.50E-08	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
26	4	Surface	Plutonium-239/240	pCi/g	5.00E+00	4.20E+03		9.03E-01	9.21E+01
26	4	Surface	Technetium-99	pCi/g	5.97E+02	5.02E+05		1.08E+02	1.10E+04
26	4	Surface	Thorium-230	pCi/g	3.26E+01	2.74E+04		5.89E+00	6.01E+02
26	4	Surface	Total PAH	mg/kg	2.83E-02	1.33E-08	9.86E-08	2.12E-10	
26	4	Surface	Uranium	mg/kg	9.75E+02	4.58E-04	1.31E-03	9.84E-08	
26	4	Surface	Uranium-234	pCi/g	1.54E+02	1.30E+05		2.79E+01	2.84E+03
26	4	Surface	Uranium-235	pCi/g	1.08E+01	9.07E+03		1.95E+00	1.99E+02
26	4	Surface	Uranium-238	pCi/g					
47	1	Surface	Aluminum	mg/kg	1.50E+04	7.05E-03	2.01E-02	1.51E-06	
47	1	Surface	Antimony	mg/kg	9.00E-01	4.23E-07	1.20E-06	9.09E-11	
47	1	Surface	Arsenic	mg/kg	4.52E+01	2.12E-05	3.63E-05	4.56E-09	
47	1	Surface	Beryllium	mg/kg	7.00E-01	3.29E-07	1.31E-07	7.07E-11	
47	1	Surface	Cadmium	mg/kg	4.25E+00	2.00E-06	1.14E-07	4.29E-10	
47	1	Surface	Chromium	mg/kg	5.39E+01	2.53E-05	7.21E-05	5.44E-09	
47	1	Surface	Cobalt	mg/kg	1.43E+01	6.72E-06	1.91E-05	1.44E-09	
47	1	Surface	Iron	mg/kg	2.95E+04	1.39E-02	3.95E-02	2.98E-06	
47	1	Surface	Naphthalene	mg/kg	1.90E+00	8.92E-07	1.27E-05	6.44E-06	
47	1	Surface	Neptunium-237	pCi/g	1.15E-01	9.66E+01		2.08E-02	2.12E+00
47	1	Surface	Nickel	mg/kg	8.25E+01	3.87E-05	8.83E-05	8.33E-09	
47	1	Surface	PCB, Total	mg/kg	9.60E-01	4.51E-07	3.60E-06	1.65E-07	
47	1	Surface	Plutonium-239/240	pCi/g	4.11E+00	3.45E+03		7.42E-01	7.57E+01
47	1	Surface	Pyrene	mg/kg	1.11E+02	5.19E-05	3.85E-04	7.38E-06	
47	1	Surface	Thorium-230	pCi/g	4.11E+01	3.45E+04		7.42E+00	7.57E+02
47	1	Surface	Total PAH	mg/kg	5.41E+01	2.54E-05	1.88E-04	4.05E-07	
47	1	Surface	Uranium	mg/kg	3.23E+01	1.52E-05	4.33E-05	3.26E-09	
47	1	Surface	Uranium-234	pCi/g	6.85E+00	5.75E+03		1.24E+00	1.26E+02
47	1	Surface	Uranium-235	pCi/g	5.00E-01	4.20E+02		9.03E-02	9.21E+00
47	1	Surface	Uranium-238	pCi/g	7.93E+00	6.66E+03		1.43E+00	1.46E+02
74	1	Surface	PCB, Total	mg/kg	2.97E+00	1.40E-06	1.11E-05	5.10E-07	
74	1	Surface	Total PAH	mg/kg	3.16E+00	1.48E-06	1.10E-05	2.37E-08	
74	1	Surface	Uranium-234	pCi/g	7.55E+00	6.34E+03		1.36E+00	1.39E+02
74	1	Surface	Uranium-238	pCi/g	3.85E+01	3.23E+04		6.95E+00	7.09E+02
75	1	Surface	Cadmium	mg/kg	1.10E+00	5.17E-07	2.94E-08	1.11E-10	
75	1	Surface	Chromium	mg/kg	7.17E+01	3.37E-05	9.60E-05	7.24E-09	
75	1	Surface	Copper	mg/kg	3.15E+02	1.48E-04	4.22E-04	3.18E-08	
75	1	Surface	Nickel	mg/kg	8.87E+01	4.17E-05	9.50E-05	8.96E-09	
75	1	Surface	PCB, Total	mg/kg	2.30E-01	1.08E-07	8.62E-07	3.94E-08	
75	1	Surface	Total PAH	mg/kg	2.21E-01	1.04E-07	7.70E-07	1.66E-09	
76	1	Surface	Barium	mg/kg	2.69E+02	1.26E-04	3.60E-04	2.72E-08	
76	1	Surface	PCB, Total	mg/kg	2.60E-01	1.22E-07	9.74E-07	4.46E-08	
76	1	Surface	Total PAH	mg/kg	1.76E+00	8.26E-07	6.12E-06	1.32E-08	
76	1	Surface	Uranium-238	pCi/g	1.45E+00	1.22E+03		2.62E-01	2.67E+01
78	1	Surface	Cadmium	mg/kg	2.36E+00	1.11E-06	6.32E-08	2.38E-10	
78	1	Surface	Chromium	mg/kg	3.75E+01	1.76E-05	5.02E-05	3.79E-09	
78	1	Surface	Cobalt-60	pCi/g	5.91E-03	4.96E+00		1.07E-03	1.09E-01
78	1	Surface	Naphthalene	mg/kg	1.60E+01	7.51E-06	1.07E-04	5.42E-05	
78	1	Surface	Nickel	mg/kg	2.15E+01	1.01E-05	2.30E-05	2.17E-09	
78	1	Surface	PCB, Total	mg/kg	1.20E+01	5.64E-06	4.50E-05	2.06E-06	
78	1	Surface	Total PAH	mg/kg	3.91E+01	1.84E-05	1.36E-04	2.93E-07	
78	1	Surface	Uranium-235	pCi/g	2.64E-01	2.22E+02		4.77E-02	4.86E+00
78	1	Surface	Uranium-238	pCi/g	5.29E+00	4.44E+03		9.55E-01	9.74E+01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
80	1	Surface	Americium-241	pCi/g	6.40E+00	5.38E+03		1.16E+00	1.18E+02
80	1	Surface	Antimony	mg/kg	9.10E-01	4.27E-07	1.22E-06	9.19E-11	
80	1	Surface	Beryllium	mg/kg	7.80E-01	3.66E-07	1.46E-07	7.88E-11	
80	1	Surface	Chromium	mg/kg	1.65E+02	7.75E-05	2.21E-04	1.67E-08	
80	1	Surface	Mercury	mg/kg	4.50E-01	2.11E-07	6.02E-07	1.36E-06	
80	1	Surface	Neptunium-237	pCi/g	5.05E-01	4.24E+02		9.12E-02	9.30E+00
80	1	Surface	PCB, Total	mg/kg	1.46E+01	6.87E-06	5.48E-05	2.51E-06	
80	1	Surface	Thorium-230	pCi/g	4.40E+00	3.70E+03		7.95E-01	8.10E+01
80	1	Surface	Total PAH	mg/kg	1.42E-01	6.65E-08	4.93E-07	1.06E-09	
80	1	Surface	Uranium	mg/kg	5.72E+03	2.69E-03	7.66E-03	5.78E-07	
80	1	Surface	Uranium-234	pCi/g	2.29E+02	1.92E+05		4.14E+01	4.22E+03
80	1	Surface	Uranium-235	pCi/g	3.00E+01	2.52E+04		5.42E+00	5.52E+02
80	1	Surface	Uranium-238	pCi/g	1.92E+03	1.61E+06		3.47E+02	3.54E+04
81	1	Surface	Aluminum	mg/kg	9.57E+03	4.50E-03	1.28E-02	9.67E-07	
81	1	Surface	Arsenic	mg/kg	1.03E+01	4.81E-06	8.23E-06	1.03E-09	
81	1	Surface	Beryllium	mg/kg	7.57E-01	3.56E-07	1.42E-07	7.64E-11	
81	1	Surface	Chromium	mg/kg	8.62E+01	4.05E-05	1.15E-04	8.70E-09	
81	1	Surface	Mercury	mg/kg	8.33E+00	3.91E-06	1.12E-05	2.52E-05	
81	1	Surface	Nickel	mg/kg	7.29E+01	3.42E-05	7.80E-05	7.36E-09	
81	1	Surface	PCB, Total	mg/kg	1.60E+02	7.51E-05	5.99E-04	2.74E-05	
81	1	Surface	Silver	mg/kg	2.70E+00	1.27E-06	2.89E-06	2.73E-10	
81	1	Surface	Total PAH	mg/kg	5.53E-01	2.60E-07	1.92E-06	4.14E-09	
81	1	Surface	Uranium	mg/kg	6.50E+03	3.05E-03	8.70E-03	6.56E-07	
81	1	Surface	Uranium-238	pCi/g	2.29E+00	1.92E+03		4.13E-01	4.21E+01
99	1	Surface	Chromium	mg/kg	5.51E+01	2.59E-05	7.38E-05	5.56E-09	
99	1	Surface	Cobalt-60	pCi/g	1.19E-02	1.00E+01		2.15E-03	2.19E-01
99	1	Surface	Mercury	mg/kg	9.53E+00	4.48E-06	1.28E-05	2.89E-05	
99	1	Surface	Nickel	mg/kg	7.02E+01	3.30E-05	7.52E-05	7.09E-09	
99	1	Surface	Silver	mg/kg	1.03E+01	4.84E-06	1.10E-05	1.04E-09	
99	1	Surface	Uranium-238	pCi/g	9.45E-01	7.94E+02		1.71E-01	1.74E+01
138	1	Surface	Antimony	mg/kg	5.39E+00	2.53E-06	7.22E-06	5.45E-10	
138	1	Surface	Arsenic	mg/kg	1.06E+01	4.99E-06	8.53E-06	1.07E-09	
138	1	Surface	Cadmium	mg/kg	5.42E+00	2.55E-06	1.45E-07	5.47E-10	
138	1	Surface	Chromium	mg/kg	5.39E+01	2.53E-05	7.21E-05	5.44E-09	
138	1	Surface	Mercury	mg/kg	1.30E+01	6.10E-06	1.74E-05	3.93E-05	
138	1	Surface	Nickel	mg/kg	7.04E+01	3.31E-05	7.54E-05	7.10E-09	
138	1	Surface	PCB, Total	mg/kg	5.00E-01	2.35E-07	1.87E-06	8.57E-08	
138	1	Surface	Silver	mg/kg	1.01E+01	4.74E-06	1.08E-05	1.02E-09	
138	1	Surface	Total PAH	mg/kg	9.74E-02	4.58E-08	3.39E-07	7.30E-10	
138	2	Surface	Nickel	mg/kg	7.99E+01	3.75E-05	8.55E-05	8.06E-09	
138	2	Surface	PCB, Total	mg/kg	9.20E-02	4.32E-08	3.45E-07	1.58E-08	
138	2	Surface	Silver	mg/kg	1.04E+01	4.90E-06	1.12E-05	1.05E-09	
138	2	Surface	Total PAH	mg/kg	3.84E-02	1.80E-08	1.34E-07	2.88E-10	
153	1	Surface	PCB, Total	mg/kg	5.09E-01	2.39E-07	1.91E-06	8.73E-08	
153	1	Surface	Total PAH	mg/kg	8.69E-02	4.08E-08	3.02E-07	6.51E-10	
154	1	Surface	Arsenic	mg/kg	1.52E+01	7.12E-06	1.22E-05	1.53E-09	
154	1	Surface	Chromium	mg/kg	4.28E+01	2.01E-05	5.72E-05	4.32E-09	
154	1	Surface	Nickel	mg/kg	9.89E+01	4.64E-05	1.06E-04	9.98E-09	
154	1	Surface	PCB, Total	mg/kg	3.20E+00	1.50E-06	1.20E-05	5.49E-07	
154	1	Surface	Total PAH	mg/kg	1.04E+00	4.89E-07	3.62E-06	7.80E-09	
154	1	Surface	Uranium	mg/kg	3.82E+01	1.79E-05	5.11E-05	3.85E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
154	1	Surface	Uranium-238	pCi/g	3.06E+00	2.57E+03		5.53E-01	5.63E+01
154	2	Surface	PCB, Total	mg/kg	4.00E-01	1.88E-07	1.50E-06	6.86E-08	
155	1	Surface	Antimony	mg/kg	3.65E+00	1.72E-06	4.89E-06	3.69E-10	
155	1	Surface	Chromium	mg/kg	3.47E+01	1.63E-05	4.64E-05	3.50E-09	
155	1	Surface	Neptunium-237	pCi/g	1.03E-01	8.65E+01		1.86E-02	1.90E+00
155	1	Surface	Nickel	mg/kg	7.65E+01	3.59E-05	8.19E-05	7.73E-09	
155	1	Surface	PCB, Total	mg/kg	9.20E+00	4.32E-06	3.45E-05	1.58E-06	
155	1	Surface	Silver	mg/kg	1.11E+01	5.20E-06	1.19E-05	1.12E-09	
156	1	Surface	Chromium	mg/kg	4.90E+01	2.30E-05	6.56E-05	4.95E-09	
156	1	Surface	Manganese	mg/kg	2.83E+03	1.33E-03	3.03E-03	2.86E-07	
156	1	Surface	Mercury	mg/kg	9.87E+00	4.64E-06	1.32E-05	2.99E-05	
156	1	Surface	Nickel	mg/kg	6.16E+01	2.89E-05	6.60E-05	6.22E-09	
156	1	Surface	PCB, Total	mg/kg	3.00E-01	1.41E-07	1.12E-06	5.14E-08	
156	1	Surface	Total PAH	mg/kg	8.26E-02	3.88E-08	2.87E-07	6.19E-10	
156	1	Surface	Uranium	mg/kg	2.32E+01	1.09E-05	3.10E-05	2.34E-09	
156	1	Surface	Uranium-238	pCi/g	2.19E+00	1.84E+03		3.95E-01	4.03E+01
158	1	Surface	Antimony	mg/kg	5.23E-01	2.46E-07	7.00E-07	5.28E-11	
158	1	Surface	Arsenic	mg/kg	1.01E+01	4.75E-06	8.13E-06	1.02E-09	
158	1	Surface	Barium	mg/kg	2.19E+02	1.03E-04	2.93E-04	2.21E-08	
158	1	Surface	Chromium	mg/kg	6.07E+01	2.85E-05	8.13E-05	6.13E-09	
158	1	Surface	Cobalt	mg/kg	1.62E+01	7.62E-06	2.17E-05	1.64E-09	
158	1	Surface	Manganese	mg/kg	9.91E+02	4.65E-04	1.06E-03	1.00E-07	
158	1	Surface	Mercury	mg/kg	1.05E+01	4.91E-06	1.40E-05	3.17E-05	
158	1	Surface	Nickel	mg/kg	7.28E+01	3.42E-05	7.80E-05	7.35E-09	
158	1	Surface	Thallium	mg/kg	3.12E-01	1.47E-07	4.18E-07	3.15E-11	
158	1	Surface	Total PAH	mg/kg	3.69E-01	1.73E-07	1.28E-06	2.77E-09	
158	1	Surface	Uranium	mg/kg	2.03E+01	9.53E-06	2.72E-05	2.05E-09	
158	1	Surface	Uranium-235	pCi/g	1.63E-01	1.37E+02		2.94E-02	3.00E+00
158	1	Surface	Uranium-238	pCi/g	3.79E+00	3.18E+03		6.84E-01	6.98E+01
160	1	Surface	Antimony	mg/kg	6.80E-01	3.19E-07	9.10E-07	6.87E-11	
160	1	Surface	Total PAH	mg/kg	5.29E-02	2.48E-08	1.84E-07	3.97E-10	
163	1	Surface	Chromium	mg/kg	4.94E+01	2.32E-05	6.62E-05	4.99E-09	
163	1	Surface	Total PAH	mg/kg	1.63E-01	7.66E-08	5.67E-07	1.22E-09	
165	1	Surface	Antimony	mg/kg	2.20E+00	1.03E-06	2.94E-06	2.22E-10	
165	1	Surface	Arsenic	mg/kg	6.35E+01	2.98E-05	5.10E-05	6.41E-09	
165	1	Surface	Barium	mg/kg	5.84E+02	2.74E-04	7.82E-04	5.90E-08	
165	1	Surface	Beryllium	mg/kg	6.82E-01	3.20E-07	1.28E-07	6.89E-11	
165	1	Surface	Cesium-137	pCi/g	3.47E+00	2.92E+03		6.27E-01	6.39E+01
165	1	Surface	Chromium	mg/kg	3.74E+01	1.76E-05	5.00E-05	3.77E-09	
165	1	Surface	Mercury	mg/kg	3.78E-01	1.78E-07	5.06E-07	1.14E-06	
165	1	Surface	Naphthalene	mg/kg	1.61E+00	7.57E-07	1.08E-05	5.46E-06	
165	1	Surface	Neptunium-237	pCi/g	4.26E-01	3.58E+02		7.69E-02	7.84E+00
165	1	Surface	Nickel	mg/kg	3.47E+01	1.63E-05	3.71E-05	3.50E-09	
165	1	Surface	PCB, Total	mg/kg	8.27E+00	3.88E-06	3.10E-05	1.42E-06	
165	1	Surface	Plutonium-239/240	pCi/g	2.81E+00	2.36E+03		5.07E-01	5.16E+01
165	1	Surface	Silver	mg/kg	3.09E+01	1.45E-05	3.31E-05	3.12E-09	
165	1	Surface	Thorium-230	pCi/g	6.02E+00	5.05E+03		1.09E+00	1.11E+02
165	1	Surface	Total PAH	mg/kg	1.87E+00	8.77E-07	6.50E-06	1.40E-08	
165	1	Surface	Uranium	mg/kg	1.08E+02	5.05E-05	1.44E-04	1.09E-08	
165	1	Surface	Uranium-234	pCi/g	5.76E+01	4.83E+04		1.04E+01	1.06E+03
165	1	Surface	Uranium-235	pCi/g	2.05E+00	1.72E+03		3.69E-01	3.77E+01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
165	1	Surface	Uranium-238	pCi/g	6.41E+01	5.38E+04		1.16E+01	1.18E+03
169	1	Surface	Aluminum	mg/kg	1.42E+04	6.67E-03	1.90E-02	1.43E-06	
169	1	Surface	Antimony	mg/kg	1.30E+00	6.11E-07	1.74E-06	1.31E-10	
169	1	Surface	Arsenic	mg/kg	2.03E+01	9.53E-06	1.63E-05	2.05E-09	
169	1	Surface	Beryllium	mg/kg	8.00E-01	3.76E-07	1.50E-07	8.08E-11	
169	1	Surface	Chromium	mg/kg	2.15E+02	1.01E-04	2.88E-04	2.17E-08	
169	1	Surface	Copper	mg/kg	3.74E+02	1.76E-04	5.01E-04	3.78E-08	
169	1	Surface	Iron	mg/kg	4.16E+04	1.95E-02	5.56E-02	4.20E-06	
169	1	Surface	Mercury	mg/kg	7.87E+00	3.70E-06	1.05E-05	2.38E-05	
169	1	Surface	Nickel	mg/kg	5.49E+02	2.58E-04	5.88E-04	5.54E-08	
169	1	Surface	PCB, Total	mg/kg	1.00E+01	4.70E-06	3.75E-05	1.71E-06	
169	1	Surface	Thallium	mg/kg	4.60E-01	2.16E-07	6.16E-07	4.64E-11	
169	1	Surface	Total PAH	mg/kg	4.59E+00	2.15E-06	1.60E-05	3.44E-08	
169	1	Surface	Uranium	mg/kg	5.03E+01	2.36E-05	6.73E-05	5.08E-09	
169	1	Surface	Uranium-234	pCi/g	6.55E+00	5.50E+03		1.18E+00	1.21E+02
169	1	Surface	Uranium-235	pCi/g	4.60E-01	3.86E+02		8.31E-02	8.47E+00
169	1	Surface	Uranium-238	pCi/g	8.12E+00	6.82E+03		1.47E+00	1.49E+02
170	1	Surface	Neptunium-237	pCi/g	1.15E-01	9.66E+01		2.08E-02	2.12E+00
170	1	Surface	Uranium-238	pCi/g	1.53E+00	1.29E+03		2.76E-01	2.82E+01
176	1	Surface	Arsenic	mg/kg	4.86E+01	2.28E-05	3.90E-05	4.90E-09	
176	1	Surface	Chromium	mg/kg	4.27E+01	2.01E-05	5.72E-05	4.32E-09	
176	1	Surface	Nickel	mg/kg	1.07E+02	5.03E-05	1.15E-04	1.08E-08	
176	1	Surface	Uranium	mg/kg	2.21E+01	1.04E-05	2.96E-05	2.23E-09	
180	1	Surface	Antimony	mg/kg	5.80E-01	2.72E-07	7.76E-07	5.86E-11	
180	1	Surface	Arsenic	mg/kg	7.48E+01	3.51E-05	6.01E-05	7.55E-09	
180	1	Surface	Chromium	mg/kg	5.54E+01	2.60E-05	7.42E-05	5.60E-09	
180	1	Surface	Mercury	mg/kg	8.28E+00	3.89E-06	1.11E-05	2.51E-05	
180	1	Surface	Nickel	mg/kg	8.77E+01	4.12E-05	9.39E-05	8.85E-09	
180	2	Surface	Antimony	mg/kg	4.58E-01	2.15E-07	6.13E-07	4.62E-11	
180	2	Surface	Arsenic	mg/kg	1.27E+01	5.94E-06	1.02E-05	1.28E-09	
180	2	Surface	Chromium	mg/kg	4.46E+01	2.10E-05	5.97E-05	4.51E-09	
180	2	Surface	Nickel	mg/kg	8.42E+01	3.95E-05	9.01E-05	8.50E-09	
180	2	Surface	Total PAH	mg/kg	9.19E-02	4.31E-08	3.20E-07	6.88E-10	
180	3	Surface	Arsenic	mg/kg	1.34E+01	6.27E-06	1.07E-05	1.35E-09	
180	3	Surface	Chromium	mg/kg	4.69E+01	2.20E-05	6.28E-05	4.74E-09	
180	3	Surface	Nickel	mg/kg	6.77E+01	3.18E-05	7.25E-05	6.84E-09	
180	3	Surface	Silver	mg/kg	1.14E+01	5.35E-06	1.22E-05	1.15E-09	
180	4	Surface	Arsenic	mg/kg	1.15E+01	5.42E-06	9.26E-06	1.16E-09	
180	4	Surface	Barium	mg/kg	2.13E+02	1.00E-04	2.85E-04	2.15E-08	
180	4	Surface	Beryllium	mg/kg	1.60E+00	7.51E-07	3.00E-07	1.62E-10	
180	4	Surface	Chromium	mg/kg	6.00E+01	2.82E-05	8.03E-05	6.06E-09	
180	4	Surface	Iron	mg/kg	1.54E+04	7.22E-03	2.06E-02	1.55E-06	
180	4	Surface	Manganese	mg/kg	7.09E+02	3.33E-04	7.59E-04	7.16E-08	
180	4	Surface	Nickel	mg/kg	6.46E+01	3.03E-05	6.92E-05	6.52E-09	
180	4	Surface	Silver	mg/kg	9.68E+00	4.55E-06	1.04E-05	9.77E-10	
180	4	Surface	Total PAH	mg/kg	2.15E-02	1.01E-08	7.48E-08	1.61E-10	
180	4	Surface	Vanadium	mg/kg	4.85E+01	2.28E-05	3.38E-05	4.90E-09	
181	1	Surface	Chromium	mg/kg	2.29E+01	1.07E-05	3.06E-05	2.31E-09	
181	1	Surface	Thallium	mg/kg	3.50E+00	1.64E-06	4.68E-06	3.53E-10	
181	1	Surface	Total PAH	mg/kg	3.43E-02	1.61E-08	1.19E-07	2.57E-10	
194	1	Surface	Antimony	mg/kg	1.50E+00	7.05E-07	2.01E-06	1.51E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	1	Surface	Chromium	mg/kg	3.87E+01	1.82E-05	5.18E-05	3.91E-09	
194	1	Surface	Mercury	mg/kg	6.71E+00	3.15E-06	8.98E-06	2.03E-05	
194	1	Surface	Nickel	mg/kg	5.84E+01	2.74E-05	6.26E-05	5.90E-09	
194	1	Surface	Silver	mg/kg	1.09E+01	5.13E-06	1.17E-05	1.10E-09	
194	2	Surface	Chromium	mg/kg	5.96E+01	2.80E-05	7.98E-05	6.02E-09	
194	2	Surface	Silver	mg/kg	1.31E+01	6.17E-06	1.41E-05	1.33E-09	
194	2	Surface	Uranium	mg/kg	2.28E+01	1.07E-05	3.05E-05	2.30E-09	
194	2	Surface	Uranium-238	pCi/g	1.42E+00	1.19E+03		2.56E-01	2.61E+01
194	3	Surface	Antimony	mg/kg	6.90E-01	3.24E-07	9.24E-07	6.97E-11	
194	3	Surface	Arsenic	mg/kg	1.46E+01	6.88E-06	1.18E-05	1.48E-09	
194	3	Surface	Chromium	mg/kg	3.90E+01	1.83E-05	5.22E-05	3.94E-09	
194	3	Surface	Nickel	mg/kg	6.40E+01	3.01E-05	6.86E-05	6.47E-09	
194	3	Surface	Total PAH	mg/kg	3.93E-02	1.85E-08	1.37E-07	2.95E-10	
194	3	Surface	Uranium-238	pCi/g	1.28E+00	1.08E+03		2.32E-01	2.36E+01
194	4	Surface	Chromium	mg/kg	4.84E+01	2.27E-05	6.48E-05	4.89E-09	
194	4	Surface	Mercury	mg/kg	8.92E+00	4.19E-06	1.19E-05	2.70E-05	
194	4	Surface	Nickel	mg/kg	6.91E+01	3.24E-05	7.40E-05	6.97E-09	
194	4	Surface	Silver	mg/kg	1.18E+01	5.53E-06	1.26E-05	1.19E-09	
194	4	Surface	Total PAH	mg/kg	7.30E-02	3.43E-08	2.54E-07	5.47E-10	
194	4	Surface	Uranium-238	pCi/g	1.73E+00	1.45E+03		3.12E-01	3.19E+01
194	5	Surface	Chromium	mg/kg	4.58E+01	2.15E-05	6.13E-05	4.62E-09	
194	5	Surface	Mercury	mg/kg	8.69E+00	4.08E-06	1.16E-05	2.63E-05	
194	5	Surface	Nickel	mg/kg	7.54E+01	3.54E-05	8.08E-05	7.62E-09	
194	5	Surface	Silver	mg/kg	1.25E+01	5.85E-06	1.33E-05	1.26E-09	
194	5	Surface	Total PAH	mg/kg	2.37E-02	1.11E-08	8.25E-08	1.78E-10	
194	5	Surface	Uranium-238	pCi/g	1.38E+00	1.16E+03		2.49E-01	2.54E+01
194	6	Surface	Chromium	mg/kg	3.70E+01	1.74E-05	4.95E-05	3.74E-09	
194	6	Surface	Manganese	mg/kg	1.08E+03	5.07E-04	1.16E-03	1.09E-07	
194	6	Surface	Nickel	mg/kg	8.06E+01	3.79E-05	8.63E-05	8.14E-09	
194	6	Surface	Silver	mg/kg	9.89E+00	4.65E-06	1.06E-05	9.99E-10	
194	6	Surface	Uranium-238	pCi/g	1.32E+00	1.11E+03		2.38E-01	2.43E+01
194	7	Surface	Chromium	mg/kg	5.32E+01	2.50E-05	7.12E-05	5.37E-09	
194	7	Surface	Nickel	mg/kg	7.71E+01	3.62E-05	8.26E-05	7.79E-09	
194	7	Surface	Silver	mg/kg	1.25E+01	5.87E-06	1.34E-05	1.26E-09	
194	8	Surface	Chromium	mg/kg	5.36E+01	2.52E-05	7.17E-05	5.41E-09	
194	8	Surface	Manganese	mg/kg	8.00E+02	3.76E-04	8.57E-04	8.08E-08	
194	8	Surface	Total PAH	mg/kg	4.85E-01	2.28E-07	1.69E-06	3.63E-09	
194	8	Surface	Uranium-238	pCi/g	1.39E+00	1.17E+03		2.51E-01	2.56E+01
194	9	Surface	Arsenic	mg/kg	1.14E+01	5.36E-06	9.17E-06	1.15E-09	
194	9	Surface	Chromium	mg/kg	5.17E+01	2.43E-05	6.91E-05	5.21E-09	
194	10	Surface	Arsenic	mg/kg	1.22E+01	5.71E-06	9.77E-06	1.23E-09	
194	10	Surface	Cesium-137	pCi/g	5.81E-01	4.88E+02		1.05E-01	1.07E+01
194	10	Surface	Chromium	mg/kg	3.63E+01	1.70E-05	4.86E-05	3.66E-09	
194	10	Surface	Nickel	mg/kg	7.60E+01	3.57E-05	8.14E-05	7.67E-09	
194	10	Surface	Total PAH	mg/kg	2.57E-01	1.21E-07	8.95E-07	1.93E-09	
194	10	Surface	Uranium-238	pCi/g	1.49E+00	1.25E+03		2.69E-01	2.74E+01
194	11	Surface	Chromium	mg/kg	3.27E+01	1.53E-05	4.37E-05	3.30E-09	
194	11	Surface	Mercury	mg/kg	8.09E+00	3.80E-06	1.08E-05	2.45E-05	
194	11	Surface	Nickel	mg/kg	1.01E+02	4.73E-05	1.08E-04	1.02E-08	
194	11	Surface	PCB, Total	mg/kg	8.40E-02	3.95E-08	3.15E-07	1.44E-08	
194	11	Surface	Silver	mg/kg	1.33E+01	6.24E-06	1.42E-05	1.34E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	11	Surface	Total PAH	mg/kg	7.95E-02	3.74E-08	2.77E-07	5.96E-10	
194	12	Surface	Chromium	mg/kg	6.34E+01	2.98E-05	8.48E-05	6.40E-09	
194	12	Surface	Nickel	mg/kg	7.86E+01	3.69E-05	8.42E-05	7.94E-09	
194	12	Surface	Silver	mg/kg	1.20E+01	5.63E-06	1.28E-05	1.21E-09	
194	12	Surface	Total PAH	mg/kg	8.91E-01	4.19E-07	3.10E-06	6.68E-09	
194	13	Surface	Chromium	mg/kg	4.77E+01	2.24E-05	6.38E-05	4.81E-09	
194	13	Surface	Nickel	mg/kg	6.03E+01	2.83E-05	6.46E-05	6.09E-09	
194	13	Surface	Total PAH	mg/kg	9.13E-02	4.29E-08	3.18E-07	6.85E-10	
194	14	Surface	Chromium	mg/kg	5.21E+01	2.45E-05	6.98E-05	5.26E-09	
194	14	Surface	Mercury	mg/kg	8.14E+00	3.82E-06	1.09E-05	2.47E-05	
194	15	Surface	Chromium	mg/kg	5.33E+01	2.50E-05	7.14E-05	5.38E-09	
194	15	Surface	Silver	mg/kg	1.03E+01	4.84E-06	1.10E-05	1.04E-09	
194	16	Surface	Antimony	mg/kg	7.40E-01	3.48E-07	9.91E-07	7.47E-11	
194	16	Surface	Arsenic	mg/kg	1.15E+01	5.41E-06	9.25E-06	1.16E-09	
194	16	Surface	Beryllium	mg/kg	8.70E-01	4.09E-07	1.63E-07	8.78E-11	
194	16	Surface	Chromium	mg/kg	5.32E+01	2.50E-05	7.13E-05	5.38E-09	
194	16	Surface	Nickel	mg/kg	7.20E+01	3.38E-05	7.71E-05	7.27E-09	
194	16	Surface	Thallium	mg/kg	6.30E-01	2.96E-07	8.43E-07	6.36E-11	
194	16	Surface	Vanadium	mg/kg	4.11E+01	1.93E-05	2.86E-05	4.15E-09	
194	17	Surface	Arsenic	mg/kg	1.16E+01	5.42E-06	9.28E-06	1.17E-09	
194	17	Surface	Cadmium	mg/kg	1.10E+00	5.17E-07	2.94E-08	1.11E-10	
194	17	Surface	Chromium	mg/kg	4.65E+01	2.18E-05	6.22E-05	4.69E-09	
194	17	Surface	Total PAH	mg/kg	1.59E-01	7.45E-08	5.52E-07	1.19E-09	
194	18	Surface	Arsenic	mg/kg	1.06E+01	4.96E-06	8.49E-06	1.07E-09	
194	18	Surface	Beryllium	mg/kg	7.40E-01	3.48E-07	1.39E-07	7.47E-11	
194	18	Surface	Chromium	mg/kg	6.85E+01	3.22E-05	9.17E-05	6.91E-09	
194	18	Surface	Nickel	mg/kg	5.78E+01	2.71E-05	6.19E-05	5.83E-09	
194	19	Surface	Arsenic	mg/kg	1.07E+01	5.02E-06	8.59E-06	1.08E-09	
194	19	Surface	Chromium	mg/kg	4.84E+01	2.27E-05	6.47E-05	4.88E-09	
194	19	Surface	Nickel	mg/kg	5.84E+01	2.74E-05	6.25E-05	5.89E-09	
194	20	Surface	Arsenic	mg/kg	1.18E+01	5.56E-06	9.51E-06	1.20E-09	
194	20	Surface	Barium	mg/kg	3.26E+02	1.53E-04	4.36E-04	3.29E-08	
194	20	Surface	Beryllium	mg/kg	1.10E+00	5.17E-07	2.06E-07	1.11E-10	
194	20	Surface	Chromium	mg/kg	5.24E+01	2.46E-05	7.01E-05	5.29E-09	
194	20	Surface	Cobalt	mg/kg	2.11E+01	9.91E-06	2.82E-05	2.13E-09	
194	20	Surface	Manganese	mg/kg	2.29E+03	1.08E-03	2.46E-03	2.32E-07	
194	20	Surface	Mercury	mg/kg	7.28E+00	3.42E-06	9.74E-06	2.21E-05	
194	20	Surface	Nickel	mg/kg	6.57E+01	3.09E-05	7.04E-05	6.63E-09	
194	20	Surface	Silver	mg/kg	1.22E+01	5.74E-06	1.31E-05	1.23E-09	
194	20	Surface	Total PAH	mg/kg	3.10E-02	1.46E-08	1.08E-07	2.32E-10	
194	20	Surface	Vanadium	mg/kg	3.81E+01	1.79E-05	2.65E-05	3.85E-09	
194	21	Surface	Antimony	mg/kg	9.30E-01	4.37E-07	1.24E-06	9.39E-11	
194	21	Surface	Chromium	mg/kg	5.51E+01	2.59E-05	7.37E-05	5.56E-09	
194	21	Surface	Mercury	mg/kg	6.62E+00	3.11E-06	8.86E-06	2.01E-05	
194	21	Surface	Nickel	mg/kg	7.01E+01	3.29E-05	7.51E-05	7.08E-09	
194	21	Surface	Thallium	mg/kg	6.40E-01	3.01E-07	8.57E-07	6.46E-11	
194	22	Surface	Chromium	mg/kg	4.90E+01	2.30E-05	6.56E-05	4.95E-09	
194	22	Surface	Manganese	mg/kg	8.19E+02	3.85E-04	8.77E-04	8.27E-08	
194	22	Surface	PCB, Total	mg/kg	1.09E+01	5.13E-06	4.09E-05	1.87E-06	
194	23	Surface	Arsenic	mg/kg	1.16E+01	5.42E-06	9.28E-06	1.17E-09	
194	23	Surface	Chromium	mg/kg	6.60E+01	3.10E-05	8.83E-05	6.66E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	23	Surface	Iron	mg/kg	1.83E+04	8.59E-03	2.45E-02	1.85E-06	
194	23	Surface	Nickel	mg/kg	8.77E+01	4.12E-05	9.39E-05	8.85E-09	
194	23	Surface	Silver	mg/kg	1.15E+01	5.39E-06	1.23E-05	1.16E-09	
194	24	Surface	Chromium	mg/kg	5.02E+01	2.36E-05	6.72E-05	5.07E-09	
194	24	Surface	Nickel	mg/kg	7.08E+01	3.32E-05	7.58E-05	7.15E-09	
194	24	Surface	Total PAH	mg/kg	2.28E-02	1.07E-08	7.93E-08	1.71E-10	
194	25	Surface	Barium	mg/kg	3.00E+02	1.41E-04	4.02E-04	3.03E-08	
194	25	Surface	Chromium	mg/kg	6.13E+01	2.88E-05	8.20E-05	6.18E-09	
194	25	Surface	Manganese	mg/kg	9.96E+02	4.68E-04	1.07E-03	1.01E-07	
194	25	Surface	Nickel	mg/kg	6.33E+01	2.97E-05	6.78E-05	6.39E-09	
194	25	Surface	Total PAH	mg/kg	2.06E-02	9.68E-09	7.17E-08	1.54E-10	
194	26	Surface	Beryllium	mg/kg	7.00E-01	3.29E-07	1.31E-07	7.07E-11	
194	26	Surface	Chromium	mg/kg	4.18E+01	1.96E-05	5.60E-05	4.22E-09	
194	26	Surface	Silver	mg/kg	1.03E+01	4.82E-06	1.10E-05	1.04E-09	
194	26	Surface	Thallium	mg/kg	3.90E-01	1.83E-07	5.22E-07	3.94E-11	
194	27	Surface	Chromium	mg/kg	5.22E+01	2.45E-05	6.98E-05	5.27E-09	
194	27	Surface	Nickel	mg/kg	6.55E+01	3.08E-05	7.01E-05	6.61E-09	
194	27	Surface	Silver	mg/kg	1.01E+01	4.75E-06	1.08E-05	1.02E-09	
194	28	Surface	Arsenic	mg/kg	1.20E+01	5.65E-06	9.66E-06	1.21E-09	
194	28	Surface	Beryllium	mg/kg	7.10E-01	3.33E-07	1.33E-07	7.17E-11	
194	28	Surface	Chromium	mg/kg	6.07E+01	2.85E-05	8.13E-05	6.13E-09	
194	28	Surface	Manganese	mg/kg	1.14E+03	5.34E-04	1.22E-03	1.15E-07	
194	28	Surface	Nickel	mg/kg	6.95E+01	3.26E-05	7.44E-05	7.01E-09	
194	28	Surface	Silver	mg/kg	1.08E+01	5.07E-06	1.16E-05	1.09E-09	
194	28	Surface	Vanadium	mg/kg	4.06E+01	1.91E-05	2.83E-05	4.10E-09	
194	29	Surface	Antimony	mg/kg	7.10E-01	3.33E-07	9.50E-07	7.17E-11	
194	29	Surface	Chromium	mg/kg	5.06E+01	2.37E-05	6.77E-05	5.10E-09	
194	29	Surface	Nickel	mg/kg	6.51E+01	3.06E-05	6.97E-05	6.57E-09	
194	29	Surface	Silver	mg/kg	9.77E+00	4.59E-06	1.05E-05	9.86E-10	
194	30	Surface	Chromium	mg/kg	5.66E+01	2.66E-05	7.57E-05	5.71E-09	
194	30	Surface	Mercury	mg/kg	8.80E+00	4.13E-06	1.18E-05	2.67E-05	
194	30	Surface	Nickel	mg/kg	6.99E+01	3.28E-05	7.48E-05	7.05E-09	
194	30	Surface	Silver	mg/kg	9.76E+00	4.58E-06	1.05E-05	9.85E-10	
194	31	Surface	Cesium-137	pCi/g	5.70E-01	4.79E+02		1.03E-01	1.05E+01
194	31	Surface	Uranium-238	pCi/g	1.72E+00	1.44E+03		3.11E-01	3.17E+01
195	1	Surface	Chromium	mg/kg	6.33E+01	2.97E-05	8.47E-05	6.39E-09	
195	1	Surface	Nickel	mg/kg	7.02E+01	3.30E-05	7.52E-05	7.09E-09	
195	1	Surface	Silver	mg/kg	9.37E+00	4.40E-06	1.00E-05	9.46E-10	
195	2	Surface	Chromium	mg/kg	4.52E+01	2.12E-05	6.05E-05	4.56E-09	
195	2	Surface	Silver	mg/kg	9.48E+00	4.45E-06	1.02E-05	9.57E-10	
195	2	Surface	Total PAH	mg/kg	2.68E-02	1.26E-08	9.33E-08	2.01E-10	
195	3	Surface	Chromium	mg/kg	5.03E+01	2.36E-05	6.73E-05	5.08E-09	
195	3	Surface	Nickel	mg/kg	5.22E+01	2.45E-05	5.58E-05	5.27E-09	
195	3	Surface	Total PAH	mg/kg	4.06E-02	1.91E-08	1.41E-07	3.04E-10	
195	4	Surface	Chromium	mg/kg	5.29E+01	2.48E-05	7.08E-05	5.34E-09	
195	4	Surface	Nickel	mg/kg	6.23E+01	2.93E-05	6.67E-05	6.29E-09	
195	5	Surface	Chromium	mg/kg	5.74E+01	2.70E-05	7.68E-05	5.80E-09	
195	5	Surface	Nickel	mg/kg	8.11E+01	3.81E-05	8.68E-05	8.19E-09	
195	5	Surface	Total PAH	mg/kg	2.40E-02	1.13E-08	8.35E-08	1.80E-10	
195	6	Surface	Chromium	mg/kg	4.45E+01	2.09E-05	5.96E-05	4.50E-09	
195	6	Surface	Nickel	mg/kg	8.71E+01	4.09E-05	9.33E-05	8.79E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
195	6	Surface	Total PAH	mg/kg	2.48E-01	1.16E-07	8.62E-07	1.86E-09	
195	7	Surface	Chromium	mg/kg	4.93E+01	2.31E-05	6.59E-05	4.97E-09	
195	7	Surface	Silver	mg/kg	8.06E+00	3.79E-06	8.63E-06	8.14E-10	
195	8	Surface	Arsenic	mg/kg	1.16E+01	5.43E-06	9.28E-06	1.17E-09	
195	8	Surface	Beryllium	mg/kg	7.40E-01	3.48E-07	1.39E-07	7.47E-11	
195	8	Surface	Chromium	mg/kg	6.79E+01	3.19E-05	9.09E-05	6.86E-09	
195	8	Surface	Cobalt	mg/kg	1.82E+01	8.55E-06	2.44E-05	1.84E-09	
195	8	Surface	Nickel	mg/kg	7.01E+01	3.29E-05	7.51E-05	7.08E-09	
195	8	Surface	Total PAH	mg/kg	2.16E-01	1.01E-07	7.50E-07	1.62E-09	
195	8	Surface	Vanadium	mg/kg	4.04E+01	1.90E-05	2.81E-05	4.08E-09	
195	9	Surface	Chromium	mg/kg	6.08E+01	2.86E-05	8.14E-05	6.14E-09	
195	9	Surface	Nickel	mg/kg	7.93E+01	3.72E-05	8.49E-05	8.00E-09	
195	10	Surface	Chromium	mg/kg	4.51E+01	2.12E-05	6.03E-05	4.55E-09	
195	10	Surface	Nickel	mg/kg	7.40E+01	3.48E-05	7.93E-05	7.47E-09	
195	10	Surface	Silver	mg/kg	1.31E+01	6.16E-06	1.40E-05	1.32E-09	
195	11	Surface	Aluminum	mg/kg	2.81E+04	1.32E-02	3.76E-02	2.84E-06	
195	11	Surface	Arsenic	mg/kg	1.35E+01	6.32E-06	1.08E-05	1.36E-09	
195	11	Surface	Barium	mg/kg	4.53E+02	2.13E-04	6.06E-04	4.57E-08	
195	11	Surface	Chromium	mg/kg	5.05E+01	2.37E-05	6.76E-05	5.10E-09	
195	11	Surface	Cobalt	mg/kg	2.77E+01	1.30E-05	3.71E-05	2.80E-09	
195	11	Surface	Iron	mg/kg	1.97E+04	9.25E-03	2.64E-02	1.99E-06	
195	11	Surface	Nickel	mg/kg	6.77E+01	3.18E-05	7.25E-05	6.83E-09	
195	11	Surface	Thallium	mg/kg	6.60E-01	3.10E-07	8.83E-07	6.66E-11	
195	11	Surface	Vanadium	mg/kg	7.97E+01	3.74E-05	5.55E-05	8.05E-09	
195	12	Surface	Beryllium	mg/kg	7.50E-01	3.52E-07	1.41E-07	7.57E-11	
195	12	Surface	Chromium	mg/kg	7.04E+01	3.31E-05	9.42E-05	7.11E-09	
195	12	Surface	Nickel	mg/kg	6.78E+01	3.18E-05	7.25E-05	6.84E-09	
195	13	Surface	Chromium	mg/kg	6.55E+01	3.08E-05	8.77E-05	6.61E-09	
195	13	Surface	Nickel	mg/kg	6.91E+01	3.24E-05	7.40E-05	6.97E-09	
195	14	Surface	Chromium	mg/kg	5.94E+01	2.79E-05	7.96E-05	6.00E-09	
195	14	Surface	Nickel	mg/kg	7.04E+01	3.30E-05	7.53E-05	7.10E-09	
195	15	Surface	Chromium	mg/kg	4.82E+01	2.26E-05	6.45E-05	4.86E-09	
195	16	Surface	Chromium	mg/kg	4.45E+01	2.09E-05	5.95E-05	4.49E-09	
195	16	Surface	Nickel	mg/kg	8.16E+01	3.83E-05	8.73E-05	8.24E-09	
195	17	Surface	Chromium	mg/kg	8.22E+01	3.86E-05	1.10E-04	8.30E-09	
195	17	Surface	Mercury	mg/kg	4.17E-01	1.96E-07	5.58E-07	1.26E-06	
195	17	Surface	Nickel	mg/kg	5.93E+01	2.79E-05	6.35E-05	5.99E-09	
195	17	Surface	PCB, Total	mg/kg	7.40E-01	3.48E-07	2.77E-06	1.27E-07	
195	17	Surface	Silver	mg/kg	1.01E+01	4.76E-06	1.09E-05	1.02E-09	
195	17	Surface	Thallium	mg/kg	5.40E-01	2.54E-07	7.23E-07	5.45E-11	
195	17	Surface	Total PAH	mg/kg	3.16E-01	1.48E-07	1.10E-06	2.37E-09	
195	17	Surface	Uranium-235	pCi/g	1.32E-01	1.11E+02		2.38E-02	2.43E+00
195	17	Surface	Uranium-238	pCi/g	2.48E+00	2.08E+03		4.48E-01	4.57E+01
196	1	Surface	Antimony	mg/kg	5.90E-01	2.77E-07	7.90E-07	5.96E-11	
196	1	Surface	Chromium	mg/kg	1.96E+01	9.21E-06	2.62E-05	1.98E-09	
196	1	Surface	Neptunium-237	pCi/g	3.11E-01	2.61E+02		5.62E-02	5.73E+00
196	1	Surface	Nickel	mg/kg	5.56E+02	2.61E-04	5.95E-04	5.61E-08	
196	1	Surface	Uranium	mg/kg	2.33E+01	1.09E-05	3.12E-05	2.35E-09	
196	1	Surface	Uranium-238	pCi/g	1.54E+00	1.29E+03		2.78E-01	2.84E+01
196	2	Surface	Barium	mg/kg	2.02E+02	9.49E-05	2.70E-04	2.04E-08	
196	2	Surface	Cadmium	mg/kg	2.53E+00	1.19E-06	6.77E-08	2.55E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
196	2	Surface	Chromium	mg/kg	2.07E+01	9.72E-06	2.77E-05	2.09E-09	
196	2	Surface	Nickel	mg/kg	7.36E+01	3.46E-05	7.88E-05	7.43E-09	
196	2	Surface	PCB, Total	mg/kg	1.51E+00	7.09E-07	5.66E-06	2.59E-07	
196	2	Surface	Total PAH	mg/kg	6.80E-01	3.19E-07	2.37E-06	5.10E-09	
196	2	Surface	Uranium-238	pCi/g	2.21E+00	1.86E+03		3.99E-01	4.07E+01
200	1	Surface	Antimony	mg/kg	5.60E-01	2.63E-07	7.50E-07	5.65E-11	
200	1	Surface	Cesium-137	pCi/g	5.74E-01	4.82E+02		1.04E-01	1.06E+01
200	1	Surface	Chromium	mg/kg	5.75E+01	2.70E-05	7.70E-05	5.81E-09	
200	1	Surface	Mercury	mg/kg	6.71E+00	3.15E-06	8.98E-06	2.03E-05	
200	1	Surface	Nickel	mg/kg	1.28E+02	6.01E-05	1.37E-04	1.29E-08	
200	1	Surface	PCB, Total	mg/kg	2.60E+00	1.22E-06	9.74E-06	4.46E-07	
200	1	Surface	Total PAH	mg/kg	2.84E-02	1.33E-08	9.88E-08	2.13E-10	
200	1	Surface	Uranium	mg/kg	2.73E+01	1.28E-05	3.65E-05	2.76E-09	
200	1	Surface	Uranium-235	pCi/g	1.43E-01	1.20E+02		2.58E-02	2.63E+00
200	1	Surface	Uranium-238	pCi/g	3.58E+00	3.00E+03		6.46E-01	6.59E+01
204	1	Surface	Aluminum	mg/kg	1.48E+04	6.95E-03	1.98E-02	1.49E-06	
204	1	Surface	Beryllium	mg/kg	1.36E+00	6.39E-07	2.55E-07	1.37E-10	
204	1	Surface	Cadmium	mg/kg	2.73E+00	1.28E-06	7.31E-08	2.76E-10	
204	1	Surface	Chromium	mg/kg	7.40E+01	3.48E-05	9.91E-05	7.47E-09	
204	1	Surface	Iron	mg/kg	4.19E+04	1.97E-02	5.61E-02	4.23E-06	
204	1	Surface	PCB, Total	mg/kg	2.53E+00	1.19E-06	9.48E-06	4.34E-07	
204	1	Surface	Uranium-235	pCi/g	1.80E-01	1.51E+02		3.25E-02	3.31E+00
204	1	Surface	Uranium-238	pCi/g	5.20E+00	4.37E+03		9.39E-01	9.57E+01
204	1	Surface	Vanadium	mg/kg	7.55E+01	3.55E-05	5.26E-05	7.62E-09	
204	2	Surface	Aluminum	mg/kg	1.37E+04	6.43E-03	1.83E-02	1.38E-06	
204	2	Surface	Chromium	mg/kg	1.80E+01	8.45E-06	2.41E-05	1.82E-09	
204	2	Surface	PCB, Total	mg/kg	1.70E-01	7.98E-08	6.37E-07	2.91E-08	
204	3	Surface	Chromium	mg/kg	2.06E+01	9.68E-06	2.76E-05	2.08E-09	
204	3	Surface	Uranium-238	pCi/g	2.50E+00	2.10E+03		4.51E-01	4.60E+01
204	4	Surface	Antimony	mg/kg	1.10E+00	5.17E-07	1.47E-06	1.11E-10	
204	4	Surface	Chromium	mg/kg	2.89E+01	1.36E-05	3.87E-05	2.92E-09	
204	4	Surface	Uranium-235	pCi/g	1.88E-01	1.58E+02		3.39E-02	3.46E+00
204	4	Surface	Uranium-238	pCi/g	9.72E+00	8.17E+03		1.76E+00	1.79E+02
204	18	Surface	Cesium-137	pCi/g	6.30E-01	5.29E+02		1.14E-01	1.16E+01
204	18	Surface	Uranium	mg/kg	1.60E+01	7.51E-06	2.14E-05	1.62E-09	
204	18	Surface	Uranium-235	pCi/g	1.25E-01	1.05E+02		2.26E-02	2.30E+00
204	18	Surface	Uranium-238	pCi/g	5.37E+00	4.51E+03		9.70E-01	9.89E+01
204	23	Surface	Americium-241	pCi/g	3.71E+00	3.12E+03		6.70E-01	6.83E+01
204	23	Surface	Beryllium	mg/kg	1.33E+00	6.25E-07	2.49E-07	1.34E-10	
204	23	Surface	Cesium-137	pCi/g	1.17E+00	9.84E+02		2.12E-01	2.16E+01
204	23	Surface	Chromium	mg/kg	1.75E+02	8.22E-05	2.34E-04	1.77E-08	
204	23	Surface	Cobalt-60	pCi/g	1.23E-02	1.03E+01		2.21E-03	2.26E-01
204	23	Surface	PCB, Total	mg/kg	7.90E+01	3.71E-05	2.96E-04	1.35E-05	
204	23	Surface	Uranium	mg/kg	1.31E+04	6.14E-03	1.75E-02	1.32E-06	
204	23	Surface	Uranium-234	pCi/g	4.45E+02	3.74E+05		8.04E+01	8.19E+03
204	23	Surface	Uranium-235	pCi/g	5.70E+01	4.79E+04		1.03E+01	1.05E+03
204	23	Surface	Uranium-238	pCi/g	4.39E+03	3.68E+06		7.92E+02	8.08E+04
211	1	Surface	Chromium	mg/kg	4.48E+01	2.10E-05	5.99E-05	4.52E-09	
211	1	Surface	Neptunium-237	pCi/g	1.46E-01	1.23E+02		2.64E-02	2.69E+00
211	1	Surface	PCB, Total	mg/kg	3.60E-01	1.69E-07	1.35E-06	6.17E-08	
211	1	Surface	Total PAH	mg/kg	1.04E-01	4.88E-08	3.61E-07	7.78E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
211	1	Surface	Uranium	mg/kg	2.19E+01	1.03E-05	2.93E-05	2.21E-09	
211	1	Surface	Uranium-235	pCi/g	2.12E-01	1.78E+02		3.83E-02	3.90E+00
211	1	Surface	Uranium-238	pCi/g	5.84E+00	4.91E+03		1.05E+00	1.08E+02
212	1	Surface	Arsenic	mg/kg	1.44E+01	6.77E-06	1.16E-05	1.46E-09	
212	1	Surface	Beryllium	mg/kg	8.10E-01	3.80E-07	1.52E-07	8.18E-11	
212	1	Surface	Cesium-137	pCi/g	6.01E-01	5.05E+02		1.09E-01	1.11E+01
212	1	Surface	Chromium	mg/kg	3.58E+01	1.68E-05	4.79E-05	3.61E-09	
212	1	Surface	Cobalt-60	pCi/g	8.76E-03	7.36E+00		1.58E-03	1.61E-01
212	1	Surface	Iron	mg/kg	4.14E+04	1.94E-02	5.54E-02	4.18E-06	
212	1	Surface	Neptunium-237	pCi/g	4.00E+00	3.36E+03		7.22E-01	7.36E+01
212	1	Surface	Nickel	mg/kg	8.69E+01	4.08E-05	9.31E-05	8.77E-09	
212	1	Surface	PCB, Total	mg/kg	1.80E-01	8.45E-08	6.75E-07	3.09E-08	
212	1	Surface	Plutonium-239/240	pCi/g	6.71E+00	5.64E+03		1.21E+00	1.24E+02
212	1	Surface	Thorium-230	pCi/g	2.60E+02	2.18E+05		4.69E+01	4.79E+03
212	1	Surface	Uranium	mg/kg	2.30E+01	1.08E-05	3.08E-05	2.32E-09	
212	1	Surface	Uranium-235	pCi/g	2.09E-01	1.76E+02		3.77E-02	3.85E+00
212	1	Surface	Uranium-238	pCi/g	3.17E+00	2.66E+03		5.72E-01	5.84E+01
213	1	Surface	Antimony	mg/kg	8.50E-01	3.99E-07	1.14E-06	8.58E-11	
213	1	Surface	Chromium	mg/kg	4.78E+01	2.25E-05	6.40E-05	4.83E-09	
213	1	Surface	Nickel	mg/kg	6.67E+01	3.13E-05	7.15E-05	6.74E-09	
213	1	Surface	PCB, Total	mg/kg	7.30E-02	3.43E-08	2.74E-07	1.25E-08	
213	1	Surface	Silver	mg/kg	1.32E+01	6.19E-06	1.41E-05	1.33E-09	
213	1	Surface	Total PAH	mg/kg	1.72E-01	8.07E-08	5.98E-07	1.29E-09	
213	1	Surface	Uranium-238	pCi/g	2.33E+00	1.96E+03		4.21E-01	4.29E+01
213	2	Surface	Chromium	mg/kg	4.48E+01	2.10E-05	6.00E-05	4.52E-09	
213	2	Surface	Nickel	mg/kg	9.10E+01	4.27E-05	9.74E-05	9.19E-09	
213	2	Surface	Silver	mg/kg	1.13E+01	5.29E-06	1.21E-05	1.14E-09	
214	1	Surface	Antimony	mg/kg	5.70E-01	2.68E-07	7.63E-07	5.75E-11	
215	1	Surface	Antimony	mg/kg	6.80E-01	3.19E-07	9.10E-07	6.87E-11	
215	1	Surface	Chromium	mg/kg	5.73E+01	2.69E-05	7.67E-05	5.79E-09	
215	1	Surface	Iron	mg/kg	3.87E+04	1.82E-02	5.18E-02	3.91E-06	
215	1	Surface	Nickel	mg/kg	7.32E+01	3.44E-05	7.83E-05	7.39E-09	
215	1	Surface	Total PAH	mg/kg	8.09E-02	3.80E-08	2.81E-07	6.06E-10	
216	1	Surface	Chromium	mg/kg	2.38E+01	1.12E-05	3.19E-05	2.40E-09	
216	1	Surface	Total PAH	mg/kg	1.49E-01	7.01E-08	5.20E-07	1.12E-09	
216	1	Surface	Uranium-238	pCi/g	1.33E+00	1.12E+03		2.40E-01	2.45E+01
217	1	Surface	Chromium	mg/kg	8.58E+01	4.03E-05	1.15E-04	8.66E-09	
217	1	Surface	Cobalt	mg/kg	1.96E+01	9.19E-06	2.62E-05	1.98E-09	
217	1	Surface	Manganese	mg/kg	7.70E+02	3.62E-04	8.24E-04	7.77E-08	
217	1	Surface	Nickel	mg/kg	8.54E+01	4.01E-05	9.15E-05	8.62E-09	
217	1	Surface	Silver	mg/kg	1.35E+01	6.32E-06	1.44E-05	1.36E-09	
217	1	Surface	Uranium-238	pCi/g	1.15E+00	9.69E+02		2.08E-01	2.12E+01
217	2	Surface	Antimony	mg/kg	1.70E+00	7.98E-07	2.28E-06	1.72E-10	
217	2	Surface	Arsenic	mg/kg	1.12E+01	5.24E-06	8.96E-06	1.13E-09	
217	2	Surface	Chromium	mg/kg	1.02E+02	4.77E-05	1.36E-04	1.03E-08	
217	2	Surface	Cobalt	mg/kg	1.74E+01	8.17E-06	2.33E-05	1.76E-09	
217	2	Surface	Iron	mg/kg	3.09E+04	1.45E-02	4.14E-02	3.12E-06	
217	2	Surface	Manganese	mg/kg	8.44E+02	3.96E-04	9.03E-04	8.52E-08	
217	2	Surface	Mercury	mg/kg	8.59E+00	4.03E-06	1.15E-05	2.60E-05	
217	2	Surface	Nickel	mg/kg	9.74E+01	4.57E-05	1.04E-04	9.83E-09	
217	2	Surface	Silver	mg/kg	1.61E+01	7.56E-06	1.72E-05	1.62E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
217	2	Surface	Total PAH	mg/kg	5.05E-01	2.37E-07	1.76E-06	3.78E-09	
219	1	Surface	Neptunium-237	pCi/g	3.31E-01	2.78E+02		5.98E-02	6.09E+00
219	1	Surface	Nickel	mg/kg	6.71E+01	3.15E-05	7.19E-05	6.78E-09	
219	1	Surface	Total PAH	mg/kg	7.50E-02	3.52E-08	2.61E-07	5.62E-10	
219	1	Surface	Uranium-235	pCi/g	1.92E-01	1.61E+02		3.47E-02	3.53E+00
219	1	Surface	Uranium-238	pCi/g	4.40E+00	3.70E+03		7.95E-01	8.10E+01
221	1	Surface	Barium	mg/kg	2.21E+02	1.04E-04	2.96E-04	2.23E-08	
221	1	Surface	Chromium	mg/kg	7.01E+01	3.29E-05	9.39E-05	7.08E-09	
221	1	Surface	Iron	mg/kg	1.90E+04	8.91E-03	2.54E-02	1.92E-06	
221	1	Surface	Nickel	mg/kg	7.93E+01	3.72E-05	8.49E-05	8.00E-09	
221	1	Surface	PCB, Total	mg/kg	5.00E-01	2.35E-07	1.87E-06	8.57E-08	
221	1	Surface	Total PAH	mg/kg	1.02E+00	4.80E-07	3.56E-06	7.66E-09	
221	1	Surface	Uranium	mg/kg	1.64E+01	7.68E-06	2.19E-05	1.65E-09	
221	1	Surface	Uranium-238	pCi/g	1.93E+00	1.62E+03		3.49E-01	3.55E+01
222	1	Surface	Chromium	mg/kg	4.73E+01	2.22E-05	6.33E-05	4.78E-09	
222	1	Surface	Nickel	mg/kg	9.19E+01	4.32E-05	9.84E-05	9.28E-09	
222	1	Surface	PCB, Total	mg/kg	1.40E+00	6.58E-07	5.25E-06	2.40E-07	
222	1	Surface	Total PAH	mg/kg	1.77E-01	8.32E-08	6.17E-07	1.33E-09	
222	1	Surface	Uranium	mg/kg	2.80E+01	1.31E-05	3.75E-05	2.82E-09	
222	1	Surface	Uranium-234	pCi/g	1.04E+01	8.74E+03		1.88E+00	1.91E+02
222	1	Surface	Uranium-235	pCi/g	7.10E-01	5.96E+02		1.28E-01	1.31E+01
222	1	Surface	Uranium-238	pCi/g	1.96E+01	1.65E+04		3.54E+00	3.61E+02
224	1	Surface	Chromium	mg/kg	4.49E+01	2.11E-05	6.01E-05	4.53E-09	
224	1	Surface	PCB, Total	mg/kg	4.75E+02	2.23E-04	1.78E-03	8.14E-05	
224	1	Surface	Total PAH	mg/kg	4.53E+01	2.13E-05	1.58E-04	3.39E-07	
224	1	Surface	Uranium	mg/kg	4.15E+01	1.95E-05	5.55E-05	4.19E-09	
224	1	Surface	Uranium-235	pCi/g	2.50E-01	2.10E+02		4.51E-02	4.60E+00
224	1	Surface	Uranium-238	pCi/g	2.64E+01	2.22E+04		4.77E+00	4.86E+02
225	1	Surface	Chromium	mg/kg	2.55E+01	1.20E-05	3.41E-05	2.57E-09	
225	1	Surface	Total PAH	mg/kg	7.79E-02	3.66E-08	2.71E-07	5.83E-10	
225	1	Surface	Uranium-238	pCi/g	2.04E+00	1.71E+03		3.68E-01	3.76E+01
226	1	Surface	Americium-241	pCi/g	1.62E+00	1.36E+03		2.93E-01	2.99E+01
226	1	Surface	Antimony	mg/kg	6.60E-01	3.10E-07	8.83E-07	6.66E-11	
226	1	Surface	Cesium-137	pCi/g	2.65E+00	2.23E+03		4.79E-01	4.88E+01
226	1	Surface	Chromium	mg/kg	4.25E+01	2.00E-05	5.69E-05	4.29E-09	
226	1	Surface	Cobalt-60	pCi/g	3.14E-03	2.64E+00		5.67E-04	5.78E-02
226	1	Surface	Manganese	mg/kg	6.30E+02	2.96E-04	6.75E-04	6.36E-08	
226	1	Surface	Mercury	mg/kg	9.74E+00	4.57E-06	1.30E-05	2.95E-05	
226	1	Surface	Neptunium-237	pCi/g	1.60E+02	1.34E+05		2.89E+01	2.95E+03
226	1	Surface	Nickel	mg/kg	2.10E+02	9.84E-05	2.24E-04	2.12E-08	
226	1	Surface	PCB, Total	mg/kg	1.49E+00	7.00E-07	5.58E-06	2.55E-07	
226	1	Surface	Plutonium-238	pCi/g	2.13E+00	1.79E+03		3.85E-01	3.93E+01
226	1	Surface	Plutonium-239/240	pCi/g	6.52E+00	5.48E+03		1.18E+00	1.20E+02
226	1	Surface	Technetium-99	pCi/g	4.96E+01	4.17E+04		8.96E+00	9.13E+02
226	1	Surface	Thorium-230	pCi/g	4.77E+01	4.01E+04		8.62E+00	8.79E+02
226	1	Surface	Total PAH	mg/kg	9.19E-02	4.32E-08	3.20E-07	6.89E-10	
226	1	Surface	Uranium	mg/kg	4.01E+02	1.88E-04	5.37E-04	4.05E-08	
226	1	Surface	Uranium-234	pCi/g	2.29E+01	1.93E+04		4.14E+00	4.22E+02
226	1	Surface	Uranium-235	pCi/g	1.10E+00	9.26E+02		1.99E-01	2.03E+01
226	1	Surface	Uranium-238	pCi/g	2.40E+01	2.02E+04		4.33E+00	4.42E+02
227	1	Surface	Beryllium	mg/kg	5.52E-01	2.59E-07	1.03E-07	5.57E-11	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
227	1	Surface	Cesium-137	pCi/g	1.90E-01	1.60E+02		3.43E-02	3.50E+00
227	1	Surface	Chromium	mg/kg	4.71E+01	2.21E-05	6.31E-05	4.76E-09	
227	1	Surface	Cobalt-60	pCi/g	1.53E-02	1.29E+01		2.76E-03	2.82E-01
227	1	Surface	Neptunium-237	pCi/g	9.05E-01	7.60E+02		1.63E-01	1.67E+01
227	1	Surface	Nickel	mg/kg	2.03E+02	9.53E-05	2.17E-04	2.05E-08	
227	1	Surface	PCB, Total	mg/kg	4.14E+00	1.95E-06	1.55E-05	7.10E-07	
227	1	Surface	Technetium-99	pCi/g	4.77E+01	4.01E+04		8.62E+00	8.79E+02
227	1	Surface	Total PAH	mg/kg	3.38E-01	1.59E-07	1.18E-06	2.53E-09	
227	1	Surface	Uranium	mg/kg	1.02E+02	4.77E-05	1.36E-04	1.03E-08	
227	1	Surface	Uranium-234	pCi/g	1.54E+01	1.30E+04		2.79E+00	2.84E+02
227	1	Surface	Uranium-235	pCi/g	1.49E+00	1.25E+03		2.69E-01	2.74E+01
227	1	Surface	Uranium-238	pCi/g	4.63E+01	3.89E+04		8.36E+00	8.52E+02
227	2	Surface	Beryllium	mg/kg	5.32E-01	2.50E-07	9.97E-08	5.37E-11	
227	2	Surface	Chromium	mg/kg	5.63E+01	2.64E-05	7.54E-05	5.69E-09	
227	2	Surface	Cobalt	mg/kg	8.99E+00	4.22E-06	1.20E-05	9.07E-10	
227	2	Surface	Cobalt-60	pCi/g	1.37E-02	1.15E+01		2.47E-03	2.52E-01
227	2	Surface	Mercury	mg/kg	8.41E+00	3.95E-06	1.13E-05	2.55E-05	
227	2	Surface	Nickel	mg/kg	1.25E+02	5.87E-05	1.34E-04	1.26E-08	
227	2	Surface	PCB, Total	mg/kg	5.82E+00	2.73E-06	2.18E-05	9.98E-07	
227	2	Surface	Total PAH	mg/kg	1.16E-01	5.43E-08	4.03E-07	8.67E-10	
227	2	Surface	Uranium	mg/kg	1.51E+01	7.07E-06	2.01E-05	1.52E-09	
227	2	Surface	Uranium-238	pCi/g	1.57E+00	1.32E+03		2.84E-01	2.90E+01
228	1	Surface	Antimony	mg/kg	6.30E-01	2.96E-07	8.43E-07	6.36E-11	
228	1	Surface	Cadmium	mg/kg	3.90E+00	1.83E-06	1.04E-07	3.94E-10	
228	1	Surface	Chromium	mg/kg	1.89E+02	8.87E-05	2.53E-04	1.91E-08	
228	1	Surface	Mercury	mg/kg	9.37E+00	4.40E-06	1.25E-05	2.84E-05	
228	1	Surface	Neptunium-237	pCi/g	8.00E-01	6.72E+02		1.44E-01	1.47E+01
228	1	Surface	Nickel	mg/kg	7.92E+01	3.72E-05	8.48E-05	7.99E-09	
228	1	Surface	Silver	mg/kg	1.16E+01	5.46E-06	1.25E-05	1.17E-09	
228	1	Surface	Total PAH	mg/kg	6.69E-02	3.14E-08	2.33E-07	5.01E-10	
228	1	Surface	Uranium	mg/kg	1.51E+01	7.11E-06	2.03E-05	1.53E-09	
228	1	Surface	Uranium-235	pCi/g	1.78E-01	1.50E+02		3.21E-02	3.28E+00
228	1	Surface	Uranium-238	pCi/g	3.77E+00	3.17E+03		6.81E-01	6.94E+01
229	1	Surface	Nickel	mg/kg	9.14E+01	4.29E-05	9.78E-05	9.23E-09	
229	1	Surface	Total PAH	mg/kg	1.57E-01	7.36E-08	5.46E-07	1.18E-09	
229	1	Surface	Uranium	mg/kg	1.56E+02	7.32E-05	2.09E-04	1.57E-08	
229	1	Surface	Uranium-238	pCi/g	2.86E+00	2.40E+03		5.16E-01	5.27E+01
229	2	Surface	Arsenic	mg/kg	2.12E+01	9.96E-06	1.70E-05	2.14E-09	
229	2	Surface	Beryllium	mg/kg	7.90E-01	3.71E-07	1.48E-07	7.98E-11	
229	2	Surface	Chromium	mg/kg	2.91E+01	1.37E-05	3.90E-05	2.94E-09	
229	2	Surface	Neptunium-237	pCi/g	2.87E-01	2.41E+02		5.18E-02	5.28E+00
229	2	Surface	Nickel	mg/kg	9.93E+01	4.66E-05	1.06E-04	1.00E-08	
229	2	Surface	Total PAH	mg/kg	1.69E+00	7.96E-07	5.90E-06	1.27E-08	
229	2	Surface	Uranium	mg/kg	7.45E+01	3.50E-05	9.97E-05	7.52E-09	
229	2	Surface	Uranium-234	pCi/g	1.22E+01	1.02E+04		2.20E+00	2.25E+02
229	2	Surface	Uranium-235	pCi/g	8.40E-01	7.06E+02		1.52E-01	1.55E+01
229	2	Surface	Uranium-238	pCi/g	2.49E+01	2.09E+04		4.50E+00	4.58E+02
483	1	Surface	Nickel	mg/kg	1.17E+02	5.47E-05	1.25E-04	1.18E-08	
483	1	Surface	Silver	mg/kg	1.12E+01	5.26E-06	1.20E-05	1.13E-09	
483	1	Surface	Total PAH	mg/kg	2.39E-02	1.12E-08	8.32E-08	1.79E-10	
486	1	Surface	Cesium-137	pCi/g					

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
487	1	Surface	Cesium-137	pCi/g					
488	1	Surface	Cesium-137	pCi/g	5.20E-01	4.37E+02		9.39E-02	9.57E+00
488	1	Surface	PCB, Total	mg/kg	1.03E+01	4.84E-06	3.86E-05	1.77E-06	
488	1	Surface	Total PAH	mg/kg	2.50E-01	1.17E-07	8.69E-07	1.87E-09	
488	1	Surface	Uranium	mg/kg	1.48E+01	6.95E-06	1.98E-05	1.49E-09	
488	1	Surface	Uranium-235	pCi/g	1.49E-01	1.25E+02		2.69E-02	2.74E+00
488	1	Surface	Uranium-238	pCi/g	4.54E+00	3.81E+03		8.20E-01	8.36E+01
489	1	Surface	Chromium	mg/kg	4.16E+01	1.96E-05	5.57E-05	4.20E-09	
489	1	Surface	Nickel	mg/kg	7.88E+01	3.70E-05	8.44E-05	7.96E-09	
489	1	Surface	Total PAH	mg/kg	8.22E-02	3.86E-08	2.86E-07	6.16E-10	
489	1	Surface	Uranium-238	pCi/g	1.47E+00	1.23E+03		2.65E-01	2.71E+01
492	1	Surface	Arsenic	mg/kg	1.47E+01	6.90E-06	1.18E-05	1.48E-09	
492	1	Surface	Beryllium	mg/kg	1.04E+01	4.88E-06	1.95E-06	1.05E-09	
492	1	Surface	Cadmium	mg/kg	3.14E+00	1.47E-06	8.41E-08	3.17E-10	
492	1	Surface	Chromium	mg/kg	1.04E+03	4.88E-04	1.39E-03	1.05E-07	
492	1	Surface	Cobalt-60	pCi/g	9.63E-03	8.09E+00		1.74E-03	1.77E-01
492	1	Surface	Neptunium-237	pCi/g	2.09E-01	1.76E+02		3.77E-02	3.85E+00
492	1	Surface	PCB, Total	mg/kg	4.41E+01	2.07E-05	1.65E-04	7.56E-06	
492	1	Surface	Uranium	mg/kg	1.77E+03	8.31E-04	2.37E-03	1.79E-07	
492	1	Surface	Uranium-234	pCi/g	5.39E+01	4.53E+04		9.73E+00	9.92E+02
492	1	Surface	Uranium-235	pCi/g	5.72E+00	4.80E+03		1.03E+00	1.05E+02
492	1	Surface	Uranium-238	pCi/g	3.83E+02	3.22E+05		6.92E+01	7.05E+03
492	1	Surface	Vanadium	mg/kg	4.32E+01	2.03E-05	3.01E-05	4.36E-09	
493	1	Surface	Aluminum	mg/kg	1.44E+04	6.76E-03	1.93E-02	1.45E-06	
493	1	Surface	Barium	mg/kg	4.04E+02	1.90E-04	5.41E-04	4.08E-08	
493	1	Surface	Beryllium	mg/kg	9.91E-01	4.65E-07	1.86E-07	1.00E-10	
493	1	Surface	Chromium	mg/kg	6.61E+01	3.10E-05	8.85E-05	6.67E-09	
493	1	Surface	Cobalt	mg/kg	3.79E+01	1.78E-05	5.07E-05	3.83E-09	
493	1	Surface	Cobalt-60	pCi/g	1.36E-02	1.14E+01		2.46E-03	2.50E-01
493	1	Surface	Manganese	mg/kg	3.55E+03	1.67E-03	3.80E-03	3.58E-07	
493	1	Surface	Mercury	mg/kg	2.60E-01	1.22E-07	3.48E-07	7.88E-07	
493	1	Surface	Neptunium-237	pCi/g	1.22E-01	1.02E+02		2.20E-02	2.25E+00
493	1	Surface	Nickel	mg/kg	2.13E+02	1.00E-04	2.28E-04	2.15E-08	
493	1	Surface	PCB, Total	mg/kg	2.60E-01	1.22E-07	9.74E-07	4.46E-08	
493	1	Surface	Total PAH	mg/kg	5.00E-01	2.35E-07	1.74E-06	3.75E-09	
493	1	Surface	Uranium-235	pCi/g	1.65E-01	1.39E+02		2.98E-02	3.04E+00
493	1	Surface	Uranium-238	pCi/g	5.50E+00	4.62E+03		9.93E-01	1.01E+02
493	1	Surface	Vanadium	mg/kg	4.05E+01	1.90E-05	2.82E-05	4.09E-09	
517	1	Surface	Beryllium	mg/kg	7.39E-01	3.47E-07	1.38E-07	7.46E-11	
517	1	Surface	Chromium	mg/kg	4.91E+01	2.31E-05	6.57E-05	4.96E-09	
517	1	Surface	Cobalt-60	pCi/g	6.39E-03	5.37E+00		1.15E-03	1.18E-01
517	1	Surface	Neptunium-237	pCi/g	1.07E+00	8.99E+02		1.93E-01	1.97E+01
517	1	Surface	Nickel	mg/kg	1.72E+02	8.08E-05	1.84E-04	1.74E-08	
517	1	Surface	PCB, Total	mg/kg	5.00E-01	2.35E-07	1.87E-06	8.57E-08	
517	1	Surface	Uranium-235	pCi/g	1.60E-01	1.34E+02		2.89E-02	2.95E+00
517	1	Surface	Uranium-238	pCi/g	3.89E+00	3.27E+03		7.02E-01	7.16E+01
518	1	Surface	Carbazole	mg/kg	1.17E+01	5.50E-06	3.14E-05	5.51E-07	
518	1	Surface	Cobalt	mg/kg	6.80E+00	3.20E-06	9.11E-06	6.87E-10	
518	1	Surface	Nickel	mg/kg	1.29E+01	6.04E-06	1.38E-05	1.30E-09	
518	1	Surface	PCB, Total	mg/kg	6.30E-01	2.96E-07	2.36E-06	1.08E-07	
518	1	Surface	Pyrene	mg/kg	3.94E+01	1.85E-05	1.37E-04	2.63E-06	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
518	1	Surface	Total PAH	mg/kg	4.64E+00	2.18E-06	1.61E-05	3.48E-08	
518	1	Surface	Uranium	mg/kg	2.17E+02	1.02E-04	2.90E-04	2.19E-08	
518	1	Surface	Uranium-235	pCi/g	6.74E-02	5.66E+01		1.22E-02	1.24E+00
518	1	Surface	Uranium-238	pCi/g	1.51E+00	1.27E+03		2.73E-01	2.79E+01
520	1	Surface	Cesium-137	pCi/g	9.62E-01	8.08E+02		1.74E-01	1.77E+01
520	1	Surface	Chromium	mg/kg	3.17E+01	1.49E-05	4.25E-05	3.20E-09	
520	1	Surface	Iron	mg/kg	1.56E+04	7.32E-03	2.09E-02	1.57E-06	
520	1	Surface	Mercury	mg/kg	1.07E+01	5.02E-06	1.43E-05	3.23E-05	
520	1	Surface	Neptunium-237	pCi/g	6.56E-01	5.51E+02		1.18E-01	1.21E+01
520	1	Surface	Nickel	mg/kg	2.60E+02	1.22E-04	2.79E-04	2.63E-08	
520	1	Surface	Silver	mg/kg	1.30E+01	6.09E-06	1.39E-05	1.31E-09	
520	1	Surface	Thorium-230	pCi/g	1.13E+01	9.53E+03		2.05E+00	2.09E+02
520	1	Surface	Total PAH	mg/kg	3.18E-02	1.50E-08	1.11E-07	2.39E-10	
520	1	Surface	Uranium	mg/kg	2.29E+01	1.08E-05	3.07E-05	2.32E-09	
520	1	Surface	Uranium-235	pCi/g	1.26E-01	1.06E+02		2.28E-02	2.32E+00
520	1	Surface	Uranium-238	pCi/g	3.93E+00	3.30E+03		7.09E-01	7.23E+01
520	2	Surface	Beryllium	mg/kg	5.79E-01	2.72E-07	1.09E-07	5.85E-11	
520	2	Surface	Chromium	mg/kg	6.67E+01	3.13E-05	8.92E-05	6.73E-09	
520	2	Surface	Manganese	mg/kg	5.89E+02	2.77E-04	6.31E-04	5.95E-08	
520	2	Surface	Mercury	mg/kg	1.19E+01	5.58E-06	1.59E-05	3.60E-05	
520	2	Surface	Neptunium-237	pCi/g	7.48E-02	6.28E+01		1.35E-02	1.38E+00
520	2	Surface	Nickel	mg/kg	3.11E+02	1.46E-04	3.32E-04	3.13E-08	
520	2	Surface	Total PAH	mg/kg	3.17E-01	1.49E-07	1.10E-06	2.38E-09	
520	2	Surface	Uranium	mg/kg	3.96E+01	1.86E-05	5.30E-05	3.99E-09	
520	2	Surface	Uranium-238	pCi/g	1.78E+00	1.49E+03		3.21E-01	3.27E+01
520	3	Surface	Chromium	mg/kg	3.97E+01	1.86E-05	5.31E-05	4.01E-09	
520	3	Surface	Copper	mg/kg	1.19E+02	5.59E-05	1.59E-04	1.20E-08	
520	3	Surface	Nickel	mg/kg	2.65E+02	1.24E-04	2.84E-04	2.67E-08	
520	3	Surface	Silver	mg/kg	1.27E+01	5.95E-06	1.36E-05	1.28E-09	
520	3	Surface	Total PAH	mg/kg	1.18E-01	5.55E-08	4.11E-07	8.85E-10	
520	3	Surface	Uranium	mg/kg	1.92E+01	9.03E-06	2.57E-05	1.94E-09	
520	3	Surface	Uranium-238	pCi/g	1.57E+00	1.32E+03		2.83E-01	2.89E+01
520	4	Surface	Chromium	mg/kg	3.82E+01	1.80E-05	5.12E-05	3.86E-09	
520	4	Surface	Copper	mg/kg	1.11E+02	5.19E-05	1.48E-04	1.12E-08	
520	4	Surface	Mercury	mg/kg	9.69E+00	4.55E-06	1.30E-05	2.94E-05	
520	4	Surface	Neptunium-237	pCi/g	7.40E-01	6.22E+02		1.34E-01	1.36E+01
520	4	Surface	Nickel	mg/kg	2.82E+02	1.32E-04	3.02E-04	2.85E-08	
520	4	Surface	Silver	mg/kg	1.04E+01	4.90E-06	1.12E-05	1.05E-09	
520	4	Surface	Total PAH	mg/kg	5.52E-01	2.59E-07	1.92E-06	4.14E-09	
520	4	Surface	Uranium	mg/kg	2.40E+01	1.13E-05	3.22E-05	2.43E-09	
520	4	Surface	Uranium-235	pCi/g	2.42E-01	2.03E+02		4.37E-02	4.46E+00
520	4	Surface	Uranium-238	pCi/g	6.26E+00	5.26E+03		1.13E+00	1.15E+02
520	5	Surface	Antimony	mg/kg	9.60E-01	4.51E-07	1.29E-06	9.69E-11	
520	5	Surface	Chromium	mg/kg	3.68E+01	1.73E-05	4.93E-05	3.72E-09	
520	5	Surface	Neptunium-237	pCi/g	1.55E-01	1.30E+02		2.80E-02	2.85E+00
520	5	Surface	Nickel	mg/kg	1.47E+02	6.90E-05	1.57E-04	1.48E-08	
520	5	Surface	Total PAH	mg/kg	3.87E-01	1.82E-07	1.35E-06	2.90E-09	
520	5	Surface	Uranium-238	pCi/g	1.45E+00	1.22E+03		2.62E-01	2.67E+01
531	1	Surface	Antimony	mg/kg	1.00E+00	4.70E-07	1.34E-06	1.01E-10	
531	1	Surface	Arsenic	mg/kg	4.68E+01	2.20E-05	3.76E-05	4.73E-09	
531	1	Surface	Cadmium	mg/kg	3.10E+00	1.46E-06	8.30E-08	3.13E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
531	1	Surface	Chromium	mg/kg	5.05E+01	2.37E-05	6.75E-05	5.09E-09	
531	1	Surface	Iron	mg/kg	5.68E+04	2.67E-02	7.61E-02	5.74E-06	
531	1	Surface	Nickel	mg/kg	1.62E+02	7.62E-05	1.74E-04	1.64E-08	
531	1	Surface	Total PAH	mg/kg	5.34E-02	2.51E-08	1.86E-07	4.00E-10	
531	1	Surface	Uranium	mg/kg	2.41E+01	1.13E-05	3.22E-05	2.43E-09	
531	1	Surface	Uranium-235	pCi/g	1.38E-01	1.16E+02		2.49E-02	2.54E+00
531	1	Surface	Uranium-238	pCi/g	3.48E+00	2.92E+03		6.28E-01	6.41E+01
531	1	Surface	Zinc	mg/kg	2.45E+03	1.15E-03	3.28E-03	2.48E-07	
541	1	Surface	Aluminum	mg/kg	1.43E+04	6.71E-03	1.91E-02	1.44E-06	
541	1	Surface	Americium-241	pCi/g	7.53E+00	6.33E+03		1.36E+00	1.39E+02
541	1	Surface	Barium	mg/kg	1.28E+02	6.01E-05	1.71E-04	1.29E-08	
541	1	Surface	Beryllium	mg/kg	6.98E-01	3.28E-07	1.31E-07	7.05E-11	
541	1	Surface	Cadmium	mg/kg	1.68E+00	7.90E-07	4.50E-08	1.70E-10	
541	1	Surface	Cesium-137	pCi/g	9.58E-01	8.05E+02		1.73E-01	1.76E+01
541	1	Surface	Chromium	mg/kg	8.24E+02	3.87E-04	1.10E-03	8.32E-08	
541	1	Surface	Cobalt-60	pCi/g	1.01E-02	8.48E+00		1.82E-03	1.86E-01
541	1	Surface	Iron	mg/kg	1.60E+04	7.50E-03	2.14E-02	1.61E-06	
541	1	Surface	Mercury	mg/kg	9.81E-02	4.61E-08	1.31E-07	2.97E-07	
541	1	Surface	Naphthalene	mg/kg	6.55E-01	3.08E-07	4.38E-06	2.22E-06	
541	1	Surface	Neptunium-237	pCi/g	5.52E-02	4.64E+01		9.97E-03	1.02E+00
541	1	Surface	Nickel	mg/kg	1.52E+01	7.16E-06	1.63E-05	1.54E-09	
541	1	Surface	PCB, Total	mg/kg	6.06E+01	2.85E-05	2.27E-04	1.04E-05	
541	1	Surface	Total PAH	mg/kg	2.33E+00	1.09E-06	8.11E-06	1.75E-08	
541	1	Surface	Uranium	mg/kg	6.38E+03	3.00E-03	8.54E-03	6.44E-07	
541	1	Surface	Uranium-234	pCi/g	1.43E+02	1.20E+05		2.58E+01	2.63E+03
541	1	Surface	Uranium-235	pCi/g	1.76E+01	1.48E+04		3.17E+00	3.23E+02
541	1	Surface	Uranium-238	pCi/g	1.00E+03	8.41E+05		1.81E+02	1.84E+04
541	1	Surface	Vanadium	mg/kg	3.04E+01	1.43E-05	2.12E-05	3.07E-09	
561	1	Surface	Antimony	mg/kg	9.36E-01	4.40E-07	1.25E-06	9.45E-11	
561	1	Surface	Arsenic	mg/kg	1.66E+01	7.77E-06	1.33E-05	1.67E-09	
561	1	Surface	Barium	mg/kg	1.40E+02	6.58E-05	1.88E-04	1.42E-08	
561	1	Surface	Beryllium	mg/kg	6.85E-01	3.22E-07	1.28E-07	6.92E-11	
561	1	Surface	Chromium	mg/kg	8.58E+01	4.03E-05	1.15E-04	8.66E-09	
561	1	Surface	Cobalt	mg/kg	1.07E+01	5.02E-06	1.43E-05	1.08E-09	
561	1	Surface	Cobalt-60	pCi/g	7.06E-02	5.93E+01		1.27E-02	1.30E+00
561	1	Surface	Iron	mg/kg	2.05E+04	9.61E-03	2.74E-02	2.07E-06	
561	1	Surface	Manganese	mg/kg	1.61E+03	7.56E-04	1.72E-03	1.62E-07	
561	1	Surface	Neptunium-237	pCi/g	2.71E-02	2.28E+01		4.89E-03	4.99E-01
561	1	Surface	PCB, Total	mg/kg	1.04E+00	4.89E-07	3.91E-06	1.79E-07	
561	1	Surface	Thallium	mg/kg	3.33E-01	1.56E-07	4.46E-07	3.36E-11	
561	1	Surface	Total PAH	mg/kg	1.65E-01	7.75E-08	5.74E-07	1.24E-09	
561	1	Surface	Uranium	mg/kg	2.65E+02	1.24E-04	3.54E-04	2.67E-08	
561	1	Surface	Uranium-234	pCi/g	7.84E+00	6.58E+03		1.42E+00	1.44E+02
561	1	Surface	Uranium-235	pCi/g	1.37E+00	1.15E+03		2.47E-01	2.51E+01
561	1	Surface	Uranium-238	pCi/g	1.07E+02	8.95E+04		1.92E+01	1.96E+03
561	1	Surface	Vanadium	mg/kg	3.76E+01	1.77E-05	2.62E-05	3.80E-09	
561	2	Surface	Antimony	mg/kg	5.33E+00	2.51E-06	7.14E-06	5.39E-10	
561	2	Surface	Arsenic	mg/kg	1.30E+01	6.11E-06	1.04E-05	1.31E-09	
561	2	Surface	Beryllium	mg/kg	6.34E-01	2.98E-07	1.19E-07	6.40E-11	
561	2	Surface	Cadmium	mg/kg	4.13E-01	1.94E-07	1.11E-08	4.17E-11	
561	2	Surface	Cesium-137	pCi/g	4.09E-01	3.44E+02		7.39E-02	7.53E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
561	2	Surface	Chromium	mg/kg	2.88E+02	1.35E-04	3.86E-04	2.91E-08	
561	2	Surface	Cobalt	mg/kg	1.14E+01	5.35E-06	1.53E-05	1.15E-09	
561	2	Surface	Cobalt-60	pCi/g	2.76E-02	2.32E+01		4.98E-03	5.08E-01
561	2	Surface	Manganese	mg/kg	1.12E+03	5.24E-04	1.19E-03	1.13E-07	
561	2	Surface	Neptunium-237	pCi/g	4.71E-02	3.96E+01		8.50E-03	8.67E-01
561	2	Surface	PCB, Total	mg/kg	1.64E+01	7.68E-06	6.13E-05	2.80E-06	
561	2	Surface	Thallium	mg/kg	4.09E-01	1.92E-07	5.47E-07	4.13E-11	
561	2	Surface	Total PAH	mg/kg	4.43E-01	2.08E-07	1.54E-06	3.32E-09	
561	2	Surface	Uranium	mg/kg	1.38E+03	6.50E-04	1.85E-03	1.40E-07	
561	2	Surface	Uranium-234	pCi/g	4.06E+01	3.41E+04		7.34E+00	7.48E+02
561	2	Surface	Uranium-235	pCi/g	7.09E+00	5.96E+03		1.28E+00	1.31E+02
561	2	Surface	Uranium-238	pCi/g	4.00E+02	3.36E+05		7.23E+01	7.37E+03
561	2	Surface	Vanadium	mg/kg	3.46E+01	1.62E-05	2.40E-05	3.49E-09	
562	1	Surface	Uranium	mg/kg	8.73E+01	4.10E-05	1.17E-04	8.82E-09	
562	1	Surface	Uranium-238	pCi/g	2.73E+00	2.29E+03		4.93E-01	5.03E+01
562	2	Surface	PCB, Total	mg/kg	1.58E+00	7.42E-07	5.92E-06	2.71E-07	
562	2	Surface	Uranium-234	pCi/g	5.34E+01	4.49E+04		9.64E+00	9.83E+02
562	2	Surface	Uranium-235	pCi/g	8.96E+00	7.53E+03		1.62E+00	1.65E+02
562	2	Surface	Uranium-238	pCi/g	5.81E+02	4.88E+05		1.05E+02	1.07E+04
562	3	Surface	Chromium	mg/kg	3.82E+01	1.79E-05	5.11E-05	3.85E-09	
562	3	Surface	PCB, Total	mg/kg	2.40E-01	1.13E-07	9.00E-07	4.11E-08	
562	3	Surface	Total PAH	mg/kg	2.20E-01	1.03E-07	7.66E-07	1.65E-09	
562	3	Surface	Uranium	mg/kg	5.89E+01	2.77E-05	7.88E-05	5.95E-09	
562	3	Surface	Uranium-235	pCi/g	1.63E-01	1.37E+02		2.94E-02	3.00E+00
562	3	Surface	Uranium-238	pCi/g	1.09E+01	9.16E+03		1.97E+00	2.01E+02
562	4	Surface	Chromium	mg/kg	4.67E+01	2.19E-05	6.25E-05	4.71E-09	
562	4	Surface	Uranium	mg/kg	2.10E+01	9.86E-06	2.81E-05	2.12E-09	
562	4	Surface	Uranium-238	pCi/g	2.24E+00	1.88E+03		4.04E-01	4.12E+01
562	5	Surface	Chromium	mg/kg	1.53E+02	7.19E-05	2.05E-04	1.55E-08	
562	5	Surface	PCB, Total	mg/kg	9.50E-01	4.46E-07	3.56E-06	1.63E-07	
562	5	Surface	Total PAH	mg/kg	7.05E-02	3.31E-08	2.45E-07	5.28E-10	
562	5	Surface	Uranium	mg/kg	2.08E+02	9.77E-05	2.78E-04	2.10E-08	
562	5	Surface	Uranium-234	pCi/g	8.57E+00	7.20E+03		1.55E+00	1.58E+02
562	5	Surface	Uranium-235	pCi/g	9.50E-01	7.98E+02		1.72E-01	1.75E+01
562	5	Surface	Uranium-238	pCi/g	6.24E+01	5.24E+04		1.13E+01	1.15E+03
563	1	Surface	Cadmium	mg/kg	8.96E-01	4.21E-07	2.40E-08	9.05E-11	
563	1	Surface	Chromium	mg/kg	2.85E+02	1.34E-04	3.81E-04	2.88E-08	
563	1	Surface	PCB, Total	mg/kg	7.40E-01	3.48E-07	2.77E-06	1.27E-07	
563	1	Surface	Uranium	mg/kg	1.51E+01	7.09E-06	2.02E-05	1.52E-09	
563	1	Surface	Uranium-238	pCi/g	2.76E+00	2.32E+03		4.98E-01	5.08E+01
563	2	Surface	Cesium-137	pCi/g	6.47E-01	5.43E+02		1.17E-01	1.19E+01
563	2	Surface	Uranium-238	pCi/g	1.49E+00	1.25E+03		2.69E-01	2.74E+01
564	1	Surface	Arsenic	mg/kg	4.30E+01	2.02E-05	3.45E-05	4.34E-09	
564	1	Surface	Beryllium	mg/kg	2.12E+00	9.96E-07	3.97E-07	2.14E-10	
564	1	Surface	Cadmium	mg/kg	1.96E+00	9.21E-07	5.25E-08	1.98E-10	
564	1	Surface	Cesium-137	pCi/g	6.20E-01	5.21E+02		1.12E-01	1.14E+01
564	1	Surface	Chromium	mg/kg	7.49E+01	3.52E-05	1.00E-04	7.56E-09	
564	1	Surface	Iron	mg/kg	3.66E+04	1.72E-02	4.90E-02	3.70E-06	
564	1	Surface	Mercury	mg/kg	2.30E-01	1.08E-07	3.08E-07	6.97E-07	
564	1	Surface	Nickel	mg/kg	2.24E+01	1.05E-05	2.40E-05	2.26E-09	
564	1	Surface	PCB, Total	mg/kg	1.93E+00	9.06E-07	7.23E-06	3.31E-07	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.16. Cancerous CDIs for the Future Hypothetical Adult Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
564	1	Surface	Thallium	mg/kg	2.36E+00	1.11E-06	3.16E-06	2.38E-10	
564	1	Surface	Thorium-230	pCi/g	5.01E+00	4.21E+03		9.05E-01	9.22E+01
564	1	Surface	Uranium	mg/kg	5.83E+01	2.74E-05	7.80E-05	5.89E-09	
564	1	Surface	Uranium-234	pCi/g	6.93E+00	5.82E+03		1.25E+00	1.28E+02
564	1	Surface	Uranium-235	pCi/g	3.87E-01	3.25E+02		6.99E-02	7.13E+00
564	1	Surface	Uranium-238	pCi/g	8.33E+00	7.00E+03		1.50E+00	1.53E+02
564	1	Surface	Vanadium	mg/kg	8.06E+01	3.79E-05	5.61E-05	8.14E-09	
567	3	Surface	Chromium	mg/kg	3.79E+01	1.78E-05	5.07E-05	3.83E-09	
567	4	Surface	Aluminum	mg/kg	1.25E+04	5.88E-03	1.68E-02	1.26E-06	
567	4	Surface	Chromium	mg/kg	1.63E+01	7.66E-06	2.18E-05	1.65E-09	
567	4	Surface	Uranium-238	pCi/g	1.05E+00	8.81E+02		1.89E-01	1.93E+01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
1	1	Surface	Beryllium	mg/kg	3.89E+00	4.98E-05	4.88E-06	5.35E-09
1	1	Surface	Cadmium	mg/kg	1.10E+00	1.41E-05	1.97E-07	1.51E-09
1	1	Surface	Cesium-137	pCi/g	5.91E-01	7.56E-06		8.12E-10
1	1	Surface	Chromium	mg/kg	1.28E+01	1.64E-04	1.15E-04	1.76E-08
1	1	Surface	Neptunium-237	pCi/g	4.02E-01	5.14E-06		5.52E-10
1	1	Surface	PCB, Total	mg/kg	1.76E-01	2.25E-06	4.41E-06	4.11E-07
1	1	Surface	Plutonium-239/240	pCi/g	6.14E+00	7.85E-05		8.44E-09
1	1	Surface	Thorium-230	pCi/g	4.40E+01	5.63E-04		6.05E-08
1	1	Surface	Uranium-235	pCi/g	1.06E-01	1.36E-06		1.46E-10
1	1	Surface	Uranium-238	pCi/g	1.97E+00	2.52E-05		2.71E-09
1	2	Surface	Beryllium	mg/kg	8.23E+00	1.05E-04	1.03E-05	1.13E-08
1	2	Surface	Cadmium	mg/kg	6.46E+00	8.26E-05	1.16E-06	8.88E-09
1	2	Surface	Chromium	mg/kg	2.01E+02	2.57E-03	1.80E-03	2.76E-07
1	2	Surface	Copper	mg/kg	1.81E+02	2.31E-03	1.62E-03	2.49E-07
1	2	Surface	Mercury	mg/kg	5.94E+00	7.59E-05	5.32E-05	2.45E-04
1	2	Surface	Nickel	mg/kg	5.75E+01	7.35E-04	4.11E-04	7.90E-08
1	2	Surface	PCB, Total	mg/kg	3.22E+01	4.12E-04	8.07E-04	7.52E-05
1	2	Surface	Silver	mg/kg	3.31E+01	4.24E-04	2.37E-04	4.55E-08
1	2	Surface	Thallium	mg/kg	3.70E-01	4.73E-06	3.31E-06	5.08E-10
1	2	Surface	Vanadium	mg/kg	3.49E+01	4.46E-04	1.62E-04	4.79E-08
1	3	Surface	Chromium	mg/kg	1.45E+01	1.85E-04	1.30E-04	1.99E-08
1	3	Surface	PCB, Total	mg/kg	2.17E-01	2.77E-06	5.44E-06	5.06E-07
1	3	Surface	Uranium-238	pCi/g	1.73E+00	2.21E-05		2.38E-09
1	4	Surface	Beryllium	mg/kg	7.25E-01	9.27E-06	9.08E-07	9.96E-10
1	4	Surface	Chromium	mg/kg	9.30E+01	1.19E-03	8.33E-04	1.28E-07
1	4	Surface	Cobalt-60	pCi/g	2.20E-02	2.81E-07		3.02E-11
1	4	Surface	Nickel	mg/kg	4.69E+01	5.99E-04	3.36E-04	6.44E-08
1	4	Surface	PCB, Total	mg/kg	1.30E-01	1.66E-06	3.26E-06	3.03E-07
1	4	Surface	Thorium-230	pCi/g	5.03E+00	6.43E-05		6.91E-09
1	5	Surface	Beryllium	mg/kg	8.30E+00	1.06E-04	1.04E-05	1.14E-08
1	5	Surface	Cadmium	mg/kg	1.20E+00	1.53E-05	2.15E-07	1.65E-09
1	5	Surface	Nickel	mg/kg	4.07E+01	5.20E-04	2.91E-04	5.59E-08
1	5	Surface	PCB, Total	mg/kg	2.70E-01	3.45E-06	6.77E-06	6.30E-07
1	5	Surface	Total PAH	mg/kg	9.83E-02	1.26E-06	2.29E-06	1.00E-08
12	1	Surface	Aluminum	mg/kg	8.19E+03	1.05E-01	7.33E-02	1.13E-05
12	1	Surface	Antimony	mg/kg	5.04E-01	6.44E-06	4.51E-06	6.93E-10
12	1	Surface	Arsenic	mg/kg	1.34E+01	1.71E-04	7.19E-05	1.84E-08
12	1	Surface	Barium	mg/kg	1.04E+02	1.33E-03	9.28E-04	1.43E-07
12	1	Surface	Beryllium	mg/kg	6.72E+00	8.59E-05	8.42E-06	9.23E-09
12	1	Surface	Cadmium	mg/kg	1.02E+00	1.30E-05	1.83E-07	1.40E-09
12	1	Surface	Chromium	mg/kg	6.33E+01	8.09E-04	5.67E-04	8.70E-08
12	1	Surface	Cobalt	mg/kg	9.16E+00	1.17E-04	8.20E-05	1.26E-08
12	1	Surface	Iron	mg/kg	3.01E+04	3.84E-01	2.69E-01	4.13E-05
12	1	Surface	Manganese	mg/kg	1.01E+03	1.30E-02	7.26E-03	1.39E-06
12	1	Surface	Mercury	mg/kg	8.80E+00	1.13E-04	7.88E-05	3.63E-04

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
12	1	Surface	Molybdenum	mg/kg	1.74E+01	2.23E-04	1.56E-04	2.39E-08
12	1	Surface	Nickel	mg/kg	7.74E+01	9.90E-04	5.54E-04	1.06E-07
12	1	Surface	PCB, Total	mg/kg	3.90E-01	4.99E-06	9.77E-06	9.10E-07
12	1	Surface	Silver	mg/kg	1.10E+01	1.41E-04	7.89E-05	1.51E-08
12	1	Surface	Thallium	mg/kg	1.03E+00	1.32E-05	9.22E-06	1.42E-09
12	1	Surface	Total PAH	mg/kg	1.70E-01	2.17E-06	3.96E-06	1.73E-08
12	1	Surface	Uranium	mg/kg	3.76E+02	4.80E-03	3.36E-03	5.16E-07
12	1	Surface	Uranium-234	pCi/g	1.50E+01	1.92E-04		2.06E-08
12	1	Surface	Uranium-235	pCi/g	1.53E+00	1.95E-05		2.10E-09
12	1	Surface	Uranium-238	pCi/g	6.68E+01	8.55E-04		9.19E-08
12	1	Surface	Vanadium	mg/kg	2.80E+01	3.58E-04	1.30E-04	3.85E-08
13	1	Surface	PCB, Total	mg/kg	7.00E-01	8.95E-06	1.75E-05	1.63E-06
13	4	Surface	Uranium-238	pCi/g	1.32E+00	1.69E-05		1.81E-09
13	5	Surface	Aluminum	mg/kg	1.13E+04	1.44E-01	1.01E-01	1.55E-05
13	5	Surface	Antimony	mg/kg	8.20E-01	1.05E-05	7.34E-06	1.13E-09
13	5	Surface	Cadmium	mg/kg	1.20E+00	1.53E-05	2.15E-07	1.65E-09
13	5	Surface	Chromium	mg/kg	1.51E+01	1.93E-04	1.35E-04	2.08E-08
13	5	Surface	Nickel	mg/kg	1.17E+02	1.49E-03	8.34E-04	1.60E-07
13	5	Surface	PCB, Total	mg/kg	1.05E+00	1.34E-05	2.63E-05	2.45E-06
13	5	Surface	Total PAH	mg/kg	6.65E-02	8.50E-07	1.55E-06	6.78E-09
13	5	Surface	Uranium	mg/kg	1.19E+02	1.52E-03	1.07E-03	1.64E-07
13	6	Surface	Uranium-238	pCi/g	1.32E+00	1.68E-05		1.81E-09
13	9	Surface	Neptunium-237	pCi/g	8.90E-01	1.14E-05		1.22E-09
13	9	Surface	Uranium	mg/kg	1.82E+01	2.33E-04	1.63E-04	2.50E-08
13	9	Surface	Uranium-235	pCi/g	3.11E-01	3.98E-06		4.27E-10
13	9	Surface	Uranium-238	pCi/g	6.08E+00	7.77E-05		8.36E-09
13	11	Surface	Cobalt-60	pCi/g	1.30E-02	1.66E-07		1.79E-11
14	1	Surface	Americium-241	pCi/g	1.27E+00	1.62E-05		1.74E-09
14	1	Surface	Arsenic	mg/kg	1.10E+01	1.40E-04	5.90E-05	1.51E-08
14	1	Surface	Chromium	mg/kg	6.36E+01	8.13E-04	5.69E-04	8.74E-08
14	1	Surface	Iron	mg/kg	1.89E+04	2.41E-01	1.69E-01	2.59E-05
14	1	Surface	Neptunium-237	pCi/g	2.14E-01	2.74E-06		2.94E-10
14	1	Surface	Nickel	mg/kg	1.40E+02	1.79E-03	1.00E-03	1.92E-07
14	1	Surface	PCB, Total	mg/kg	5.00E-01	6.39E-06	1.25E-05	1.17E-06
14	1	Surface	Silver	mg/kg	1.67E+01	2.13E-04	1.19E-04	2.29E-08
14	1	Surface	Technetium-99	pCi/g	4.06E+02	5.19E-03		5.58E-07
14	1	Surface	Uranium	mg/kg	7.21E+01	9.22E-04	6.46E-04	9.91E-08
14	1	Surface	Uranium-238	pCi/g	1.69E+00	2.16E-05		2.32E-09
14	2	Surface	Antimony	mg/kg	3.70E+00	4.73E-05	3.31E-05	5.08E-09
14	2	Surface	Arsenic	mg/kg	1.45E+01	1.86E-04	7.80E-05	2.00E-08
14	2	Surface	Beryllium	mg/kg	7.10E-01	9.08E-06	8.90E-07	9.76E-10
14	2	Surface	Chromium	mg/kg	6.65E+01	8.51E-04	5.96E-04	9.14E-08
14	2	Surface	Copper	mg/kg	1.76E+02	2.26E-03	1.58E-03	2.42E-07
14	2	Surface	Iron	mg/kg	3.72E+04	4.75E-01	3.33E-01	5.11E-05
14	2	Surface	Manganese	mg/kg	1.44E+03	1.84E-02	1.03E-02	1.98E-06

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	2	Surface	Mercury	mg/kg	2.67E-01	3.41E-06	2.39E-06	1.10E-05
14	2	Surface	Neptunium-237	pCi/g	7.70E-01	9.84E-06		1.06E-09
14	2	Surface	Nickel	mg/kg	6.78E+02	8.67E-03	4.85E-03	9.32E-07
14	2	Surface	PCB, Total	mg/kg	3.90E-01	4.99E-06	9.77E-06	9.10E-07
14	2	Surface	Thorium-230	pCi/g	5.98E+00	7.65E-05		8.22E-09
14	2	Surface	Total PAH	mg/kg	3.38E-01	4.32E-06	7.87E-06	3.45E-08
14	2	Surface	Uranium	mg/kg	2.93E+02	3.75E-03	2.62E-03	4.03E-07
14	2	Surface	Uranium-234	pCi/g	3.24E+01	4.14E-04		4.45E-08
14	2	Surface	Uranium-235	pCi/g	2.00E+00	2.56E-05		2.75E-09
14	2	Surface	Uranium-238	pCi/g	5.61E+01	7.17E-04		7.71E-08
14	3	Surface	Arsenic	mg/kg	1.30E+01	1.66E-04	6.96E-05	1.78E-08
14	3	Surface	Chromium	mg/kg	7.01E+01	8.97E-04	6.28E-04	9.64E-08
14	3	Surface	Copper	mg/kg	1.29E+02	1.65E-03	1.16E-03	1.78E-07
14	3	Surface	Iron	mg/kg	3.48E+04	4.45E-01	3.12E-01	4.79E-05
14	3	Surface	Manganese	mg/kg	1.06E+03	1.35E-02	7.57E-03	1.45E-06
14	3	Surface	Mercury	mg/kg	7.48E+00	9.56E-05	6.69E-05	3.08E-04
14	3	Surface	Molybdenum	mg/kg	2.21E+01	2.82E-04	1.98E-04	3.03E-08
14	3	Surface	Nickel	mg/kg	5.76E+02	7.37E-03	4.13E-03	7.92E-07
14	3	Surface	PCB, Total	mg/kg	8.65E+00	1.11E-04	2.17E-04	2.02E-05
14	3	Surface	Uranium	mg/kg	2.18E+02	2.78E-03	1.95E-03	2.99E-07
14	3	Surface	Uranium-238	pCi/g	1.50E+00	1.92E-05		2.06E-09
14	4	Surface	Antimony	mg/kg	4.30E+00	5.50E-05	3.85E-05	5.91E-09
14	4	Surface	Arsenic	mg/kg	1.33E+01	1.70E-04	7.13E-05	1.82E-08
14	4	Surface	Chromium	mg/kg	7.20E+01	9.21E-04	6.45E-04	9.90E-08
14	4	Surface	Copper	mg/kg	3.54E+02	4.52E-03	3.16E-03	4.86E-07
14	4	Surface	Iron	mg/kg	3.88E+04	4.97E-01	3.48E-01	5.34E-05
14	4	Surface	Mercury	mg/kg	4.87E-01	6.23E-06	4.36E-06	2.01E-05
14	4	Surface	Neptunium-237	pCi/g	2.68E+00	3.43E-05		3.68E-09
14	4	Surface	Nickel	mg/kg	7.31E+02	9.34E-03	5.23E-03	1.00E-06
14	4	Surface	PCB, Total	mg/kg	6.61E+00	8.45E-05	1.66E-04	1.54E-05
14	4	Surface	Silver	mg/kg	1.17E+01	1.50E-04	8.38E-05	1.61E-08
14	4	Surface	Thorium-230	pCi/g	8.33E+00	1.07E-04		1.14E-08
14	4	Surface	Total PAH	mg/kg	2.51E-01	3.21E-06	5.84E-06	2.56E-08
14	4	Surface	Uranium	mg/kg	3.72E+02	4.75E-03	3.33E-03	5.11E-07
14	4	Surface	Uranium-234	pCi/g	1.13E+02	1.44E-03		1.55E-07
14	4	Surface	Uranium-235	pCi/g	8.00E+00	1.02E-04		1.10E-08
14	4	Surface	Uranium-238	pCi/g	1.69E+02	2.16E-03		2.32E-07
14	5	Surface	Antimony	mg/kg	2.30E+00	2.94E-05	2.06E-05	3.16E-09
14	5	Surface	Arsenic	mg/kg	1.31E+01	1.67E-04	7.02E-05	1.80E-08
14	5	Surface	Cadmium	mg/kg	3.90E+00	4.99E-05	6.98E-07	5.36E-09
14	5	Surface	Chromium	mg/kg	4.70E+01	6.01E-04	4.20E-04	6.45E-08
14	5	Surface	Cobalt	mg/kg	1.40E+01	1.79E-04	1.25E-04	1.92E-08
14	5	Surface	Copper	mg/kg	1.34E+02	1.71E-03	1.19E-03	1.83E-07
14	5	Surface	Iron	mg/kg	3.92E+04	5.01E-01	3.51E-01	5.39E-05
14	5	Surface	Manganese	mg/kg	8.28E+02	1.06E-02	5.93E-03	1.14E-06

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	5	Surface	Mercury	mg/kg	1.09E+01	1.40E-04	9.79E-05	4.51E-04
14	5	Surface	Neptunium-237	pCi/g	1.74E+00	2.22E-05		2.39E-09
14	5	Surface	Nickel	mg/kg	4.61E+02	5.90E-03	3.30E-03	6.34E-07
14	5	Surface	PCB, Total	mg/kg	1.00E+00	1.28E-05	2.51E-05	2.33E-06
14	5	Surface	Silver	mg/kg	1.29E+01	1.65E-04	9.21E-05	1.77E-08
14	5	Surface	Technetium-99	pCi/g	1.01E+02	1.29E-03		1.39E-07
14	5	Surface	Thallium	mg/kg	4.10E-01	5.24E-06	3.67E-06	5.63E-10
14	5	Surface	Thorium-230	pCi/g	1.39E+01	1.78E-04		1.91E-08
14	5	Surface	Total PAH	mg/kg	1.21E-01	1.55E-06	2.81E-06	1.23E-08
14	5	Surface	Uranium	mg/kg	2.62E+02	3.35E-03	2.35E-03	3.60E-07
14	5	Surface	Uranium-234	pCi/g	5.22E+01	6.67E-04		7.17E-08
14	5	Surface	Uranium-235	pCi/g	3.33E+00	4.26E-05		4.58E-09
14	5	Surface	Uranium-238	pCi/g	9.42E+01	1.20E-03		1.29E-07
14	6	Surface	Antimony	mg/kg	2.70E+00	3.45E-05	2.42E-05	3.71E-09
14	6	Surface	Cadmium	mg/kg	8.40E-01	1.07E-05	1.50E-07	1.15E-09
14	6	Surface	Chromium	mg/kg	4.46E+02	5.70E-03	3.99E-03	6.13E-07
14	6	Surface	Copper	mg/kg	1.22E+02	1.56E-03	1.09E-03	1.68E-07
14	6	Surface	Mercury	mg/kg	3.47E-01	4.44E-06	3.11E-06	1.43E-05
14	6	Surface	Neptunium-237	pCi/g	2.65E+00	3.39E-05		3.64E-09
14	6	Surface	Nickel	mg/kg	9.63E+02	1.23E-02	6.90E-03	1.32E-06
14	6	Surface	PCB, Total	mg/kg	5.00E+00	6.39E-05	1.25E-04	1.17E-05
14	6	Surface	Silver	mg/kg	1.19E+01	1.52E-04	8.51E-05	1.63E-08
14	6	Surface	Uranium	mg/kg	5.79E+02	7.40E-03	5.18E-03	7.95E-07
14	6	Surface	Uranium-234	pCi/g	3.41E+01	4.36E-04		4.69E-08
14	6	Surface	Uranium-235	pCi/g	2.27E+00	2.90E-05		3.12E-09
14	6	Surface	Uranium-238	pCi/g	5.08E+01	6.49E-04		6.98E-08
14	7	Surface	Antimony	mg/kg	7.50E-01	9.59E-06	6.71E-06	1.03E-09
14	7	Surface	Arsenic	mg/kg	1.13E+01	1.44E-04	6.07E-05	1.55E-08
14	7	Surface	Cadmium	mg/kg	2.70E+00	3.45E-05	4.83E-07	3.71E-09
14	7	Surface	Chromium	mg/kg	6.46E+01	8.25E-04	5.78E-04	8.87E-08
14	7	Surface	Mercury	mg/kg	7.82E+00	1.00E-04	7.00E-05	3.22E-04
14	7	Surface	Neptunium-237	pCi/g	1.49E+00	1.91E-05		2.05E-09
14	7	Surface	Nickel	mg/kg	1.22E+03	1.56E-02	8.76E-03	1.68E-06
14	7	Surface	PCB, Total	mg/kg	7.60E+00	9.72E-05	1.91E-04	1.77E-05
14	7	Surface	Total PAH	mg/kg	6.31E-02	8.07E-07	1.47E-06	6.44E-09
14	7	Surface	Uranium	mg/kg	3.33E+02	4.26E-03	2.98E-03	4.57E-07
14	7	Surface	Uranium-234	pCi/g	1.28E+01	1.64E-04		1.76E-08
14	7	Surface	Uranium-235	pCi/g	9.60E-01	1.23E-05		1.32E-09
14	7	Surface	Uranium-238	pCi/g	2.13E+01	2.72E-04		2.93E-08
14	8	Surface	Antimony	mg/kg	6.10E-01	7.80E-06	5.46E-06	8.38E-10
14	8	Surface	Arsenic	mg/kg	1.14E+01	1.45E-04	6.11E-05	1.56E-08
14	8	Surface	Chromium	mg/kg	4.60E+01	5.89E-04	4.12E-04	6.33E-08
14	8	Surface	Mercury	mg/kg	7.90E+00	1.01E-04	7.07E-05	3.26E-04
14	8	Surface	Neptunium-237	pCi/g	8.80E-01	1.13E-05		1.21E-09
14	8	Surface	Nickel	mg/kg	6.73E+02	8.60E-03	4.81E-03	9.24E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	8	Surface	PCB, Total	mg/kg	5.00E+00	6.39E-05	1.25E-04	1.17E-05
14	8	Surface	Silver	mg/kg	9.63E+00	1.23E-04	6.89E-05	1.32E-08
14	8	Surface	Total PAH	mg/kg	6.28E-02	8.02E-07	1.46E-06	6.40E-09
14	8	Surface	Uranium	mg/kg	3.35E+02	4.29E-03	3.00E-03	4.61E-07
14	8	Surface	Uranium-235	pCi/g	2.38E-01	3.04E-06		3.27E-10
14	8	Surface	Uranium-238	pCi/g	5.92E+00	7.57E-05		8.14E-09
14	9	Surface	Antimony	mg/kg	2.00E+00	2.56E-05	1.79E-05	2.75E-09
14	9	Surface	Arsenic	mg/kg	1.40E+01	1.80E-04	7.54E-05	1.93E-08
14	9	Surface	Cadmium	mg/kg	9.40E-01	1.20E-05	1.68E-07	1.29E-09
14	9	Surface	Cesium-137	pCi/g	4.53E-01	5.79E-06		6.23E-10
14	9	Surface	Chromium	mg/kg	4.64E+01	5.94E-04	4.16E-04	6.38E-08
14	9	Surface	Mercury	mg/kg	1.13E+00	1.44E-05	1.01E-05	4.66E-05
14	9	Surface	Neptunium-237	pCi/g	1.09E+01	1.40E-04		1.50E-08
14	9	Surface	Nickel	mg/kg	9.43E+02	1.21E-02	6.75E-03	1.30E-06
14	9	Surface	PCB, Total	mg/kg	6.84E+00	8.75E-05	1.71E-04	1.60E-05
14	9	Surface	Technetium-99	pCi/g	1.96E+02	2.50E-03		2.69E-07
14	9	Surface	Total PAH	mg/kg	4.87E-01	6.23E-06	1.13E-05	4.97E-08
14	9	Surface	Uranium	mg/kg	1.46E+03	1.87E-02	1.31E-02	2.01E-06
14	9	Surface	Uranium-234	pCi/g	8.32E+02	1.06E-02		1.14E-06
14	9	Surface	Uranium-235	pCi/g	5.46E+01	6.97E-04		7.50E-08
14	9	Surface	Uranium-238	pCi/g	1.20E+03	1.53E-02		1.65E-06
14	10	Surface	Antimony	mg/kg	9.40E-01	1.20E-05	8.41E-06	1.29E-09
14	10	Surface	Arsenic	mg/kg	1.12E+01	1.44E-04	6.04E-05	1.54E-08
14	10	Surface	Chromium	mg/kg	4.19E+01	5.35E-04	3.75E-04	5.75E-08
14	10	Surface	Copper	mg/kg	1.41E+02	1.81E-03	1.26E-03	1.94E-07
14	10	Surface	Iron	mg/kg	2.75E+04	3.51E-01	2.46E-01	3.77E-05
14	10	Surface	Mercury	mg/kg	2.51E+01	3.21E-04	2.25E-04	1.03E-03
14	10	Surface	Neptunium-237	pCi/g	2.64E+00	3.38E-05		3.63E-09
14	10	Surface	Nickel	mg/kg	6.00E+02	7.68E-03	4.30E-03	8.25E-07
14	10	Surface	PCB, Total	mg/kg	9.38E+00	1.20E-04	2.35E-04	2.19E-05
14	10	Surface	Total PAH	mg/kg	2.72E-01	3.47E-06	6.32E-06	2.77E-08
14	10	Surface	Uranium	mg/kg	2.88E+02	3.69E-03	2.58E-03	3.96E-07
14	10	Surface	Uranium-234	pCi/g	2.42E+01	3.09E-04		3.33E-08
14	10	Surface	Uranium-235	pCi/g	1.76E+00	2.25E-05		2.42E-09
14	10	Surface	Uranium-238	pCi/g	4.09E+01	5.23E-04		5.62E-08
15	1	Surface	Antimony	mg/kg	6.40E-01	8.18E-06	5.73E-06	8.80E-10
15	1	Surface	Arsenic	mg/kg	1.24E+01	1.58E-04	6.64E-05	1.70E-08
15	1	Surface	Chromium	mg/kg	5.61E+01	7.17E-04	5.02E-04	7.71E-08
15	1	Surface	Copper	mg/kg	1.95E+02	2.49E-03	1.74E-03	2.68E-07
15	1	Surface	Iron	mg/kg	2.95E+04	3.77E-01	2.64E-01	4.06E-05
15	1	Surface	Nickel	mg/kg	1.33E+02	1.70E-03	9.49E-04	1.82E-07
15	1	Surface	PCB, Total	mg/kg	7.80E-02	9.97E-07	1.95E-06	1.82E-07
15	1	Surface	Silver	mg/kg	1.23E+01	1.57E-04	8.80E-05	1.69E-08
15	1	Surface	Total PAH	mg/kg	1.71E+00	2.19E-05	3.99E-05	1.75E-07
15	1	Surface	Uranium	mg/kg	3.09E+01	3.95E-04	2.77E-04	4.25E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	1	Surface	Uranium-238	pCi/g	1.85E+00	2.37E-05		2.54E-09
15	2	Surface	Antimony	mg/kg	6.60E-01	8.44E-06	5.91E-06	9.07E-10
15	2	Surface	Arsenic	mg/kg	1.63E+01	2.08E-04	8.73E-05	2.23E-08
15	2	Surface	Chromium	mg/kg	5.90E+01	7.54E-04	5.28E-04	8.11E-08
15	2	Surface	Iron	mg/kg	3.89E+04	4.97E-01	3.48E-01	5.34E-05
15	2	Surface	Mercury	mg/kg	9.33E+00	1.19E-04	8.35E-05	3.85E-04
15	2	Surface	Neptunium-237	pCi/g	1.35E-01	1.73E-06		1.86E-10
15	2	Surface	Nickel	mg/kg	1.97E+02	2.52E-03	1.41E-03	2.71E-07
15	2	Surface	PCB, Total	mg/kg	3.30E-01	4.22E-06	8.27E-06	7.70E-07
15	2	Surface	Total PAH	mg/kg	2.11E+00	2.69E-05	4.90E-05	2.15E-07
15	2	Surface	Uranium	mg/kg	1.32E+02	1.68E-03	1.18E-03	1.81E-07
15	2	Surface	Uranium-234	pCi/g	6.51E+00	8.32E-05		8.95E-09
15	2	Surface	Uranium-235	pCi/g	3.80E-01	4.86E-06		5.22E-10
15	2	Surface	Uranium-238	pCi/g	1.21E+01	1.55E-04		1.66E-08
15	3	Surface	Antimony	mg/kg	2.45E+01	3.13E-04	2.19E-04	3.37E-08
15	3	Surface	Arsenic	mg/kg	2.60E+01	3.32E-04	1.40E-04	3.57E-08
15	3	Surface	Beryllium	mg/kg	7.60E-01	9.72E-06	9.52E-07	1.04E-09
15	3	Surface	Cadmium	mg/kg	1.19E+01	1.52E-04	2.13E-06	1.64E-08
15	3	Surface	Chromium	mg/kg	7.53E+01	9.63E-04	6.74E-04	1.04E-07
15	3	Surface	Cobalt	mg/kg	3.41E+01	4.36E-04	3.05E-04	4.69E-08
15	3	Surface	Copper	mg/kg	1.40E+03	1.78E-02	1.25E-02	1.92E-06
15	3	Surface	Iron	mg/kg	9.20E+04	1.18E+00	8.23E-01	1.26E-04
15	3	Surface	Manganese	mg/kg	1.60E+03	2.05E-02	1.15E-02	2.20E-06
15	3	Surface	Mercury	mg/kg	2.74E+00	3.50E-05	2.45E-05	1.13E-04
15	3	Surface	Molybdenum	mg/kg	1.70E+01	2.17E-04	1.52E-04	2.34E-08
15	3	Surface	Neptunium-237	pCi/g	4.10E+00	5.24E-05		5.63E-09
15	3	Surface	Nickel	mg/kg	7.57E+02	9.67E-03	5.42E-03	1.04E-06
15	3	Surface	PCB, Total	mg/kg	6.82E+00	8.72E-05	1.71E-04	1.59E-05
15	3	Surface	Selenium	mg/kg	2.65E+01	3.38E-04	2.37E-04	3.63E-08
15	3	Surface	Silver	mg/kg	3.20E+00	4.09E-05	2.29E-05	4.40E-09
15	3	Surface	Technetium-99	pCi/g	3.67E+02	4.69E-03		5.04E-07
15	3	Surface	Thorium-230	pCi/g	7.23E+00	9.24E-05		9.94E-09
15	3	Surface	Total PAH	mg/kg	1.45E+00	1.86E-05	3.38E-05	1.48E-07
15	3	Surface	Uranium	mg/kg	2.16E+02	2.76E-03	1.93E-03	2.97E-07
15	3	Surface	Uranium-234	pCi/g	6.96E+01	8.90E-04		9.56E-08
15	3	Surface	Uranium-235	pCi/g	4.21E+00	5.38E-05		5.79E-09
15	3	Surface	Uranium-238	pCi/g	9.67E+01	1.24E-03		1.33E-07
15	3	Surface	Zinc	mg/kg	8.79E+02	1.12E-02	7.87E-03	1.21E-06
15	4	Surface	Antimony	mg/kg	7.40E+00	9.46E-05	6.62E-05	1.02E-08
15	4	Surface	Arsenic	mg/kg	3.47E+01	4.43E-04	1.86E-04	4.76E-08
15	4	Surface	Cadmium	mg/kg	1.40E+00	1.79E-05	2.51E-07	1.92E-09
15	4	Surface	Chromium	mg/kg	1.02E+02	1.31E-03	9.15E-04	1.40E-07
15	4	Surface	Copper	mg/kg	7.05E+02	9.01E-03	6.31E-03	9.69E-07
15	4	Surface	Iron	mg/kg	7.81E+04	9.99E-01	6.99E-01	1.07E-04
15	4	Surface	Manganese	mg/kg	1.54E+03	1.96E-02	1.10E-02	2.11E-06

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	4	Surface	Mercury	mg/kg	1.41E+01	1.80E-04	1.26E-04	5.81E-04
15	4	Surface	Neptunium-237	pCi/g	8.00E-01	1.02E-05		1.10E-09
15	4	Surface	Nickel	mg/kg	1.37E+03	1.76E-02	9.84E-03	1.89E-06
15	4	Surface	PCB, Total	mg/kg	2.67E+01	3.42E-04	6.70E-04	6.24E-05
15	4	Surface	Silver	mg/kg	1.46E+01	1.87E-04	1.05E-04	2.01E-08
15	4	Surface	Total PAH	mg/kg	2.44E+00	3.13E-05	5.69E-05	2.49E-07
15	4	Surface	Uranium	mg/kg	1.57E+02	2.00E-03	1.40E-03	2.15E-07
15	4	Surface	Uranium-234	pCi/g	1.07E+01	1.37E-04		1.47E-08
15	4	Surface	Uranium-235	pCi/g	4.30E-01	5.50E-06		5.91E-10
15	4	Surface	Uranium-238	pCi/g	1.87E+01	2.39E-04		2.57E-08
15	4	Surface	Zinc	mg/kg	1.19E+03	1.52E-02	1.06E-02	1.63E-06
15	5	Surface	Antimony	mg/kg	3.10E+00	3.96E-05	2.77E-05	4.26E-09
15	5	Surface	Arsenic	mg/kg	1.28E+01	1.64E-04	6.87E-05	1.76E-08
15	5	Surface	Cadmium	mg/kg	1.50E+00	1.92E-05	2.68E-07	2.06E-09
15	5	Surface	Chromium	mg/kg	4.28E+01	5.47E-04	3.83E-04	5.88E-08
15	5	Surface	Copper	mg/kg	5.63E+03	7.20E-02	5.04E-02	7.74E-06
15	5	Surface	Mercury	mg/kg	3.38E-01	4.32E-06	3.03E-06	1.39E-05
15	5	Surface	Neptunium-237	pCi/g	6.90E-01	8.82E-06		9.48E-10
15	5	Surface	Nickel	mg/kg	5.10E+02	6.52E-03	3.65E-03	7.01E-07
15	5	Surface	PCB, Total	mg/kg	2.51E+01	3.21E-04	6.30E-04	5.86E-05
15	5	Surface	Silver	mg/kg	1.46E+01	1.87E-04	1.05E-04	2.01E-08
15	5	Surface	Technetium-99	pCi/g	1.07E+02	1.37E-03		1.47E-07
15	5	Surface	Total PAH	mg/kg	5.11E-01	6.53E-06	1.19E-05	5.21E-08
15	5	Surface	Uranium	mg/kg	2.13E+02	2.73E-03	1.91E-03	2.93E-07
15	5	Surface	Uranium-234	pCi/g	5.83E+00	7.45E-05		8.01E-09
15	5	Surface	Uranium-235	pCi/g	4.60E-01	5.88E-06		6.32E-10
15	5	Surface	Uranium-238	pCi/g	1.03E+01	1.32E-04		1.42E-08
15	5	Surface	Zinc	mg/kg	1.52E+03	1.95E-02	1.36E-02	2.09E-06
15	6	Surface	Antimony	mg/kg	5.10E+00	6.52E-05	4.56E-05	7.01E-09
15	6	Surface	Arsenic	mg/kg	1.24E+01	1.59E-04	6.67E-05	1.71E-08
15	6	Surface	Cadmium	mg/kg	1.50E+00	1.92E-05	2.68E-07	2.06E-09
15	6	Surface	Chromium	mg/kg	5.80E+01	7.41E-04	5.19E-04	7.97E-08
15	6	Surface	Cobalt	mg/kg	1.62E+01	2.07E-04	1.45E-04	2.23E-08
15	6	Surface	Copper	mg/kg	4.23E+02	5.41E-03	3.78E-03	5.81E-07
15	6	Surface	Iron	mg/kg	3.15E+04	4.03E-01	2.82E-01	4.33E-05
15	6	Surface	Mercury	mg/kg	4.10E-01	5.24E-06	3.67E-06	1.69E-05
15	6	Surface	Neptunium-237	pCi/g	6.40E-01	8.18E-06		8.80E-10
15	6	Surface	Nickel	mg/kg	3.24E+02	4.14E-03	2.32E-03	4.45E-07
15	6	Surface	PCB, Total	mg/kg	6.17E+00	7.88E-05	1.54E-04	1.44E-05
15	6	Surface	Silver	mg/kg	1.09E+01	1.39E-04	7.81E-05	1.50E-08
15	6	Surface	Total PAH	mg/kg	1.62E+00	2.08E-05	3.78E-05	1.66E-07
15	6	Surface	Uranium	mg/kg	6.70E+01	8.57E-04	6.00E-04	9.21E-08
15	6	Surface	Uranium-234	pCi/g	8.74E+00	1.12E-04		1.20E-08
15	6	Surface	Uranium-235	pCi/g	5.70E-01	7.29E-06		7.83E-10
15	6	Surface	Uranium-238	pCi/g	1.54E+01	1.97E-04		2.12E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	7	Surface	Antimony	mg/kg	7.50E-01	9.59E-06	6.71E-06	1.03E-09
15	7	Surface	Arsenic	mg/kg	1.61E+01	2.06E-04	8.63E-05	2.21E-08
15	7	Surface	Cadmium	mg/kg	1.00E+00	1.28E-05	1.79E-07	1.37E-09
15	7	Surface	Chromium	mg/kg	7.87E+01	1.01E-03	7.04E-04	1.08E-07
15	7	Surface	Copper	mg/kg	7.33E+02	9.37E-03	6.56E-03	1.01E-06
15	7	Surface	Iron	mg/kg	3.42E+04	4.37E-01	3.06E-01	4.70E-05
15	7	Surface	Manganese	mg/kg	1.11E+03	1.41E-02	7.91E-03	1.52E-06
15	7	Surface	Neptunium-237	pCi/g	2.23E-01	2.85E-06		3.06E-10
15	7	Surface	Nickel	mg/kg	5.59E+02	7.14E-03	4.00E-03	7.68E-07
15	7	Surface	PCB, Total	mg/kg	2.57E+01	3.28E-04	6.43E-04	5.99E-05
15	7	Surface	Silver	mg/kg	1.29E+01	1.64E-04	9.21E-05	1.77E-08
15	7	Surface	Total PAH	mg/kg	1.59E-01	2.03E-06	3.70E-06	1.62E-08
15	7	Surface	Uranium	mg/kg	5.39E+01	6.89E-04	4.82E-04	7.41E-08
15	7	Surface	Uranium-234	pCi/g	6.49E+00	8.30E-05		8.92E-09
15	7	Surface	Uranium-235	pCi/g	4.50E-01	5.75E-06		6.18E-10
15	7	Surface	Uranium-238	pCi/g	8.05E+00	1.03E-04		1.11E-08
15	7	Surface	Zinc	mg/kg	5.87E+02	7.51E-03	5.25E-03	8.07E-07
15	8	Surface	Antimony	mg/kg	5.40E+00	6.90E-05	4.83E-05	7.42E-09
15	8	Surface	Arsenic	mg/kg	1.17E+01	1.49E-04	6.26E-05	1.60E-08
15	8	Surface	Chromium	mg/kg	7.74E+01	9.89E-04	6.93E-04	1.06E-07
15	8	Surface	Copper	mg/kg	1.62E+02	2.07E-03	1.45E-03	2.22E-07
15	8	Surface	Iron	mg/kg	2.83E+04	3.61E-01	2.53E-01	3.88E-05
15	8	Surface	Mercury	mg/kg	1.00E+01	1.28E-04	8.99E-05	4.14E-04
15	8	Surface	Neptunium-237	pCi/g	3.65E-01	4.67E-06		5.02E-10
15	8	Surface	Nickel	mg/kg	1.82E+02	2.32E-03	1.30E-03	2.50E-07
15	8	Surface	PCB, Total	mg/kg	4.90E+00	6.26E-05	1.23E-04	1.14E-05
15	8	Surface	Silver	mg/kg	1.36E+01	1.73E-04	9.70E-05	1.86E-08
15	8	Surface	Total PAH	mg/kg	3.59E-01	4.59E-06	8.35E-06	3.66E-08
15	8	Surface	Uranium	mg/kg	4.46E+01	5.70E-04	3.99E-04	6.12E-08
15	8	Surface	Uranium-235	pCi/g	3.04E-01	3.89E-06		4.18E-10
15	8	Surface	Uranium-238	pCi/g	6.64E+00	8.49E-05		9.12E-09
15	9	Surface	Arsenic	mg/kg	1.10E+01	1.41E-04	5.93E-05	1.52E-08
15	9	Surface	Chromium	mg/kg	9.56E+01	1.22E-03	8.56E-04	1.31E-07
15	9	Surface	Copper	mg/kg	1.36E+02	1.74E-03	1.22E-03	1.87E-07
15	9	Surface	Iron	mg/kg	2.76E+04	3.53E-01	2.47E-01	3.79E-05
15	9	Surface	Neptunium-237	pCi/g	1.28E-01	1.64E-06		1.76E-10
15	9	Surface	Nickel	mg/kg	1.49E+02	1.90E-03	1.07E-03	2.05E-07
15	9	Surface	PCB, Total	mg/kg	3.30E-01	4.22E-06	8.27E-06	7.70E-07
15	9	Surface	Silver	mg/kg	1.54E+01	1.97E-04	1.10E-04	2.12E-08
15	9	Surface	Total PAH	mg/kg	2.38E-01	3.05E-06	5.55E-06	2.43E-08
15	9	Surface	Uranium	mg/kg	3.07E+01	3.92E-04	2.74E-04	4.21E-08
15	9	Surface	Uranium-235	pCi/g	2.42E-01	3.09E-06		3.33E-10
15	9	Surface	Uranium-238	pCi/g	7.12E+00	9.10E-05		9.78E-09
15	10	Surface	Chromium	mg/kg	3.55E+01	4.54E-04	3.18E-04	4.88E-08
15	10	Surface	Mercury	mg/kg	7.84E+00	1.00E-04	7.02E-05	3.23E-04

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	10	Surface	Nickel	mg/kg	1.46E+02	1.86E-03	1.04E-03	2.00E-07
15	10	Surface	Silver	mg/kg	1.08E+01	1.38E-04	7.74E-05	1.49E-08
15	10	Surface	Total PAH	mg/kg	1.28E-01	1.64E-06	2.99E-06	1.31E-08
15	10	Surface	Uranium	mg/kg	6.47E+01	8.28E-04	5.79E-04	8.90E-08
16	1	Surface	Cesium-137	pCi/g	1.10E+00	1.41E-05		1.51E-09
16	1	Surface	PCB, Total	mg/kg	9.60E-02	1.23E-06	2.41E-06	2.24E-07
16	1	Surface	Total PAH	mg/kg	2.72E-02	3.48E-07	6.33E-07	2.77E-09
16	2	Surface	Beryllium	mg/kg	8.40E-01	1.07E-05	1.05E-06	1.15E-09
16	2	Surface	Chromium	mg/kg	2.04E+01	2.61E-04	1.83E-04	2.80E-08
16	2	Surface	Nickel	mg/kg	2.16E+01	2.76E-04	1.55E-04	2.97E-08
16	3	Surface	PCB, Total	mg/kg	9.49E-01	1.21E-05	2.38E-05	2.21E-06
16	4	Surface	Cesium-137	pCi/g	3.66E+01	4.68E-04		5.03E-08
16	4	Surface	Cobalt-60	pCi/g	8.53E-03	1.09E-07		1.17E-11
16	4	Surface	Neptunium-237	pCi/g	7.12E+00	9.10E-05		9.78E-09
16	4	Surface	PCB, Total	mg/kg	3.20E-01	4.09E-06	8.02E-06	7.47E-07
16	4	Surface	Technetium-99	pCi/g	2.96E+02	3.78E-03		4.06E-07
16	4	Surface	Thorium-230	pCi/g	5.29E+00	6.76E-05		7.27E-09
16	4	Surface	Total PAH	mg/kg	2.93E+00	3.74E-05	6.81E-05	2.99E-07
16	4	Surface	Uranium-234	pCi/g	1.19E+02	1.52E-03		1.64E-07
16	4	Surface	Uranium-235	pCi/g	8.23E+00	1.05E-04		1.13E-08
16	4	Surface	Uranium-238	pCi/g	2.70E+02	3.45E-03		3.71E-07
19	1	Surface	Beryllium	mg/kg	1.10E+00	1.41E-05	1.38E-06	1.51E-09
19	1	Surface	Cadmium	mg/kg	1.20E+00	1.53E-05	2.15E-07	1.65E-09
19	1	Surface	Thallium	mg/kg	9.80E-01	1.25E-05	8.77E-06	1.35E-09
19	1	Surface	Total PAH	mg/kg	5.23E+00	6.68E-05	1.22E-04	5.33E-07
26	1	Surface	Arsenic	mg/kg	1.29E+01	1.65E-04	6.92E-05	1.77E-08
26	1	Surface	Beryllium	mg/kg	6.69E-01	8.55E-06	8.38E-07	9.19E-10
26	1	Surface	Cadmium	mg/kg	1.99E+00	2.55E-05	3.57E-07	2.74E-09
26	1	Surface	Cesium-137	pCi/g	3.16E+00	4.05E-05		4.35E-09
26	1	Surface	Chromium	mg/kg	1.90E+01	2.43E-04	1.70E-04	2.61E-08
26	1	Surface	Cobalt-60	pCi/g	1.93E-03	2.47E-08		2.65E-12
26	1	Surface	Mercury	mg/kg	1.66E-01	2.12E-06	1.49E-06	6.84E-06
26	1	Surface	Neptunium-237	pCi/g	2.61E-01	3.34E-06		3.59E-10
26	1	Surface	Nickel	mg/kg	1.76E+01	2.25E-04	1.26E-04	2.42E-08
26	1	Surface	PCB, Total	mg/kg	9.33E-01	1.19E-05	2.34E-05	2.18E-06
26	1	Surface	Plutonium-239/240	pCi/g	4.04E+00	5.16E-05		5.55E-09
26	1	Surface	Thorium-230	pCi/g	3.82E+00	4.88E-05		5.25E-09
26	1	Surface	Total PAH	mg/kg	5.00E-02	6.39E-07	1.16E-06	5.10E-09
26	1	Surface	Uranium	mg/kg	1.29E+02	1.65E-03	1.15E-03	1.77E-07
26	1	Surface	Uranium-234	pCi/g	4.67E+00	5.96E-05		6.41E-09
26	1	Surface	Uranium-235	pCi/g	6.41E-01	8.20E-06		8.81E-10
26	1	Surface	Uranium-238	pCi/g	3.47E+01	4.43E-04		4.76E-08
26	2	Surface	Aluminum	mg/kg	2.17E+04	2.77E-01	1.94E-01	2.98E-05
26	2	Surface	Arsenic	mg/kg	4.72E+01	6.04E-04	2.54E-04	6.49E-08
26	2	Surface	Barium	mg/kg	1.49E+02	1.90E-03	1.33E-03	2.04E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
26	2	Surface	Beryllium	mg/kg	9.69E+00	1.24E-04	1.21E-05	1.33E-08
26	2	Surface	Cadmium	mg/kg	2.38E+00	3.04E-05	4.26E-07	3.27E-09
26	2	Surface	Cesium-137	pCi/g	5.92E+00	7.57E-05		8.14E-09
26	2	Surface	Chromium	mg/kg	3.90E+01	4.99E-04	3.49E-04	5.36E-08
26	2	Surface	Cobalt	mg/kg	5.20E+01	6.65E-04	4.65E-04	7.14E-08
26	2	Surface	Copper	mg/kg	1.31E+02	1.67E-03	1.17E-03	1.80E-07
26	2	Surface	Iron	mg/kg	5.32E+04	6.80E-01	4.76E-01	7.31E-05
26	2	Surface	Neptunium-237	pCi/g	7.89E-01	1.01E-05		1.08E-09
26	2	Surface	Nickel	mg/kg	1.13E+02	1.45E-03	8.10E-04	1.55E-07
26	2	Surface	PCB, Total	mg/kg	2.23E+00	2.85E-05	5.59E-05	5.20E-06
26	2	Surface	Thallium	mg/kg	1.39E+01	1.78E-04	1.24E-04	1.91E-08
26	2	Surface	Thorium-230	pCi/g	1.51E+01	1.93E-04		2.08E-08
26	2	Surface	Uranium	mg/kg	6.46E+02	8.26E-03	5.78E-03	8.88E-07
26	2	Surface	Uranium-234	pCi/g	1.91E+01	2.44E-04		2.62E-08
26	2	Surface	Uranium-235	pCi/g	1.71E+00	2.18E-05		2.35E-09
26	2	Surface	Uranium-238	pCi/g	5.14E+01	6.58E-04		7.07E-08
26	2	Surface	Vanadium	mg/kg	3.13E+01	4.00E-04	1.45E-04	4.29E-08
26	3	Surface	Aluminum	mg/kg	9.55E+03	1.22E-01	8.54E-02	1.31E-05
26	3	Surface	Antimony	mg/kg	1.40E+00	1.79E-05	1.25E-05	1.92E-09
26	3	Surface	Arsenic	mg/kg	5.09E+01	6.51E-04	2.73E-04	6.99E-08
26	3	Surface	Barium	mg/kg	4.48E+02	5.72E-03	4.01E-03	6.15E-07
26	3	Surface	Beryllium	mg/kg	2.54E+00	3.24E-05	3.18E-06	3.48E-09
26	3	Surface	Cadmium	mg/kg	2.34E+00	2.99E-05	4.19E-07	3.22E-09
26	3	Surface	Cesium-137	pCi/g	7.48E-01	9.56E-06		1.03E-09
26	3	Surface	Chromium	mg/kg	3.25E+01	4.16E-04	2.91E-04	4.47E-08
26	3	Surface	Cobalt	mg/kg	1.21E+01	1.55E-04	1.08E-04	1.66E-08
26	3	Surface	Mercury	mg/kg	3.87E-01	4.95E-06	3.46E-06	1.60E-05
26	3	Surface	Naphthalene	mg/kg	1.32E+00	1.69E-05	5.91E-05	6.09E-05
26	3	Surface	Neptunium-237	pCi/g	7.53E-01	9.63E-06		1.03E-09
26	3	Surface	Nickel	mg/kg	2.97E+01	3.80E-04	2.13E-04	4.08E-08
26	3	Surface	PCB, Total	mg/kg	2.52E+00	3.22E-05	6.31E-05	5.88E-06
26	3	Surface	Silver	mg/kg	2.59E+01	3.31E-04	1.85E-04	3.56E-08
26	3	Surface	Technetium-99	pCi/g	6.48E+01	8.28E-04		8.90E-08
26	3	Surface	Thallium	mg/kg	6.00E-01	7.67E-06	5.37E-06	8.25E-10
26	3	Surface	Thorium-230	pCi/g	7.10E+00	9.07E-05		9.75E-09
26	3	Surface	Total PAH	mg/kg	1.19E+00	1.52E-05	2.76E-05	1.21E-07
26	3	Surface	Uranium	mg/kg	9.88E+01	1.26E-03	8.84E-04	1.36E-07
26	3	Surface	Uranium-234	pCi/g	4.63E+01	5.92E-04		6.37E-08
26	3	Surface	Uranium-235	pCi/g	1.69E+00	2.16E-05		2.32E-09
26	3	Surface	Uranium-238	pCi/g	5.19E+01	6.63E-04		7.13E-08
26	3	Surface	Vanadium	mg/kg	3.77E+01	4.82E-04	1.75E-04	5.18E-08
26	4	Surface	Aluminum	mg/kg	1.07E+04	1.36E-01	9.55E-02	1.47E-05
26	4	Surface	Americium-241	pCi/g	1.27E+00	1.63E-05		1.75E-09
26	4	Surface	Antimony	mg/kg	6.00E-01	7.67E-06	5.37E-06	8.25E-10
26	4	Surface	Beryllium	mg/kg	6.91E-01	8.83E-06	8.66E-07	9.50E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
26	4	Surface	Cadmium	mg/kg	1.99E+00	2.55E-05	3.56E-07	2.74E-09
26	4	Surface	Cesium-137	pCi/g	6.38E-01	8.16E-06		8.77E-10
26	4	Surface	Chromium	mg/kg	8.57E+01	1.10E-03	7.67E-04	1.18E-07
26	4	Surface	Cobalt-60	pCi/g	1.21E-03	1.55E-08		1.66E-12
26	4	Surface	Copper	mg/kg	1.16E+02	1.48E-03	1.04E-03	1.59E-07
26	4	Surface	Mercury	mg/kg	3.07E+00	3.93E-05	2.75E-05	1.27E-04
26	4	Surface	Neptunium-237	pCi/g	1.36E+01	1.73E-04		1.86E-08
26	4	Surface	Nickel	mg/kg	7.54E+01	9.64E-04	5.40E-04	1.04E-07
26	4	Surface	PCB, Total	mg/kg	5.54E-01	7.08E-06	1.39E-05	1.29E-06
26	4	Surface	Plutonium-239/240	pCi/g	5.00E+00	6.40E-05		6.88E-09
26	4	Surface	Technetium-99	pCi/g	5.97E+02	7.64E-03		8.21E-07
26	4	Surface	Thorium-230	pCi/g	3.26E+01	4.17E-04		4.48E-08
26	4	Surface	Total PAH	mg/kg	2.83E-02	3.62E-07	6.59E-07	2.89E-09
26	4	Surface	Uranium	mg/kg	9.75E+02	1.25E-02	8.73E-03	1.34E-06
26	4	Surface	Uranium-234	pCi/g	1.54E+02	1.97E-03		2.12E-07
26	4	Surface	Uranium-235	pCi/g	8.80E+00	1.13E-04		1.21E-08
26	4	Surface	Uranium-235	pCi/g	3.19E+01	4.08E-04		4.38E-08
26	4	Surface	Uranium-238	pCi/g				
47	1	Surface	Aluminum	mg/kg	1.50E+04	1.92E-01	1.34E-01	2.06E-05
47	1	Surface	Antimony	mg/kg	9.00E-01	1.15E-05	8.05E-06	1.24E-09
47	1	Surface	Arsenic	mg/kg	4.52E+01	5.78E-04	2.43E-04	6.21E-08
47	1	Surface	Beryllium	mg/kg	7.00E-01	8.95E-06	8.77E-07	9.62E-10
47	1	Surface	Cadmium	mg/kg	4.25E+00	5.43E-05	7.61E-07	5.84E-09
47	1	Surface	Chromium	mg/kg	5.39E+01	6.89E-04	4.82E-04	7.41E-08
47	1	Surface	Cobalt	mg/kg	1.43E+01	1.83E-04	1.28E-04	1.97E-08
47	1	Surface	Iron	mg/kg	2.95E+04	3.77E-01	2.64E-01	4.05E-05
47	1	Surface	Naphthalene	mg/kg	1.90E+00	2.43E-05	8.50E-05	8.77E-05
47	1	Surface	Neptunium-237	pCi/g	1.15E-01	1.47E-06		1.58E-10
47	1	Surface	Nickel	mg/kg	8.25E+01	1.05E-03	5.91E-04	1.13E-07
47	1	Surface	PCB, Total	mg/kg	9.60E-01	1.23E-05	2.41E-05	2.24E-06
47	1	Surface	Plutonium-239/240	pCi/g	4.11E+00	5.25E-05		5.65E-09
47	1	Surface	Pyrene	mg/kg	1.11E+02	1.41E-03	2.57E-03	1.00E-04
47	1	Surface	Thorium-230	pCi/g	4.11E+01	5.25E-04		5.65E-08
47	1	Surface	Total PAH	mg/kg	5.41E+01	6.91E-04	1.26E-03	5.52E-06
47	1	Surface	Uranium	mg/kg	3.23E+01	4.13E-04	2.89E-04	4.44E-08
47	1	Surface	Uranium-234	pCi/g	6.85E+00	8.76E-05		9.41E-09
47	1	Surface	Uranium-235	pCi/g	5.00E-01	6.39E-06		6.87E-10
47	1	Surface	Uranium-238	pCi/g	7.93E+00	1.01E-04		1.09E-08
74	1	Surface	PCB, Total	mg/kg	2.97E+00	3.80E-05	7.45E-05	6.94E-06
74	1	Surface	Total PAH	mg/kg	3.16E+00	4.04E-05	7.36E-05	3.23E-07
74	1	Surface	Uranium-234	pCi/g	7.55E+00	9.65E-05		1.04E-08
74	1	Surface	Uranium-238	pCi/g	3.85E+01	4.92E-04		5.29E-08
75	1	Surface	Cadmium	mg/kg	1.10E+00	1.41E-05	1.97E-07	1.51E-09
75	1	Surface	Chromium	mg/kg	7.17E+01	9.17E-04	6.42E-04	9.86E-08
75	1	Surface	Copper	mg/kg	3.15E+02	4.03E-03	2.82E-03	4.33E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
75	1	Surface	Nickel	mg/kg	8.87E+01	1.13E-03	6.35E-04	1.22E-07
75	1	Surface	PCB, Total	mg/kg	2.30E-01	2.94E-06	5.76E-06	5.37E-07
75	1	Surface	Total PAH	mg/kg	2.21E-01	2.83E-06	5.15E-06	2.26E-08
76	1	Surface	Barium	mg/kg	2.69E+02	3.44E-03	2.41E-03	3.70E-07
76	1	Surface	PCB, Total	mg/kg	2.60E-01	3.32E-06	6.52E-06	6.07E-07
76	1	Surface	Total PAH	mg/kg	1.76E+00	2.25E-05	4.09E-05	1.79E-07
76	1	Surface	Uranium-238	pCi/g	1.45E+00	1.85E-05		1.99E-09
78	1	Surface	Cadmium	mg/kg	2.36E+00	3.02E-05	4.22E-07	3.24E-09
78	1	Surface	Chromium	mg/kg	3.75E+01	4.79E-04	3.36E-04	5.15E-08
78	1	Surface	Cobalt-60	pCi/g	5.91E-03	7.56E-08		8.12E-12
78	1	Surface	Naphthalene	mg/kg	1.60E+01	2.05E-04	7.16E-04	7.38E-04
78	1	Surface	Nickel	mg/kg	2.15E+01	2.75E-04	1.54E-04	2.95E-08
78	1	Surface	PCB, Total	mg/kg	1.20E+01	1.53E-04	3.01E-04	2.80E-05
78	1	Surface	Total PAH	mg/kg	3.91E+01	5.00E-04	9.10E-04	3.99E-06
78	1	Surface	Uranium-235	pCi/g	2.64E-01	3.38E-06		3.63E-10
78	1	Surface	Uranium-238	pCi/g	5.29E+00	6.76E-05		7.27E-09
80	1	Surface	Americium-241	pCi/g	6.40E+00	8.18E-05		8.80E-09
80	1	Surface	Antimony	mg/kg	9.10E-01	1.16E-05	8.14E-06	1.25E-09
80	1	Surface	Beryllium	mg/kg	7.80E-01	9.97E-06	9.77E-07	1.07E-09
80	1	Surface	Chromium	mg/kg	1.65E+02	2.11E-03	1.48E-03	2.27E-07
80	1	Surface	Mercury	mg/kg	4.50E-01	5.75E-06	4.03E-06	1.86E-05
80	1	Surface	Neptunium-237	pCi/g	5.05E-01	6.46E-06		6.94E-10
80	1	Surface	PCB, Total	mg/kg	1.46E+01	1.87E-04	3.66E-04	3.41E-05
80	1	Surface	Thorium-230	pCi/g	4.40E+00	5.63E-05		6.05E-09
80	1	Surface	Total PAH	mg/kg	1.42E-01	1.81E-06	3.30E-06	1.44E-08
80	1	Surface	Uranium	mg/kg	5.72E+03	7.32E-02	5.12E-02	7.87E-06
80	1	Surface	Uranium-234	pCi/g	2.29E+02	2.93E-03		3.15E-07
80	1	Surface	Uranium-235	pCi/g	3.00E+01	3.84E-04		4.12E-08
80	1	Surface	Uranium-238	pCi/g	1.92E+03	2.46E-02		2.64E-06
81	1	Surface	Aluminum	mg/kg	9.57E+03	1.22E-01	8.57E-02	1.32E-05
81	1	Surface	Arsenic	mg/kg	1.03E+01	1.31E-04	5.50E-05	1.41E-08
81	1	Surface	Beryllium	mg/kg	7.57E-01	9.68E-06	9.48E-07	1.04E-09
81	1	Surface	Chromium	mg/kg	8.62E+01	1.10E-03	7.71E-04	1.18E-07
81	1	Surface	Mercury	mg/kg	8.33E+00	1.07E-04	7.46E-05	3.43E-04
81	1	Surface	Nickel	mg/kg	7.29E+01	9.32E-04	5.22E-04	1.00E-07
81	1	Surface	PCB, Total	mg/kg	1.60E+02	2.04E-03	4.00E-03	3.73E-04
81	1	Surface	Silver	mg/kg	2.70E+00	3.45E-05	1.93E-05	3.71E-09
81	1	Surface	Total PAH	mg/kg	5.53E-01	7.07E-06	1.29E-05	5.64E-08
81	1	Surface	Uranium	mg/kg	6.50E+03	8.31E-02	5.82E-02	8.93E-06
81	1	Surface	Uranium-238	pCi/g	2.29E+00	2.92E-05		3.14E-09
99	1	Surface	Chromium	mg/kg	5.51E+01	7.04E-04	4.93E-04	7.57E-08
99	1	Surface	Cobalt-60	pCi/g	1.19E-02	1.52E-07		1.64E-11
99	1	Surface	Mercury	mg/kg	9.53E+00	1.22E-04	8.53E-05	3.93E-04
99	1	Surface	Nickel	mg/kg	7.02E+01	8.98E-04	5.03E-04	9.65E-08
99	1	Surface	Silver	mg/kg	1.03E+01	1.32E-04	7.37E-05	1.42E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
99	1	Surface	Uranium-238	pCi/g	9.45E-01	1.21E-05		1.30E-09
138	1	Surface	Antimony	mg/kg	5.39E+00	6.90E-05	4.83E-05	7.41E-09
138	1	Surface	Arsenic	mg/kg	1.06E+01	1.36E-04	5.70E-05	1.46E-08
138	1	Surface	Cadmium	mg/kg	5.42E+00	6.93E-05	9.70E-07	7.45E-09
138	1	Surface	Chromium	mg/kg	5.39E+01	6.88E-04	4.82E-04	7.40E-08
138	1	Surface	Mercury	mg/kg	1.30E+01	1.66E-04	1.16E-04	5.36E-04
138	1	Surface	Nickel	mg/kg	7.04E+01	9.00E-04	5.04E-04	9.67E-08
138	1	Surface	PCB, Total	mg/kg	5.00E-01	6.39E-06	1.25E-05	1.17E-06
138	1	Surface	Silver	mg/kg	1.01E+01	1.29E-04	7.22E-05	1.39E-08
138	1	Surface	Total PAH	mg/kg	9.74E-02	1.25E-06	2.27E-06	9.94E-09
138	2	Surface	Nickel	mg/kg	7.99E+01	1.02E-03	5.72E-04	1.10E-07
138	2	Surface	PCB, Total	mg/kg	9.20E-02	1.18E-06	2.31E-06	2.15E-07
138	2	Surface	Silver	mg/kg	1.04E+01	1.33E-04	7.47E-05	1.43E-08
138	2	Surface	Total PAH	mg/kg	3.84E-02	4.91E-07	8.94E-07	3.92E-09
153	1	Surface	PCB, Total	mg/kg	5.09E-01	6.51E-06	1.28E-05	1.19E-06
153	1	Surface	Total PAH	mg/kg	8.69E-02	1.11E-06	2.02E-06	8.87E-09
154	1	Surface	Arsenic	mg/kg	1.52E+01	1.94E-04	8.15E-05	2.08E-08
154	1	Surface	Chromium	mg/kg	4.28E+01	5.47E-04	3.83E-04	5.88E-08
154	1	Surface	Nickel	mg/kg	9.89E+01	1.26E-03	7.08E-04	1.36E-07
154	1	Surface	PCB, Total	mg/kg	3.20E+00	4.09E-05	8.02E-05	7.47E-06
154	1	Surface	Total PAH	mg/kg	1.04E+00	1.33E-05	2.42E-05	1.06E-07
154	1	Surface	Uranium	mg/kg	3.82E+01	4.88E-04	3.42E-04	5.25E-08
154	1	Surface	Uranium-238	pCi/g	3.06E+00	3.91E-05		4.21E-09
154	2	Surface	PCB, Total	mg/kg	4.00E-01	5.11E-06	1.00E-05	9.33E-07
155	1	Surface	Antimony	mg/kg	3.65E+00	4.67E-05	3.27E-05	5.02E-09
155	1	Surface	Chromium	mg/kg	3.47E+01	4.44E-04	3.11E-04	4.77E-08
155	1	Surface	Neptunium-237	pCi/g	1.03E-01	1.32E-06		1.42E-10
155	1	Surface	Nickel	mg/kg	7.65E+01	9.78E-04	5.48E-04	1.05E-07
155	1	Surface	PCB, Total	mg/kg	9.20E+00	1.18E-04	2.30E-04	2.15E-05
155	1	Surface	Silver	mg/kg	1.11E+01	1.42E-04	7.93E-05	1.52E-08
156	1	Surface	Chromium	mg/kg	4.90E+01	6.27E-04	4.39E-04	6.74E-08
156	1	Surface	Manganese	mg/kg	2.83E+03	3.62E-02	2.03E-02	3.89E-06
156	1	Surface	Mercury	mg/kg	9.87E+00	1.26E-04	8.83E-05	4.07E-04
156	1	Surface	Nickel	mg/kg	6.16E+01	7.88E-04	4.41E-04	8.47E-08
156	1	Surface	PCB, Total	mg/kg	3.00E-01	3.84E-06	7.52E-06	7.00E-07
156	1	Surface	Total PAH	mg/kg	8.26E-02	1.06E-06	1.92E-06	8.43E-09
156	1	Surface	Uranium	mg/kg	2.32E+01	2.96E-04	2.08E-04	3.19E-08
156	1	Surface	Uranium-238	pCi/g	2.19E+00	2.80E-05		3.01E-09
158	1	Surface	Antimony	mg/kg	5.23E-01	6.69E-06	4.68E-06	7.19E-10
158	1	Surface	Arsenic	mg/kg	1.01E+01	1.29E-04	5.43E-05	1.39E-08
158	1	Surface	Barium	mg/kg	2.19E+02	2.80E-03	1.96E-03	3.01E-07
158	1	Surface	Chromium	mg/kg	6.07E+01	7.77E-04	5.44E-04	8.35E-08
158	1	Surface	Cobalt	mg/kg	1.62E+01	2.07E-04	1.45E-04	2.23E-08
158	1	Surface	Manganese	mg/kg	9.91E+02	1.27E-02	7.09E-03	1.36E-06
158	1	Surface	Mercury	mg/kg	1.05E+01	1.34E-04	9.36E-05	4.31E-04

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
158	1	Surface	Nickel	mg/kg	7.28E+01	9.31E-04	5.21E-04	1.00E-07
158	1	Surface	Thallium	mg/kg	3.12E-01	3.99E-06	2.79E-06	4.29E-10
158	1	Surface	Total PAH	mg/kg	3.69E-01	4.72E-06	8.59E-06	3.76E-08
158	1	Surface	Uranium	mg/kg	2.03E+01	2.60E-04	1.82E-04	2.79E-08
158	1	Surface	Uranium-235	pCi/g	1.63E-01	2.08E-06		2.24E-10
158	1	Surface	Uranium-238	pCi/g	3.79E+00	4.85E-05		5.21E-09
160	1	Surface	Antimony	mg/kg	6.80E-01	8.69E-06	6.09E-06	9.34E-10
160	1	Surface	Total PAH	mg/kg	5.29E-02	6.76E-07	1.23E-06	5.40E-09
163	1	Surface	Chromium	mg/kg	4.94E+01	6.32E-04	4.42E-04	6.79E-08
163	1	Surface	Total PAH	mg/kg	1.63E-01	2.08E-06	3.79E-06	1.66E-08
165	1	Surface	Antimony	mg/kg	2.20E+00	2.81E-05	1.97E-05	3.02E-09
165	1	Surface	Arsenic	mg/kg	6.35E+01	8.12E-04	3.41E-04	8.73E-08
165	1	Surface	Barium	mg/kg	5.84E+02	7.47E-03	5.23E-03	8.03E-07
165	1	Surface	Beryllium	mg/kg	6.82E-01	8.72E-06	8.55E-07	9.37E-10
165	1	Surface	Cesium-137	pCi/g	3.47E+00	4.44E-05		4.77E-09
165	1	Surface	Chromium	mg/kg	3.74E+01	4.78E-04	3.35E-04	5.14E-08
165	1	Surface	Mercury	mg/kg	3.78E-01	4.83E-06	3.38E-06	1.56E-05
165	1	Surface	Naphthalene	mg/kg	1.61E+00	2.06E-05	7.21E-05	7.43E-05
165	1	Surface	Neptunium-237	pCi/g	4.26E-01	5.45E-06		5.85E-10
165	1	Surface	Nickel	mg/kg	3.47E+01	4.44E-04	2.48E-04	4.77E-08
165	1	Surface	PCB, Total	mg/kg	8.27E+00	1.06E-04	2.07E-04	1.93E-05
165	1	Surface	Plutonium-239/240	pCi/g	2.81E+00	3.59E-05		3.85E-09
165	1	Surface	Silver	mg/kg	3.09E+01	3.95E-04	2.21E-04	4.25E-08
165	1	Surface	Thorium-230	pCi/g	6.02E+00	7.69E-05		8.27E-09
165	1	Surface	Total PAH	mg/kg	1.87E+00	2.39E-05	4.35E-05	1.91E-07
165	1	Surface	Uranium	mg/kg	1.08E+02	1.37E-03	9.62E-04	1.48E-07
165	1	Surface	Uranium-234	pCi/g	5.76E+01	7.36E-04		7.91E-08
165	1	Surface	Uranium-235	pCi/g	2.05E+00	2.61E-05		2.81E-09
165	1	Surface	Uranium-238	pCi/g	6.41E+01	8.19E-04		8.81E-08
169	1	Surface	Aluminum	mg/kg	1.42E+04	1.82E-01	1.27E-01	1.95E-05
169	1	Surface	Antimony	mg/kg	1.30E+00	1.66E-05	1.16E-05	1.79E-09
169	1	Surface	Arsenic	mg/kg	2.03E+01	2.60E-04	1.09E-04	2.79E-08
169	1	Surface	Beryllium	mg/kg	8.00E-01	1.02E-05	1.00E-06	1.10E-09
169	1	Surface	Chromium	mg/kg	2.15E+02	2.75E-03	1.92E-03	2.95E-07
169	1	Surface	Copper	mg/kg	3.74E+02	4.79E-03	3.35E-03	5.14E-07
169	1	Surface	Iron	mg/kg	4.16E+04	5.31E-01	3.72E-01	5.71E-05
169	1	Surface	Mercury	mg/kg	7.87E+00	1.01E-04	7.04E-05	3.24E-04
169	1	Surface	Nickel	mg/kg	5.49E+02	7.01E-03	3.93E-03	7.54E-07
169	1	Surface	PCB, Total	mg/kg	1.00E+01	1.28E-04	2.51E-04	2.33E-05
169	1	Surface	Thallium	mg/kg	4.60E-01	5.88E-06	4.12E-06	6.32E-10
169	1	Surface	Total PAH	mg/kg	4.59E+00	5.86E-05	1.07E-04	4.68E-07
169	1	Surface	Uranium	mg/kg	5.03E+01	6.43E-04	4.50E-04	6.91E-08
169	1	Surface	Uranium-234	pCi/g	6.55E+00	8.37E-05		9.00E-09
169	1	Surface	Uranium-235	pCi/g	4.60E-01	5.88E-06		6.32E-10
169	1	Surface	Uranium-238	pCi/g	8.12E+00	1.04E-04		1.12E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
170	1	Surface	Neptunium-237	pCi/g	1.15E-01	1.47E-06		1.58E-10
170	1	Surface	Uranium-238	pCi/g	1.53E+00	1.96E-05		2.10E-09
176	1	Surface	Arsenic	mg/kg	4.86E+01	6.21E-04	2.61E-04	6.67E-08
176	1	Surface	Chromium	mg/kg	4.27E+01	5.46E-04	3.83E-04	5.87E-08
176	1	Surface	Nickel	mg/kg	1.07E+02	1.37E-03	7.67E-04	1.47E-07
176	1	Surface	Uranium	mg/kg	2.21E+01	2.82E-04	1.98E-04	3.04E-08
180	1	Surface	Antimony	mg/kg	5.80E-01	7.42E-06	5.19E-06	7.97E-10
180	1	Surface	Arsenic	mg/kg	7.48E+01	9.56E-04	4.02E-04	1.03E-07
180	1	Surface	Chromium	mg/kg	5.54E+01	7.09E-04	4.96E-04	7.62E-08
180	1	Surface	Mercury	mg/kg	8.28E+00	1.06E-04	7.41E-05	3.41E-04
180	1	Surface	Nickel	mg/kg	8.77E+01	1.12E-03	6.28E-04	1.20E-07
180	2	Surface	Antimony	mg/kg	4.58E-01	5.86E-06	4.10E-06	6.29E-10
180	2	Surface	Arsenic	mg/kg	1.27E+01	1.62E-04	6.79E-05	1.74E-08
180	2	Surface	Chromium	mg/kg	4.46E+01	5.71E-04	3.99E-04	6.13E-08
180	2	Surface	Nickel	mg/kg	8.42E+01	1.08E-03	6.03E-04	1.16E-07
180	2	Surface	Total PAH	mg/kg	9.19E-02	1.17E-06	2.14E-06	9.37E-09
180	3	Surface	Arsenic	mg/kg	1.34E+01	1.71E-04	7.17E-05	1.83E-08
180	3	Surface	Chromium	mg/kg	4.69E+01	6.00E-04	4.20E-04	6.45E-08
180	3	Surface	Nickel	mg/kg	6.77E+01	8.66E-04	4.85E-04	9.30E-08
180	3	Surface	Silver	mg/kg	1.14E+01	1.46E-04	8.16E-05	1.57E-08
180	4	Surface	Arsenic	mg/kg	1.15E+01	1.47E-04	6.19E-05	1.58E-08
180	4	Surface	Barium	mg/kg	2.13E+02	2.72E-03	1.91E-03	2.93E-07
180	4	Surface	Beryllium	mg/kg	1.60E+00	2.05E-05	2.00E-06	2.20E-09
180	4	Surface	Chromium	mg/kg	6.00E+01	7.67E-04	5.37E-04	8.25E-08
180	4	Surface	Iron	mg/kg	1.54E+04	1.97E-01	1.38E-01	2.11E-05
180	4	Surface	Manganese	mg/kg	7.09E+02	9.06E-03	5.08E-03	9.74E-07
180	4	Surface	Nickel	mg/kg	6.46E+01	8.26E-04	4.63E-04	8.88E-08
180	4	Surface	Silver	mg/kg	9.68E+00	1.24E-04	6.93E-05	1.33E-08
180	4	Surface	Total PAH	mg/kg	2.15E-02	2.75E-07	5.00E-07	2.19E-09
180	4	Surface	Vanadium	mg/kg	4.85E+01	6.20E-04	2.26E-04	6.66E-08
181	1	Surface	Chromium	mg/kg	2.29E+01	2.92E-04	2.05E-04	3.14E-08
181	1	Surface	Thallium	mg/kg	3.50E+00	4.47E-05	3.13E-05	4.81E-09
181	1	Surface	Total PAH	mg/kg	3.43E-02	4.39E-07	7.98E-07	3.50E-09
194	1	Surface	Antimony	mg/kg	1.50E+00	1.92E-05	1.34E-05	2.06E-09
194	1	Surface	Chromium	mg/kg	3.87E+01	4.95E-04	3.46E-04	5.32E-08
194	1	Surface	Mercury	mg/kg	6.71E+00	8.58E-05	6.01E-05	2.77E-04
194	1	Surface	Nickel	mg/kg	5.84E+01	7.47E-04	4.18E-04	8.03E-08
194	1	Surface	Silver	mg/kg	1.09E+01	1.40E-04	7.83E-05	1.50E-08
194	2	Surface	Chromium	mg/kg	5.96E+01	7.62E-04	5.33E-04	8.19E-08
194	2	Surface	Silver	mg/kg	1.31E+01	1.68E-04	9.40E-05	1.80E-08
194	2	Surface	Uranium	mg/kg	2.28E+01	2.91E-04	2.04E-04	3.13E-08
194	2	Surface	Uranium-238	pCi/g	1.42E+00	1.82E-05		1.95E-09
194	3	Surface	Antimony	mg/kg	6.90E-01	8.82E-06	6.18E-06	9.48E-10
194	3	Surface	Arsenic	mg/kg	1.46E+01	1.87E-04	7.86E-05	2.01E-08
194	3	Surface	Chromium	mg/kg	3.90E+01	4.98E-04	3.49E-04	5.36E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	3	Surface	Nickel	mg/kg	6.40E+01	8.19E-04	4.59E-04	8.80E-08
194	3	Surface	Total PAH	mg/kg	3.93E-02	5.02E-07	9.14E-07	4.01E-09
194	3	Surface	Uranium-238	pCi/g	1.28E+00	1.64E-05		1.76E-09
194	4	Surface	Chromium	mg/kg	4.84E+01	6.19E-04	4.33E-04	6.65E-08
194	4	Surface	Mercury	mg/kg	8.92E+00	1.14E-04	7.98E-05	3.68E-04
194	4	Surface	Nickel	mg/kg	6.91E+01	8.83E-04	4.94E-04	9.49E-08
194	4	Surface	Silver	mg/kg	1.18E+01	1.51E-04	8.43E-05	1.62E-08
194	4	Surface	Total PAH	mg/kg	7.30E-02	9.33E-07	1.70E-06	7.44E-09
194	4	Surface	Uranium-238	pCi/g	1.73E+00	2.21E-05		2.38E-09
194	5	Surface	Chromium	mg/kg	4.58E+01	5.86E-04	4.10E-04	6.29E-08
194	5	Surface	Mercury	mg/kg	8.69E+00	1.11E-04	7.78E-05	3.58E-04
194	5	Surface	Nickel	mg/kg	7.54E+01	9.65E-04	5.40E-04	1.04E-07
194	5	Surface	Silver	mg/kg	1.25E+01	1.59E-04	8.91E-05	1.71E-08
194	5	Surface	Total PAH	mg/kg	2.37E-02	3.03E-07	5.51E-07	2.42E-09
194	5	Surface	Uranium-238	pCi/g	1.38E+00	1.76E-05		1.90E-09
194	6	Surface	Chromium	mg/kg	3.70E+01	4.73E-04	3.31E-04	5.09E-08
194	6	Surface	Manganese	mg/kg	1.08E+03	1.38E-02	7.73E-03	1.48E-06
194	6	Surface	Nickel	mg/kg	8.06E+01	1.03E-03	5.77E-04	1.11E-07
194	6	Surface	Silver	mg/kg	9.89E+00	1.26E-04	7.08E-05	1.36E-08
194	6	Surface	Uranium-238	pCi/g	1.32E+00	1.69E-05		1.81E-09
194	7	Surface	Chromium	mg/kg	5.32E+01	6.80E-04	4.76E-04	7.31E-08
194	7	Surface	Nickel	mg/kg	7.71E+01	9.86E-04	5.52E-04	1.06E-07
194	7	Surface	Silver	mg/kg	1.25E+01	1.60E-04	8.95E-05	1.72E-08
194	8	Surface	Chromium	mg/kg	5.36E+01	6.85E-04	4.80E-04	7.36E-08
194	8	Surface	Manganese	mg/kg	8.00E+02	1.02E-02	5.73E-03	1.10E-06
194	8	Surface	Total PAH	mg/kg	4.85E-01	6.20E-06	1.13E-05	4.95E-08
194	8	Surface	Uranium-238	pCi/g	1.39E+00	1.78E-05		1.91E-09
194	9	Surface	Arsenic	mg/kg	1.14E+01	1.46E-04	6.13E-05	1.57E-08
194	9	Surface	Chromium	mg/kg	5.17E+01	6.60E-04	4.62E-04	7.10E-08
194	10	Surface	Arsenic	mg/kg	1.22E+01	1.55E-04	6.53E-05	1.67E-08
194	10	Surface	Cesium-137	pCi/g	5.81E-01	7.43E-06		7.98E-10
194	10	Surface	Chromium	mg/kg	3.63E+01	4.64E-04	3.25E-04	4.99E-08
194	10	Surface	Nickel	mg/kg	7.60E+01	9.72E-04	5.44E-04	1.04E-07
194	10	Surface	Total PAH	mg/kg	2.57E-01	3.29E-06	5.98E-06	2.62E-08
194	10	Surface	Uranium-238	pCi/g	1.49E+00	1.91E-05		2.05E-09
194	11	Surface	Chromium	mg/kg	3.27E+01	4.18E-04	2.92E-04	4.49E-08
194	11	Surface	Mercury	mg/kg	8.09E+00	1.03E-04	7.24E-05	3.34E-04
194	11	Surface	Nickel	mg/kg	1.01E+02	1.29E-03	7.21E-04	1.38E-07
194	11	Surface	PCB, Total	mg/kg	8.40E-02	1.07E-06	2.10E-06	1.96E-07
194	11	Surface	Silver	mg/kg	1.33E+01	1.70E-04	9.52E-05	1.83E-08
194	11	Surface	Total PAH	mg/kg	7.95E-02	1.02E-06	1.85E-06	8.11E-09
194	12	Surface	Chromium	mg/kg	6.34E+01	8.10E-04	5.67E-04	8.71E-08
194	12	Surface	Nickel	mg/kg	7.86E+01	1.00E-03	5.63E-04	1.08E-07
194	12	Surface	Silver	mg/kg	1.20E+01	1.53E-04	8.58E-05	1.65E-08
194	12	Surface	Total PAH	mg/kg	8.91E-01	1.14E-05	2.07E-05	9.09E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	13	Surface	Chromium	mg/kg	4.77E+01	6.09E-04	4.26E-04	6.55E-08
194	13	Surface	Nickel	mg/kg	6.03E+01	7.71E-04	4.32E-04	8.29E-08
194	13	Surface	Total PAH	mg/kg	9.13E-02	1.17E-06	2.13E-06	9.32E-09
194	14	Surface	Chromium	mg/kg	5.21E+01	6.66E-04	4.66E-04	7.16E-08
194	14	Surface	Mercury	mg/kg	8.14E+00	1.04E-04	7.29E-05	3.36E-04
194	15	Surface	Chromium	mg/kg	5.33E+01	6.82E-04	4.77E-04	7.33E-08
194	15	Surface	Silver	mg/kg	1.03E+01	1.32E-04	7.38E-05	1.42E-08
194	16	Surface	Antimony	mg/kg	7.40E-01	9.46E-06	6.62E-06	1.02E-09
194	16	Surface	Arsenic	mg/kg	1.15E+01	1.47E-04	6.19E-05	1.58E-08
194	16	Surface	Beryllium	mg/kg	8.70E-01	1.11E-05	1.09E-06	1.20E-09
194	16	Surface	Chromium	mg/kg	5.32E+01	6.81E-04	4.76E-04	7.32E-08
194	16	Surface	Nickel	mg/kg	7.20E+01	9.21E-04	5.16E-04	9.90E-08
194	16	Surface	Thallium	mg/kg	6.30E-01	8.05E-06	5.64E-06	8.66E-10
194	16	Surface	Vanadium	mg/kg	4.11E+01	5.25E-04	1.91E-04	5.65E-08
194	17	Surface	Arsenic	mg/kg	1.16E+01	1.48E-04	6.20E-05	1.59E-08
194	17	Surface	Cadmium	mg/kg	1.10E+00	1.41E-05	1.97E-07	1.51E-09
194	17	Surface	Chromium	mg/kg	4.65E+01	5.94E-04	4.16E-04	6.39E-08
194	17	Surface	Total PAH	mg/kg	1.59E-01	2.03E-06	3.69E-06	1.62E-08
194	18	Surface	Arsenic	mg/kg	1.06E+01	1.35E-04	5.68E-05	1.45E-08
194	18	Surface	Beryllium	mg/kg	7.40E-01	9.46E-06	9.27E-07	1.02E-09
194	18	Surface	Chromium	mg/kg	6.85E+01	8.76E-04	6.13E-04	9.41E-08
194	18	Surface	Nickel	mg/kg	5.78E+01	7.39E-04	4.14E-04	7.94E-08
194	19	Surface	Arsenic	mg/kg	1.07E+01	1.37E-04	5.74E-05	1.47E-08
194	19	Surface	Chromium	mg/kg	4.84E+01	6.18E-04	4.33E-04	6.64E-08
194	19	Surface	Nickel	mg/kg	5.84E+01	7.46E-04	4.18E-04	8.02E-08
194	20	Surface	Arsenic	mg/kg	1.18E+01	1.51E-04	6.36E-05	1.63E-08
194	20	Surface	Barium	mg/kg	3.26E+02	4.17E-03	2.92E-03	4.48E-07
194	20	Surface	Beryllium	mg/kg	1.10E+00	1.41E-05	1.38E-06	1.51E-09
194	20	Surface	Chromium	mg/kg	5.24E+01	6.69E-04	4.69E-04	7.20E-08
194	20	Surface	Cobalt	mg/kg	2.11E+01	2.70E-04	1.89E-04	2.90E-08
194	20	Surface	Manganese	mg/kg	2.29E+03	2.93E-02	1.64E-02	3.15E-06
194	20	Surface	Mercury	mg/kg	7.28E+00	9.31E-05	6.52E-05	3.00E-04
194	20	Surface	Nickel	mg/kg	6.57E+01	8.40E-04	4.70E-04	9.03E-08
194	20	Surface	Silver	mg/kg	1.22E+01	1.56E-04	8.75E-05	1.68E-08
194	20	Surface	Total PAH	mg/kg	3.10E-02	3.96E-07	7.21E-07	3.16E-09
194	20	Surface	Vanadium	mg/kg	3.81E+01	4.87E-04	1.77E-04	5.24E-08
194	21	Surface	Antimony	mg/kg	9.30E-01	1.19E-05	8.32E-06	1.28E-09
194	21	Surface	Chromium	mg/kg	5.51E+01	7.04E-04	4.93E-04	7.57E-08
194	21	Surface	Mercury	mg/kg	6.62E+00	8.46E-05	5.92E-05	2.73E-04
194	21	Surface	Nickel	mg/kg	7.01E+01	8.97E-04	5.02E-04	9.64E-08
194	21	Surface	Thallium	mg/kg	6.40E-01	8.18E-06	5.73E-06	8.80E-10
194	22	Surface	Chromium	mg/kg	4.90E+01	6.26E-04	4.38E-04	6.73E-08
194	22	Surface	Manganese	mg/kg	8.19E+02	1.05E-02	5.86E-03	1.13E-06
194	22	Surface	PCB, Total	mg/kg	1.09E+01	1.40E-04	2.74E-04	2.55E-05
194	23	Surface	Arsenic	mg/kg	1.16E+01	1.48E-04	6.20E-05	1.59E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	23	Surface	Chromium	mg/kg	6.60E+01	8.43E-04	5.90E-04	9.07E-08
194	23	Surface	Iron	mg/kg	1.83E+04	2.34E-01	1.64E-01	2.51E-05
194	23	Surface	Nickel	mg/kg	8.77E+01	1.12E-03	6.28E-04	1.21E-07
194	23	Surface	Silver	mg/kg	1.15E+01	1.47E-04	8.22E-05	1.58E-08
194	24	Surface	Chromium	mg/kg	5.02E+01	6.42E-04	4.49E-04	6.90E-08
194	24	Surface	Nickel	mg/kg	7.08E+01	9.05E-04	5.07E-04	9.73E-08
194	24	Surface	Total PAH	mg/kg	2.28E-02	2.92E-07	5.31E-07	2.33E-09
194	25	Surface	Barium	mg/kg	3.00E+02	3.84E-03	2.68E-03	4.12E-07
194	25	Surface	Chromium	mg/kg	6.13E+01	7.83E-04	5.48E-04	8.42E-08
194	25	Surface	Manganese	mg/kg	9.96E+02	1.27E-02	7.13E-03	1.37E-06
194	25	Surface	Nickel	mg/kg	6.33E+01	8.10E-04	4.53E-04	8.70E-08
194	25	Surface	Total PAH	mg/kg	2.06E-02	2.63E-07	4.79E-07	2.10E-09
194	26	Surface	Beryllium	mg/kg	7.00E-01	8.95E-06	8.77E-07	9.62E-10
194	26	Surface	Chromium	mg/kg	4.18E+01	5.35E-04	3.74E-04	5.75E-08
194	26	Surface	Silver	mg/kg	1.03E+01	1.31E-04	7.35E-05	1.41E-08
194	26	Surface	Thallium	mg/kg	3.90E-01	4.99E-06	3.49E-06	5.36E-10
194	27	Surface	Chromium	mg/kg	5.22E+01	6.67E-04	4.67E-04	7.17E-08
194	27	Surface	Nickel	mg/kg	6.55E+01	8.37E-04	4.69E-04	9.00E-08
194	27	Surface	Silver	mg/kg	1.01E+01	1.29E-04	7.25E-05	1.39E-08
194	28	Surface	Arsenic	mg/kg	1.20E+01	1.54E-04	6.46E-05	1.65E-08
194	28	Surface	Beryllium	mg/kg	7.10E-01	9.08E-06	8.90E-07	9.76E-10
194	28	Surface	Chromium	mg/kg	6.07E+01	7.76E-04	5.43E-04	8.34E-08
194	28	Surface	Manganese	mg/kg	1.14E+03	1.45E-02	8.15E-03	1.56E-06
194	28	Surface	Nickel	mg/kg	6.95E+01	8.88E-04	4.97E-04	9.54E-08
194	28	Surface	Silver	mg/kg	1.08E+01	1.38E-04	7.73E-05	1.48E-08
194	28	Surface	Vanadium	mg/kg	4.06E+01	5.19E-04	1.89E-04	5.58E-08
194	29	Surface	Antimony	mg/kg	7.10E-01	9.08E-06	6.35E-06	9.76E-10
194	29	Surface	Chromium	mg/kg	5.06E+01	6.46E-04	4.53E-04	6.95E-08
194	29	Surface	Nickel	mg/kg	6.51E+01	8.32E-04	4.66E-04	8.95E-08
194	29	Surface	Silver	mg/kg	9.77E+00	1.25E-04	7.00E-05	1.34E-08
194	30	Surface	Chromium	mg/kg	5.66E+01	7.23E-04	5.06E-04	7.77E-08
194	30	Surface	Mercury	mg/kg	8.80E+00	1.13E-04	7.88E-05	3.63E-04
194	30	Surface	Nickel	mg/kg	6.99E+01	8.93E-04	5.00E-04	9.60E-08
194	30	Surface	Silver	mg/kg	9.76E+00	1.25E-04	6.99E-05	1.34E-08
194	31	Surface	Cesium-137	pCi/g	5.70E-01	7.29E-06		7.83E-10
194	31	Surface	Uranium-238	pCi/g	1.72E+00	2.20E-05		2.36E-09
195	1	Surface	Chromium	mg/kg	6.33E+01	8.09E-04	5.66E-04	8.69E-08
195	1	Surface	Nickel	mg/kg	7.02E+01	8.98E-04	5.03E-04	9.65E-08
195	1	Surface	Silver	mg/kg	9.37E+00	1.20E-04	6.71E-05	1.29E-08
195	2	Surface	Chromium	mg/kg	4.52E+01	5.78E-04	4.05E-04	6.21E-08
195	2	Surface	Silver	mg/kg	9.48E+00	1.21E-04	6.79E-05	1.30E-08
195	2	Surface	Total PAH	mg/kg	2.68E-02	3.43E-07	6.24E-07	2.73E-09
195	3	Surface	Chromium	mg/kg	5.03E+01	6.43E-04	4.50E-04	6.91E-08
195	3	Surface	Nickel	mg/kg	5.22E+01	6.67E-04	3.73E-04	7.17E-08
195	3	Surface	Total PAH	mg/kg	4.06E-02	5.19E-07	9.45E-07	4.14E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
195	4	Surface	Chromium	mg/kg	5.29E+01	6.76E-04	4.73E-04	7.27E-08
195	4	Surface	Nickel	mg/kg	6.23E+01	7.96E-04	4.46E-04	8.56E-08
195	5	Surface	Chromium	mg/kg	5.74E+01	7.34E-04	5.14E-04	7.89E-08
195	5	Surface	Nickel	mg/kg	8.11E+01	1.04E-03	5.81E-04	1.11E-07
195	5	Surface	Total PAH	mg/kg	2.40E-02	3.07E-07	5.58E-07	2.45E-09
195	6	Surface	Chromium	mg/kg	4.45E+01	5.69E-04	3.99E-04	6.12E-08
195	6	Surface	Nickel	mg/kg	8.71E+01	1.11E-03	6.24E-04	1.20E-07
195	6	Surface	Total PAH	mg/kg	2.48E-01	3.17E-06	5.76E-06	2.53E-08
195	7	Surface	Chromium	mg/kg	4.93E+01	6.30E-04	4.41E-04	6.77E-08
195	7	Surface	Silver	mg/kg	8.06E+00	1.03E-04	5.77E-05	1.11E-08
195	8	Surface	Arsenic	mg/kg	1.16E+01	1.48E-04	6.21E-05	1.59E-08
195	8	Surface	Beryllium	mg/kg	7.40E-01	9.46E-06	9.27E-07	1.02E-09
195	8	Surface	Chromium	mg/kg	6.79E+01	8.69E-04	6.08E-04	9.34E-08
195	8	Surface	Cobalt	mg/kg	1.82E+01	2.33E-04	1.63E-04	2.50E-08
195	8	Surface	Nickel	mg/kg	7.01E+01	8.96E-04	5.02E-04	9.63E-08
195	8	Surface	Total PAH	mg/kg	2.16E-01	2.76E-06	5.02E-06	2.20E-08
195	8	Surface	Vanadium	mg/kg	4.04E+01	5.17E-04	1.88E-04	5.55E-08
195	9	Surface	Chromium	mg/kg	6.08E+01	7.77E-04	5.44E-04	8.36E-08
195	9	Surface	Nickel	mg/kg	7.93E+01	1.01E-03	5.68E-04	1.09E-07
195	10	Surface	Chromium	mg/kg	4.51E+01	5.76E-04	4.03E-04	6.19E-08
195	10	Surface	Nickel	mg/kg	7.40E+01	9.46E-04	5.30E-04	1.02E-07
195	10	Surface	Silver	mg/kg	1.31E+01	1.68E-04	9.39E-05	1.80E-08
195	11	Surface	Aluminum	mg/kg	2.81E+04	3.59E-01	2.51E-01	3.86E-05
195	11	Surface	Arsenic	mg/kg	1.35E+01	1.72E-04	7.23E-05	1.85E-08
195	11	Surface	Barium	mg/kg	4.53E+02	5.79E-03	4.05E-03	6.23E-07
195	11	Surface	Chromium	mg/kg	5.05E+01	6.46E-04	4.52E-04	6.94E-08
195	11	Surface	Cobalt	mg/kg	2.77E+01	3.54E-04	2.48E-04	3.81E-08
195	11	Surface	Iron	mg/kg	1.97E+04	2.52E-01	1.76E-01	2.71E-05
195	11	Surface	Nickel	mg/kg	6.77E+01	8.65E-04	4.85E-04	9.30E-08
195	11	Surface	Thallium	mg/kg	6.60E-01	8.44E-06	5.91E-06	9.07E-10
195	11	Surface	Vanadium	mg/kg	7.97E+01	1.02E-03	3.71E-04	1.10E-07
195	12	Surface	Beryllium	mg/kg	7.50E-01	9.59E-06	9.40E-07	1.03E-09
195	12	Surface	Chromium	mg/kg	7.04E+01	9.00E-04	6.30E-04	9.67E-08
195	12	Surface	Nickel	mg/kg	6.78E+01	8.66E-04	4.85E-04	9.31E-08
195	13	Surface	Chromium	mg/kg	6.55E+01	8.38E-04	5.86E-04	9.00E-08
195	13	Surface	Nickel	mg/kg	6.91E+01	8.83E-04	4.95E-04	9.49E-08
195	14	Surface	Chromium	mg/kg	5.94E+01	7.60E-04	5.32E-04	8.17E-08
195	14	Surface	Nickel	mg/kg	7.04E+01	9.00E-04	5.04E-04	9.67E-08
195	15	Surface	Chromium	mg/kg	4.82E+01	6.16E-04	4.31E-04	6.62E-08
195	16	Surface	Chromium	mg/kg	4.45E+01	5.68E-04	3.98E-04	6.11E-08
195	16	Surface	Nickel	mg/kg	8.16E+01	1.04E-03	5.84E-04	1.12E-07
195	17	Surface	Chromium	mg/kg	8.22E+01	1.05E-03	7.35E-04	1.13E-07
195	17	Surface	Mercury	mg/kg	4.17E-01	5.33E-06	3.73E-06	1.72E-05
195	17	Surface	Nickel	mg/kg	5.93E+01	7.59E-04	4.25E-04	8.15E-08
195	17	Surface	PCB, Total	mg/kg	7.40E-01	9.46E-06	1.85E-05	1.73E-06

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
195	17	Surface	Silver	mg/kg	1.01E+01	1.30E-04	7.26E-05	1.39E-08
195	17	Surface	Thallium	mg/kg	5.40E-01	6.90E-06	4.83E-06	7.42E-10
195	17	Surface	Total PAH	mg/kg	3.16E-01	4.04E-06	7.35E-06	3.22E-08
195	17	Surface	Uranium-235	pCi/g	1.32E-01	1.69E-06		1.81E-10
195	17	Surface	Uranium-238	pCi/g	2.48E+00	3.17E-05		3.41E-09
196	1	Surface	Antimony	mg/kg	5.90E-01	7.54E-06	5.28E-06	8.11E-10
196	1	Surface	Chromium	mg/kg	1.96E+01	2.51E-04	1.75E-04	2.69E-08
196	1	Surface	Neptunium-237	pCi/g	3.11E-01	3.98E-06		4.27E-10
196	1	Surface	Nickel	mg/kg	5.56E+02	7.11E-03	3.98E-03	7.64E-07
196	1	Surface	Uranium	mg/kg	2.33E+01	2.98E-04	2.09E-04	3.20E-08
196	1	Surface	Uranium-238	pCi/g	1.54E+00	1.97E-05		2.12E-09
196	2	Surface	Barium	mg/kg	2.02E+02	2.58E-03	1.81E-03	2.78E-07
196	2	Surface	Cadmium	mg/kg	2.53E+00	3.23E-05	4.53E-07	3.48E-09
196	2	Surface	Chromium	mg/kg	2.07E+01	2.65E-04	1.85E-04	2.84E-08
196	2	Surface	Nickel	mg/kg	7.36E+01	9.41E-04	5.27E-04	1.01E-07
196	2	Surface	PCB, Total	mg/kg	1.51E+00	1.93E-05	3.78E-05	3.52E-06
196	2	Surface	Total PAH	mg/kg	6.80E-01	8.69E-06	1.58E-05	6.94E-08
196	2	Surface	Uranium-238	pCi/g	2.21E+00	2.83E-05		3.04E-09
200	1	Surface	Antimony	mg/kg	5.60E-01	7.16E-06	5.01E-06	7.70E-10
200	1	Surface	Cesium-137	pCi/g	5.74E-01	7.34E-06		7.89E-10
200	1	Surface	Chromium	mg/kg	5.75E+01	7.36E-04	5.15E-04	7.91E-08
200	1	Surface	Mercury	mg/kg	6.71E+00	8.58E-05	6.01E-05	2.77E-04
200	1	Surface	Nickel	mg/kg	1.28E+02	1.64E-03	9.16E-04	1.76E-07
200	1	Surface	PCB, Total	mg/kg	2.60E+00	3.32E-05	6.52E-05	6.07E-06
200	1	Surface	Total PAH	mg/kg	2.84E-02	3.63E-07	6.61E-07	2.90E-09
200	1	Surface	Uranium	mg/kg	2.73E+01	3.49E-04	2.44E-04	3.75E-08
200	1	Surface	Uranium-235	pCi/g	1.43E-01	1.83E-06		1.97E-10
200	1	Surface	Uranium-238	pCi/g	3.58E+00	4.57E-05		4.92E-09
204	1	Surface	Aluminum	mg/kg	1.48E+04	1.89E-01	1.32E-01	2.03E-05
204	1	Surface	Beryllium	mg/kg	1.36E+00	1.74E-05	1.70E-06	1.87E-09
204	1	Surface	Cadmium	mg/kg	2.73E+00	3.49E-05	4.89E-07	3.75E-09
204	1	Surface	Chromium	mg/kg	7.40E+01	9.46E-04	6.62E-04	1.02E-07
204	1	Surface	Iron	mg/kg	4.19E+04	5.36E-01	3.75E-01	5.76E-05
204	1	Surface	PCB, Total	mg/kg	2.53E+00	3.23E-05	6.34E-05	5.90E-06
204	1	Surface	Uranium-235	pCi/g	1.80E-01	2.30E-06		2.47E-10
204	1	Surface	Uranium-238	pCi/g	5.20E+00	6.65E-05		7.15E-09
204	1	Surface	Vanadium	mg/kg	7.55E+01	9.65E-04	3.51E-04	1.04E-07
204	2	Surface	Aluminum	mg/kg	1.37E+04	1.75E-01	1.23E-01	1.88E-05
204	2	Surface	Chromium	mg/kg	1.80E+01	2.30E-04	1.61E-04	2.47E-08
204	2	Surface	PCB, Total	mg/kg	1.70E-01	2.17E-06	4.26E-06	3.97E-07
204	3	Surface	Chromium	mg/kg	2.06E+01	2.63E-04	1.84E-04	2.83E-08
204	3	Surface	Uranium-238	pCi/g	2.50E+00	3.20E-05		3.44E-09
204	4	Surface	Antimony	mg/kg	1.10E+00	1.41E-05	9.84E-06	1.51E-09
204	4	Surface	Chromium	mg/kg	2.89E+01	3.69E-04	2.59E-04	3.97E-08
204	4	Surface	Uranium-235	pCi/g	1.88E-01	2.40E-06		2.58E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
204	4	Surface	Uranium-238	pCi/g	9.72E+00	1.24E-04		1.34E-08
204	18	Surface	Cesium-137	pCi/g	6.30E-01	8.05E-06		8.66E-10
204	18	Surface	Uranium	mg/kg	1.60E+01	2.05E-04	1.43E-04	2.20E-08
204	18	Surface	Uranium-235	pCi/g	1.25E-01	1.60E-06		1.72E-10
204	18	Surface	Uranium-238	pCi/g	5.37E+00	6.87E-05		7.38E-09
204	23	Surface	Americium-241	pCi/g	3.71E+00	4.74E-05		5.10E-09
204	23	Surface	Beryllium	mg/kg	1.33E+00	1.70E-05	1.67E-06	1.83E-09
204	23	Surface	Cesium-137	pCi/g	1.17E+00	1.50E-05		1.61E-09
204	23	Surface	Chromium	mg/kg	1.75E+02	2.24E-03	1.57E-03	2.40E-07
204	23	Surface	Cobalt-60	pCi/g	1.23E-02	1.57E-07		1.68E-11
204	23	Surface	PCB, Total	mg/kg	7.90E+01	1.01E-03	1.98E-03	1.84E-04
204	23	Surface	Uranium	mg/kg	1.31E+04	1.67E-01	1.17E-01	1.80E-05
204	23	Surface	Uranium-234	pCi/g	4.45E+02	5.69E-03		6.12E-07
204	23	Surface	Uranium-235	pCi/g	5.70E+01	7.29E-04		7.83E-08
204	23	Surface	Uranium-238	pCi/g	4.39E+03	5.61E-02		6.03E-06
211	1	Surface	Chromium	mg/kg	4.48E+01	5.72E-04	4.01E-04	6.15E-08
211	1	Surface	Neptunium-237	pCi/g	1.46E-01	1.87E-06		2.01E-10
211	1	Surface	PCB, Total	mg/kg	3.60E-01	4.60E-06	9.02E-06	8.40E-07
211	1	Surface	Total PAH	mg/kg	1.04E-01	1.33E-06	2.42E-06	1.06E-08
211	1	Surface	Uranium	mg/kg	2.19E+01	2.79E-04	1.96E-04	3.00E-08
211	1	Surface	Uranium-235	pCi/g	2.12E-01	2.71E-06		2.91E-10
211	1	Surface	Uranium-238	pCi/g	5.84E+00	7.47E-05		8.03E-09
212	1	Surface	Arsenic	mg/kg	1.44E+01	1.84E-04	7.74E-05	1.98E-08
212	1	Surface	Beryllium	mg/kg	8.10E-01	1.04E-05	1.01E-06	1.11E-09
212	1	Surface	Cesium-137	pCi/g	6.01E-01	7.68E-06		8.26E-10
212	1	Surface	Chromium	mg/kg	3.58E+01	4.58E-04	3.20E-04	4.92E-08
212	1	Surface	Cobalt-60	pCi/g	8.76E-03	1.12E-07		1.20E-11
212	1	Surface	Iron	mg/kg	4.14E+04	5.29E-01	3.71E-01	5.69E-05
212	1	Surface	Neptunium-237	pCi/g	4.00E+00	5.11E-05		5.50E-09
212	1	Surface	Nickel	mg/kg	8.69E+01	1.11E-03	6.22E-04	1.19E-07
212	1	Surface	PCB, Total	mg/kg	1.80E-01	2.30E-06	4.51E-06	4.20E-07
212	1	Surface	Plutonium-239/240	pCi/g	6.71E+00	8.58E-05		9.22E-09
212	1	Surface	Thorium-230	pCi/g	2.60E+02	3.32E-03		3.57E-07
212	1	Surface	Uranium	mg/kg	2.30E+01	2.94E-04	2.06E-04	3.16E-08
212	1	Surface	Uranium-235	pCi/g	2.09E-01	2.67E-06		2.87E-10
212	1	Surface	Uranium-238	pCi/g	3.17E+00	4.05E-05		4.36E-09
213	1	Surface	Antimony	mg/kg	8.50E-01	1.09E-05	7.61E-06	1.17E-09
213	1	Surface	Chromium	mg/kg	4.78E+01	6.11E-04	4.28E-04	6.57E-08
213	1	Surface	Nickel	mg/kg	6.67E+01	8.53E-04	4.78E-04	9.17E-08
213	1	Surface	PCB, Total	mg/kg	7.30E-02	9.33E-07	1.83E-06	1.70E-07
213	1	Surface	Silver	mg/kg	1.32E+01	1.68E-04	9.43E-05	1.81E-08
213	1	Surface	Total PAH	mg/kg	1.72E-01	2.20E-06	4.00E-06	1.75E-08
213	1	Surface	Uranium-238	pCi/g	2.33E+00	2.98E-05		3.20E-09
213	2	Surface	Chromium	mg/kg	4.48E+01	5.73E-04	4.01E-04	6.16E-08
213	2	Surface	Nickel	mg/kg	9.10E+01	1.16E-03	6.51E-04	1.25E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
213	2	Surface	Silver	mg/kg	1.13E+01	1.44E-04	8.06E-05	1.55E-08
214	1	Surface	Antimony	mg/kg	5.70E-01	7.29E-06	5.10E-06	7.83E-10
215	1	Surface	Antimony	mg/kg	6.80E-01	8.69E-06	6.09E-06	9.34E-10
215	1	Surface	Chromium	mg/kg	5.73E+01	7.33E-04	5.13E-04	7.88E-08
215	1	Surface	Iron	mg/kg	3.87E+04	4.95E-01	3.46E-01	5.32E-05
215	1	Surface	Nickel	mg/kg	7.32E+01	9.35E-04	5.24E-04	1.01E-07
215	1	Surface	Total PAH	mg/kg	8.09E-02	1.03E-06	1.88E-06	8.25E-09
216	1	Surface	Chromium	mg/kg	2.38E+01	3.04E-04	2.13E-04	3.27E-08
216	1	Surface	Total PAH	mg/kg	1.49E-01	1.91E-06	3.47E-06	1.52E-08
216	1	Surface	Uranium-238	pCi/g	1.33E+00	1.70E-05		1.83E-09
217	1	Surface	Chromium	mg/kg	8.58E+01	1.10E-03	7.67E-04	1.18E-07
217	1	Surface	Cobalt	mg/kg	1.96E+01	2.50E-04	1.75E-04	2.69E-08
217	1	Surface	Manganese	mg/kg	7.70E+02	9.84E-03	5.51E-03	1.06E-06
217	1	Surface	Nickel	mg/kg	8.54E+01	1.09E-03	6.12E-04	1.17E-07
217	1	Surface	Silver	mg/kg	1.35E+01	1.72E-04	9.63E-05	1.85E-08
217	1	Surface	Uranium-238	pCi/g	1.15E+00	1.48E-05		1.59E-09
217	2	Surface	Antimony	mg/kg	1.70E+00	2.17E-05	1.52E-05	2.34E-09
217	2	Surface	Arsenic	mg/kg	1.12E+01	1.43E-04	5.99E-05	1.53E-08
217	2	Surface	Chromium	mg/kg	1.02E+02	1.30E-03	9.09E-04	1.40E-07
217	2	Surface	Cobalt	mg/kg	1.74E+01	2.22E-04	1.56E-04	2.39E-08
217	2	Surface	Iron	mg/kg	3.09E+04	3.95E-01	2.77E-01	4.25E-05
217	2	Surface	Manganese	mg/kg	8.44E+02	1.08E-02	6.04E-03	1.16E-06
217	2	Surface	Mercury	mg/kg	8.59E+00	1.10E-04	7.69E-05	3.54E-04
217	2	Surface	Nickel	mg/kg	9.74E+01	1.25E-03	6.97E-04	1.34E-07
217	2	Surface	Silver	mg/kg	1.61E+01	2.06E-04	1.15E-04	2.21E-08
217	2	Surface	Total PAH	mg/kg	5.05E-01	6.46E-06	1.18E-05	5.15E-08
219	1	Surface	Neptunium-237	pCi/g	3.31E-01	4.23E-06		4.55E-10
219	1	Surface	Nickel	mg/kg	6.71E+01	8.58E-04	4.81E-04	9.23E-08
219	1	Surface	Total PAH	mg/kg	7.50E-02	9.59E-07	1.75E-06	7.65E-09
219	1	Surface	Uranium-235	pCi/g	1.92E-01	2.45E-06		2.64E-10
219	1	Surface	Uranium-238	pCi/g	4.40E+00	5.63E-05		6.05E-09
221	1	Surface	Barium	mg/kg	2.21E+02	2.83E-03	1.98E-03	3.04E-07
221	1	Surface	Chromium	mg/kg	7.01E+01	8.97E-04	6.28E-04	9.64E-08
221	1	Surface	Iron	mg/kg	1.90E+04	2.43E-01	1.70E-01	2.61E-05
221	1	Surface	Nickel	mg/kg	7.93E+01	1.01E-03	5.67E-04	1.09E-07
221	1	Surface	PCB, Total	mg/kg	5.00E-01	6.39E-06	1.25E-05	1.17E-06
221	1	Surface	Total PAH	mg/kg	1.02E+00	1.31E-05	2.38E-05	1.04E-07
221	1	Surface	Uranium	mg/kg	1.64E+01	2.09E-04	1.46E-04	2.25E-08
221	1	Surface	Uranium-238	pCi/g	1.93E+00	2.47E-05		2.65E-09
222	1	Surface	Chromium	mg/kg	4.73E+01	6.05E-04	4.23E-04	6.50E-08
222	1	Surface	Nickel	mg/kg	9.19E+01	1.17E-03	6.58E-04	1.26E-07
222	1	Surface	PCB, Total	mg/kg	1.40E+00	1.79E-05	3.51E-05	3.27E-06
222	1	Surface	Total PAH	mg/kg	1.77E-01	2.27E-06	4.12E-06	1.81E-08
222	1	Surface	Uranium	mg/kg	2.80E+01	3.58E-04	2.50E-04	3.85E-08
222	1	Surface	Uranium-234	pCi/g	1.04E+01	1.33E-04		1.43E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
222	1	Surface	Uranium-235	pCi/g	7.10E-01	9.08E-06		9.76E-10
222	1	Surface	Uranium-238	pCi/g	1.96E+01	2.51E-04		2.69E-08
224	1	Surface	Chromium	mg/kg	4.49E+01	5.74E-04	4.02E-04	6.17E-08
224	1	Surface	PCB, Total	mg/kg	4.75E+02	6.07E-03	1.19E-02	1.11E-03
224	1	Surface	Total PAH	mg/kg	4.53E+01	5.79E-04	1.05E-03	4.62E-06
224	1	Surface	Uranium	mg/kg	4.15E+01	5.31E-04	3.71E-04	5.70E-08
224	1	Surface	Uranium-235	pCi/g	2.50E-01	3.20E-06		3.44E-10
224	1	Surface	Uranium-238	pCi/g	2.64E+01	3.38E-04		3.63E-08
225	1	Surface	Chromium	mg/kg	2.55E+01	3.26E-04	2.28E-04	3.50E-08
225	1	Surface	Total PAH	mg/kg	7.79E-02	9.95E-07	1.81E-06	7.94E-09
225	1	Surface	Uranium-238	pCi/g	2.04E+00	2.61E-05		2.80E-09
226	1	Surface	Americium-241	pCi/g	1.62E+00	2.08E-05		2.23E-09
226	1	Surface	Antimony	mg/kg	6.60E-01	8.44E-06	5.91E-06	9.07E-10
226	1	Surface	Cesium-137	pCi/g	2.65E+00	3.39E-05		3.64E-09
226	1	Surface	Chromium	mg/kg	4.25E+01	5.44E-04	3.81E-04	5.84E-08
226	1	Surface	Cobalt-60	pCi/g	3.14E-03	4.01E-08		4.32E-12
226	1	Surface	Manganese	mg/kg	6.30E+02	8.05E-03	4.51E-03	8.66E-07
226	1	Surface	Mercury	mg/kg	9.74E+00	1.25E-04	8.72E-05	4.02E-04
226	1	Surface	Neptunium-237	pCi/g	1.60E+02	2.05E-03		2.20E-07
226	1	Surface	Nickel	mg/kg	2.10E+02	2.68E-03	1.50E-03	2.88E-07
226	1	Surface	PCB, Total	mg/kg	1.49E+00	1.91E-05	3.73E-05	3.48E-06
226	1	Surface	Plutonium-238	pCi/g	2.13E+00	2.73E-05		2.93E-09
226	1	Surface	Plutonium-239/240	pCi/g	6.52E+00	8.34E-05		8.96E-09
226	1	Surface	Technetium-99	pCi/g	4.96E+01	6.34E-04		6.82E-08
226	1	Surface	Thorium-230	pCi/g	4.77E+01	6.10E-04		6.56E-08
226	1	Surface	Total PAH	mg/kg	9.19E-02	1.17E-06	2.14E-06	9.37E-09
226	1	Surface	Uranium	mg/kg	4.01E+02	5.13E-03	3.59E-03	5.51E-07
226	1	Surface	Uranium-234	pCi/g	2.29E+01	2.93E-04		3.15E-08
226	1	Surface	Uranium-235	pCi/g	1.10E+00	1.41E-05		1.51E-09
226	1	Surface	Uranium-238	pCi/g	2.40E+01	3.07E-04		3.30E-08
227	1	Surface	Beryllium	mg/kg	5.52E-01	7.06E-06	6.92E-07	7.59E-10
227	1	Surface	Cesium-137	pCi/g	1.90E-01	2.43E-06		2.61E-10
227	1	Surface	Chromium	mg/kg	4.71E+01	6.03E-04	4.22E-04	6.48E-08
227	1	Surface	Cobalt-60	pCi/g	1.53E-02	1.96E-07		2.10E-11
227	1	Surface	Neptunium-237	pCi/g	9.05E-01	1.16E-05		1.24E-09
227	1	Surface	Nickel	mg/kg	2.03E+02	2.60E-03	1.45E-03	2.79E-07
227	1	Surface	PCB, Total	mg/kg	4.14E+00	5.30E-05	1.04E-04	9.67E-06
227	1	Surface	Technetium-99	pCi/g	4.77E+01	6.10E-04		6.56E-08
227	1	Surface	Total PAH	mg/kg	3.38E-01	4.32E-06	7.86E-06	3.45E-08
227	1	Surface	Uranium	mg/kg	1.02E+02	1.30E-03	9.09E-04	1.40E-07
227	1	Surface	Uranium-234	pCi/g	1.54E+01	1.97E-04		2.12E-08
227	1	Surface	Uranium-235	pCi/g	1.49E+00	1.91E-05		2.05E-09
227	1	Surface	Uranium-238	pCi/g	4.63E+01	5.92E-04		6.36E-08
227	2	Surface	Beryllium	mg/kg	5.32E-01	6.80E-06	6.67E-07	7.31E-10
227	2	Surface	Chromium	mg/kg	5.63E+01	7.20E-04	5.04E-04	7.74E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
227	2	Surface	Cobalt	mg/kg	8.99E+00	1.15E-04	8.04E-05	1.23E-08
227	2	Surface	Cobalt-60	pCi/g	1.37E-02	1.75E-07		1.88E-11
227	2	Surface	Mercury	mg/kg	8.41E+00	1.08E-04	7.53E-05	3.47E-04
227	2	Surface	Nickel	mg/kg	1.25E+02	1.60E-03	8.94E-04	1.72E-07
227	2	Surface	PCB, Total	mg/kg	5.82E+00	7.44E-05	1.46E-04	1.36E-05
227	2	Surface	Total PAH	mg/kg	1.16E-01	1.48E-06	2.69E-06	1.18E-08
227	2	Surface	Uranium	mg/kg	1.51E+01	1.92E-04	1.35E-04	2.07E-08
227	2	Surface	Uranium-238	pCi/g	1.57E+00	2.01E-05		2.16E-09
228	1	Surface	Antimony	mg/kg	6.30E-01	8.05E-06	5.64E-06	8.66E-10
228	1	Surface	Cadmium	mg/kg	3.90E+00	4.99E-05	6.98E-07	5.36E-09
228	1	Surface	Chromium	mg/kg	1.89E+02	2.42E-03	1.69E-03	2.60E-07
228	1	Surface	Mercury	mg/kg	9.37E+00	1.20E-04	8.39E-05	3.86E-04
228	1	Surface	Neptunium-237	pCi/g	8.00E-01	1.02E-05		1.10E-09
228	1	Surface	Nickel	mg/kg	7.92E+01	1.01E-03	5.67E-04	1.09E-07
228	1	Surface	Silver	mg/kg	1.16E+01	1.49E-04	8.33E-05	1.60E-08
228	1	Surface	Total PAH	mg/kg	6.69E-02	8.55E-07	1.56E-06	6.82E-09
228	1	Surface	Uranium	mg/kg	1.51E+01	1.93E-04	1.35E-04	2.08E-08
228	1	Surface	Uranium-235	pCi/g	1.78E-01	2.28E-06		2.45E-10
228	1	Surface	Uranium-238	pCi/g	3.77E+00	4.82E-05		5.18E-09
229	1	Surface	Nickel	mg/kg	9.14E+01	1.17E-03	6.54E-04	1.26E-07
229	1	Surface	Total PAH	mg/kg	1.57E-01	2.00E-06	3.65E-06	1.60E-08
229	1	Surface	Uranium	mg/kg	1.56E+02	1.99E-03	1.39E-03	2.14E-07
229	1	Surface	Uranium-238	pCi/g	2.86E+00	3.66E-05		3.93E-09
229	2	Surface	Arsenic	mg/kg	2.12E+01	2.71E-04	1.14E-04	2.91E-08
229	2	Surface	Beryllium	mg/kg	7.90E-01	1.01E-05	9.90E-07	1.09E-09
229	2	Surface	Chromium	mg/kg	2.91E+01	3.73E-04	2.61E-04	4.00E-08
229	2	Surface	Neptunium-237	pCi/g	2.87E-01	3.67E-06		3.94E-10
229	2	Surface	Nickel	mg/kg	9.93E+01	1.27E-03	7.11E-04	1.36E-07
229	2	Surface	Total PAH	mg/kg	1.69E+00	2.17E-05	3.94E-05	1.73E-07
229	2	Surface	Uranium	mg/kg	7.45E+01	9.53E-04	6.67E-04	1.02E-07
229	2	Surface	Uranium-234	pCi/g	1.22E+01	1.56E-04		1.68E-08
229	2	Surface	Uranium-235	pCi/g	8.40E-01	1.07E-05		1.15E-09
229	2	Surface	Uranium-238	pCi/g	2.49E+01	3.18E-04		3.42E-08
483	1	Surface	Nickel	mg/kg	1.17E+02	1.49E-03	8.35E-04	1.60E-07
483	1	Surface	Silver	mg/kg	1.12E+01	1.43E-04	8.01E-05	1.54E-08
483	1	Surface	Total PAH	mg/kg	2.39E-02	3.06E-07	5.56E-07	2.44E-09
486	1	Surface	Cesium-137	pCi/g				
487	1	Surface	Cesium-137	pCi/g				
488	1	Surface	Cesium-137	pCi/g	5.20E-01	6.65E-06		7.15E-10
488	1	Surface	PCB, Total	mg/kg	1.03E+01	1.32E-04	2.58E-04	2.40E-05
488	1	Surface	Total PAH	mg/kg	2.50E-01	3.19E-06	5.81E-06	2.55E-08
488	1	Surface	Uranium	mg/kg	1.48E+01	1.89E-04	1.32E-04	2.03E-08
488	1	Surface	Uranium-235	pCi/g	1.49E-01	1.91E-06		2.05E-10
488	1	Surface	Uranium-238	pCi/g	4.54E+00	5.80E-05		6.24E-09
489	1	Surface	Chromium	mg/kg	4.16E+01	5.32E-04	3.73E-04	5.72E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
489	1	Surface	Nickel	mg/kg	7.88E+01	1.01E-03	5.64E-04	1.08E-07
489	1	Surface	Total PAH	mg/kg	8.22E-02	1.05E-06	1.91E-06	8.38E-09
489	1	Surface	Uranium-238	pCi/g	1.47E+00	1.88E-05		2.02E-09
492	1	Surface	Arsenic	mg/kg	1.47E+01	1.88E-04	7.89E-05	2.02E-08
492	1	Surface	Beryllium	mg/kg	1.04E+01	1.33E-04	1.30E-05	1.43E-08
492	1	Surface	Cadmium	mg/kg	3.14E+00	4.01E-05	5.62E-07	4.32E-09
492	1	Surface	Chromium	mg/kg	1.04E+03	1.33E-02	9.31E-03	1.43E-06
492	1	Surface	Cobalt-60	pCi/g	9.63E-03	1.23E-07		1.32E-11
492	1	Surface	Neptunium-237	pCi/g	2.09E-01	2.67E-06		2.87E-10
492	1	Surface	PCB, Total	mg/kg	4.41E+01	5.64E-04	1.11E-03	1.03E-04
492	1	Surface	Uranium	mg/kg	1.77E+03	2.26E-02	1.58E-02	2.43E-06
492	1	Surface	Uranium-234	pCi/g	5.39E+01	6.89E-04		7.41E-08
492	1	Surface	Uranium-235	pCi/g	5.72E+00	7.31E-05		7.86E-09
492	1	Surface	Uranium-238	pCi/g	3.83E+02	4.90E-03		5.26E-07
492	1	Surface	Vanadium	mg/kg	4.32E+01	5.52E-04	2.01E-04	5.94E-08
493	1	Surface	Aluminum	mg/kg	1.44E+04	1.84E-01	1.29E-01	1.98E-05
493	1	Surface	Barium	mg/kg	4.04E+02	5.17E-03	3.62E-03	5.55E-07
493	1	Surface	Beryllium	mg/kg	9.91E-01	1.27E-05	1.24E-06	1.36E-09
493	1	Surface	Chromium	mg/kg	6.61E+01	8.45E-04	5.92E-04	9.08E-08
493	1	Surface	Cobalt	mg/kg	3.79E+01	4.85E-04	3.39E-04	5.21E-08
493	1	Surface	Cobalt-60	pCi/g	1.36E-02	1.74E-07		1.87E-11
493	1	Surface	Manganese	mg/kg	3.55E+03	4.54E-02	2.54E-02	4.88E-06
493	1	Surface	Mercury	mg/kg	2.60E-01	3.32E-06	2.33E-06	1.07E-05
493	1	Surface	Neptunium-237	pCi/g	1.22E-01	1.56E-06		1.68E-10
493	1	Surface	Nickel	mg/kg	2.13E+02	2.72E-03	1.53E-03	2.93E-07
493	1	Surface	PCB, Total	mg/kg	2.60E-01	3.32E-06	6.52E-06	6.07E-07
493	1	Surface	Total PAH	mg/kg	5.00E-01	6.39E-06	1.16E-05	5.10E-08
493	1	Surface	Uranium-235	pCi/g	1.65E-01	2.11E-06		2.27E-10
493	1	Surface	Uranium-238	pCi/g	5.50E+00	7.03E-05		7.56E-09
493	1	Surface	Vanadium	mg/kg	4.05E+01	5.18E-04	1.88E-04	5.57E-08
517	1	Surface	Beryllium	mg/kg	7.39E-01	9.45E-06	9.26E-07	1.02E-09
517	1	Surface	Chromium	mg/kg	4.91E+01	6.28E-04	4.39E-04	6.75E-08
517	1	Surface	Cobalt-60	pCi/g	6.39E-03	8.17E-08		8.78E-12
517	1	Surface	Neptunium-237	pCi/g	1.07E+00	1.37E-05		1.47E-09
517	1	Surface	Nickel	mg/kg	1.72E+02	2.20E-03	1.23E-03	2.36E-07
517	1	Surface	PCB, Total	mg/kg	5.00E-01	6.39E-06	1.25E-05	1.17E-06
517	1	Surface	Uranium-235	pCi/g	1.60E-01	2.05E-06		2.20E-10
517	1	Surface	Uranium-238	pCi/g	3.89E+00	4.97E-05		5.35E-09
518	1	Surface	Carbazole	mg/kg	1.17E+01	1.50E-04	2.10E-04	7.51E-06
518	1	Surface	Cobalt	mg/kg	6.80E+00	8.70E-05	6.09E-05	9.35E-09
518	1	Surface	Nickel	mg/kg	1.29E+01	1.64E-04	9.21E-05	1.77E-08
518	1	Surface	PCB, Total	mg/kg	6.30E-01	8.05E-06	1.58E-05	1.47E-06
518	1	Surface	Pyrene	mg/kg	3.94E+01	5.04E-04	9.18E-04	3.58E-05
518	1	Surface	Total PAH	mg/kg	4.64E+00	5.93E-05	1.08E-04	4.73E-07
518	1	Surface	Uranium	mg/kg	2.17E+02	2.77E-03	1.94E-03	2.98E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
518	1	Surface	Uranium-235	pCi/g	6.74E-02	8.62E-07		9.26E-11
518	1	Surface	Uranium-238	pCi/g	1.51E+00	1.94E-05		2.08E-09
520	1	Surface	Cesium-137	pCi/g	9.62E-01	1.23E-05		1.32E-09
520	1	Surface	Chromium	mg/kg	3.17E+01	4.06E-04	2.84E-04	4.36E-08
520	1	Surface	Iron	mg/kg	1.56E+04	1.99E-01	1.40E-01	2.14E-05
520	1	Surface	Mercury	mg/kg	1.07E+01	1.37E-04	9.56E-05	4.40E-04
520	1	Surface	Neptunium-237	pCi/g	6.56E-01	8.39E-06		9.01E-10
520	1	Surface	Nickel	mg/kg	2.60E+02	3.33E-03	1.86E-03	3.58E-07
520	1	Surface	Silver	mg/kg	1.30E+01	1.66E-04	9.29E-05	1.78E-08
520	1	Surface	Thorium-230	pCi/g	1.13E+01	1.45E-04		1.56E-08
520	1	Surface	Total PAH	mg/kg	3.18E-02	4.07E-07	7.41E-07	3.25E-09
520	1	Surface	Uranium	mg/kg	2.29E+01	2.93E-04	2.05E-04	3.15E-08
520	1	Surface	Uranium-235	pCi/g	1.26E-01	1.61E-06		1.73E-10
520	1	Surface	Uranium-238	pCi/g	3.93E+00	5.02E-05		5.40E-09
520	2	Surface	Beryllium	mg/kg	5.79E-01	7.40E-06	7.25E-07	7.96E-10
520	2	Surface	Chromium	mg/kg	6.67E+01	8.52E-04	5.97E-04	9.16E-08
520	2	Surface	Manganese	mg/kg	5.89E+02	7.54E-03	4.22E-03	8.10E-07
520	2	Surface	Mercury	mg/kg	1.19E+01	1.52E-04	1.06E-04	4.90E-04
520	2	Surface	Neptunium-237	pCi/g	7.48E-02	9.56E-07		1.03E-10
520	2	Surface	Nickel	mg/kg	3.11E+02	3.97E-03	2.22E-03	4.27E-07
520	2	Surface	Total PAH	mg/kg	3.17E-01	4.05E-06	7.38E-06	3.23E-08
520	2	Surface	Uranium	mg/kg	3.96E+01	5.06E-04	3.54E-04	5.44E-08
520	2	Surface	Uranium-238	pCi/g	1.78E+00	2.27E-05		2.44E-09
520	3	Surface	Chromium	mg/kg	3.97E+01	5.07E-04	3.55E-04	5.45E-08
520	3	Surface	Copper	mg/kg	1.19E+02	1.52E-03	1.07E-03	1.64E-07
520	3	Surface	Nickel	mg/kg	2.65E+02	3.39E-03	1.90E-03	3.64E-07
520	3	Surface	Silver	mg/kg	1.27E+01	1.62E-04	9.07E-05	1.74E-08
520	3	Surface	Total PAH	mg/kg	1.18E-01	1.51E-06	2.75E-06	1.20E-08
520	3	Surface	Uranium	mg/kg	1.92E+01	2.46E-04	1.72E-04	2.64E-08
520	3	Surface	Uranium-238	pCi/g	1.57E+00	2.01E-05		2.16E-09
520	4	Surface	Chromium	mg/kg	3.82E+01	4.89E-04	3.42E-04	5.25E-08
520	4	Surface	Copper	mg/kg	1.11E+02	1.41E-03	9.90E-04	1.52E-07
520	4	Surface	Mercury	mg/kg	9.69E+00	1.24E-04	8.67E-05	3.99E-04
520	4	Surface	Neptunium-237	pCi/g	7.40E-01	9.46E-06		1.02E-09
520	4	Surface	Nickel	mg/kg	2.82E+02	3.60E-03	2.02E-03	3.87E-07
520	4	Surface	Silver	mg/kg	1.04E+01	1.33E-04	7.47E-05	1.43E-08
520	4	Surface	Total PAH	mg/kg	5.52E-01	7.06E-06	1.29E-05	5.64E-08
520	4	Surface	Uranium	mg/kg	2.40E+01	3.07E-04	2.15E-04	3.30E-08
520	4	Surface	Uranium-235	pCi/g	2.42E-01	3.09E-06		3.33E-10
520	4	Surface	Uranium-238	pCi/g	6.26E+00	8.00E-05		8.60E-09
520	5	Surface	Antimony	mg/kg	9.60E-01	1.23E-05	8.59E-06	1.32E-09
520	5	Surface	Chromium	mg/kg	3.68E+01	4.71E-04	3.30E-04	5.06E-08
520	5	Surface	Neptunium-237	pCi/g	1.55E-01	1.98E-06		2.13E-10
520	5	Surface	Nickel	mg/kg	1.47E+02	1.88E-03	1.05E-03	2.02E-07
520	5	Surface	Total PAH	mg/kg	3.87E-01	4.95E-06	9.01E-06	3.95E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
520	5	Surface	Uranium-238	pCi/g	1.45E+00	1.85E-05		1.99E-09
531	1	Surface	Antimony	mg/kg	1.00E+00	1.28E-05	8.95E-06	1.37E-09
531	1	Surface	Arsenic	mg/kg	4.68E+01	5.99E-04	2.51E-04	6.43E-08
531	1	Surface	Cadmium	mg/kg	3.10E+00	3.96E-05	5.55E-07	4.26E-09
531	1	Surface	Chromium	mg/kg	5.05E+01	6.45E-04	4.52E-04	6.93E-08
531	1	Surface	Iron	mg/kg	5.68E+04	7.27E-01	5.09E-01	7.81E-05
531	1	Surface	Nickel	mg/kg	1.62E+02	2.07E-03	1.16E-03	2.23E-07
531	1	Surface	Total PAH	mg/kg	5.34E-02	6.82E-07	1.24E-06	5.44E-09
531	1	Surface	Uranium	mg/kg	2.41E+01	3.08E-04	2.15E-04	3.31E-08
531	1	Surface	Uranium-235	pCi/g	1.38E-01	1.76E-06		1.90E-10
531	1	Surface	Uranium-238	pCi/g	3.48E+00	4.45E-05		4.78E-09
531	1	Surface	Zinc	mg/kg	2.45E+03	3.13E-02	2.19E-02	3.37E-06
541	1	Surface	Aluminum	mg/kg	1.43E+04	1.83E-01	1.28E-01	1.96E-05
541	1	Surface	Americium-241	pCi/g	7.53E+00	9.63E-05		1.04E-08
541	1	Surface	Barium	mg/kg	1.28E+02	1.64E-03	1.15E-03	1.76E-07
541	1	Surface	Beryllium	mg/kg	6.98E-01	8.92E-06	8.75E-07	9.59E-10
541	1	Surface	Cadmium	mg/kg	1.68E+00	2.15E-05	3.01E-07	2.31E-09
541	1	Surface	Cesium-137	pCi/g	9.58E-01	1.22E-05		1.32E-09
541	1	Surface	Chromium	mg/kg	8.24E+02	1.05E-02	7.38E-03	1.13E-06
541	1	Surface	Cobalt-60	pCi/g	1.01E-02	1.29E-07		1.39E-11
541	1	Surface	Iron	mg/kg	1.60E+04	2.04E-01	1.43E-01	2.19E-05
541	1	Surface	Mercury	mg/kg	9.81E-02	1.25E-06	8.78E-07	4.04E-06
541	1	Surface	Naphthalene	mg/kg	6.55E-01	8.37E-06	2.93E-05	3.02E-05
541	1	Surface	Neptunium-237	pCi/g	5.52E-02	7.06E-07		7.59E-11
541	1	Surface	Nickel	mg/kg	1.52E+01	1.95E-04	1.09E-04	2.09E-08
541	1	Surface	PCB, Total	mg/kg	6.06E+01	7.75E-04	1.52E-03	1.41E-04
541	1	Surface	Total PAH	mg/kg	2.33E+00	2.98E-05	5.42E-05	2.38E-07
541	1	Surface	Uranium	mg/kg	6.38E+03	8.16E-02	5.71E-02	8.77E-06
541	1	Surface	Uranium-234	pCi/g	1.43E+02	1.83E-03		1.96E-07
541	1	Surface	Uranium-235	pCi/g	1.76E+01	2.25E-04		2.41E-08
541	1	Surface	Uranium-238	pCi/g	1.00E+03	1.28E-02		1.38E-06
541	1	Surface	Vanadium	mg/kg	3.04E+01	3.89E-04	1.42E-04	4.18E-08
561	1	Surface	Antimony	mg/kg	9.36E-01	1.20E-05	8.38E-06	1.29E-09
561	1	Surface	Arsenic	mg/kg	1.66E+01	2.12E-04	8.89E-05	2.27E-08
561	1	Surface	Barium	mg/kg	1.40E+02	1.79E-03	1.25E-03	1.93E-07
561	1	Surface	Beryllium	mg/kg	6.85E-01	8.76E-06	8.58E-07	9.41E-10
561	1	Surface	Chromium	mg/kg	8.58E+01	1.10E-03	7.68E-04	1.18E-07
561	1	Surface	Cobalt	mg/kg	1.07E+01	1.37E-04	9.57E-05	1.47E-08
561	1	Surface	Cobalt-60	pCi/g	7.06E-02	9.03E-07		9.70E-11
561	1	Surface	Iron	mg/kg	2.05E+04	2.62E-01	1.83E-01	2.81E-05
561	1	Surface	Manganese	mg/kg	1.61E+03	2.06E-02	1.15E-02	2.21E-06
561	1	Surface	Neptunium-237	pCi/g	2.71E-02	3.46E-07		3.72E-11
561	1	Surface	PCB, Total	mg/kg	1.04E+00	1.33E-05	2.61E-05	2.43E-06
561	1	Surface	Thallium	mg/kg	3.33E-01	4.26E-06	2.98E-06	4.58E-10
561	1	Surface	Total PAH	mg/kg	1.65E-01	2.11E-06	3.84E-06	1.68E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
561	1	Surface	Uranium	mg/kg	2.65E+02	3.39E-03	2.37E-03	3.64E-07
561	1	Surface	Uranium-234	pCi/g	7.84E+00	1.00E-04		1.08E-08
561	1	Surface	Uranium-235	pCi/g	1.37E+00	1.75E-05		1.88E-09
561	1	Surface	Uranium-238	pCi/g	1.07E+02	1.36E-03		1.46E-07
561	1	Surface	Vanadium	mg/kg	3.76E+01	4.81E-04	1.75E-04	5.17E-08
561	2	Surface	Antimony	mg/kg	5.33E+00	6.82E-05	4.77E-05	7.33E-09
561	2	Surface	Arsenic	mg/kg	1.30E+01	1.66E-04	6.99E-05	1.79E-08
561	2	Surface	Beryllium	mg/kg	6.34E-01	8.11E-06	7.94E-07	8.71E-10
561	2	Surface	Cadmium	mg/kg	4.13E-01	5.28E-06	7.39E-08	5.68E-10
561	2	Surface	Cesium-137	pCi/g	4.09E-01	5.23E-06		5.62E-10
561	2	Surface	Chromium	mg/kg	2.88E+02	3.68E-03	2.58E-03	3.96E-07
561	2	Surface	Cobalt	mg/kg	1.14E+01	1.46E-04	1.02E-04	1.57E-08
561	2	Surface	Cobalt-60	pCi/g	2.76E-02	3.53E-07		3.79E-11
561	2	Surface	Manganese	mg/kg	1.12E+03	1.43E-02	7.98E-03	1.53E-06
561	2	Surface	Neptunium-237	pCi/g	4.71E-02	6.02E-07		6.47E-11
561	2	Surface	PCB, Total	mg/kg	1.64E+01	2.09E-04	4.10E-04	3.82E-05
561	2	Surface	Thallium	mg/kg	4.09E-01	5.23E-06	3.66E-06	5.62E-10
561	2	Surface	Total PAH	mg/kg	4.43E-01	5.66E-06	1.03E-05	4.52E-08
561	2	Surface	Uranium	mg/kg	1.38E+03	1.77E-02	1.24E-02	1.90E-06
561	2	Surface	Uranium-234	pCi/g	4.06E+01	5.19E-04		5.58E-08
561	2	Surface	Uranium-235	pCi/g	7.09E+00	9.07E-05		9.75E-09
561	2	Surface	Uranium-238	pCi/g	4.00E+02	5.12E-03		5.50E-07
561	2	Surface	Vanadium	mg/kg	3.46E+01	4.42E-04	1.61E-04	4.75E-08
562	1	Surface	Uranium	mg/kg	8.73E+01	1.12E-03	7.81E-04	1.20E-07
562	1	Surface	Uranium-238	pCi/g	2.73E+00	3.49E-05		3.75E-09
562	2	Surface	PCB, Total	mg/kg	1.58E+00	2.02E-05	3.96E-05	3.69E-06
562	2	Surface	Uranium-234	pCi/g	5.34E+01	6.83E-04		7.34E-08
562	2	Surface	Uranium-235	pCi/g	8.96E+00	1.15E-04		1.23E-08
562	2	Surface	Uranium-238	pCi/g	5.81E+02	7.43E-03		7.98E-07
562	3	Surface	Chromium	mg/kg	3.82E+01	4.88E-04	3.42E-04	5.24E-08
562	3	Surface	PCB, Total	mg/kg	2.40E-01	3.07E-06	6.01E-06	5.60E-07
562	3	Surface	Total PAH	mg/kg	2.20E-01	2.81E-06	5.12E-06	2.24E-08
562	3	Surface	Uranium	mg/kg	5.89E+01	7.53E-04	5.27E-04	8.09E-08
562	3	Surface	Uranium-235	pCi/g	1.63E-01	2.08E-06		2.24E-10
562	3	Surface	Uranium-238	pCi/g	1.09E+01	1.39E-04		1.50E-08
562	4	Surface	Chromium	mg/kg	4.67E+01	5.97E-04	4.18E-04	6.41E-08
562	4	Surface	Uranium	mg/kg	2.10E+01	2.68E-04	1.88E-04	2.88E-08
562	4	Surface	Uranium-238	pCi/g	2.24E+00	2.86E-05		3.08E-09
562	5	Surface	Chromium	mg/kg	1.53E+02	1.96E-03	1.37E-03	2.10E-07
562	5	Surface	PCB, Total	mg/kg	9.50E-01	1.21E-05	2.38E-05	2.22E-06
562	5	Surface	Total PAH	mg/kg	7.05E-02	9.01E-07	1.64E-06	7.19E-09
562	5	Surface	Uranium	mg/kg	2.08E+02	2.66E-03	1.86E-03	2.86E-07
562	5	Surface	Uranium-234	pCi/g	8.57E+00	1.10E-04		1.18E-08
562	5	Surface	Uranium-235	pCi/g	5.68E-01	7.26E-06		7.81E-10
562	5	Surface	Uranium-235	pCi/g	9.50E-01	1.21E-05		1.31E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.17. Noncancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
562	5	Surface	Uranium-238	pCi/g	6.24E+01	7.98E-04		8.58E-08
563	1	Surface	Cadmium	mg/kg	8.96E-01	1.15E-05	1.60E-07	1.23E-09
563	1	Surface	Chromium	mg/kg	2.85E+02	3.64E-03	2.55E-03	3.92E-07
563	1	Surface	PCB, Total	mg/kg	7.40E-01	9.46E-06	1.85E-05	1.73E-06
563	1	Surface	Uranium	mg/kg	1.51E+01	1.93E-04	1.35E-04	2.07E-08
563	1	Surface	Uranium-238	pCi/g	2.76E+00	3.53E-05		3.79E-09
563	2	Surface	Cesium-137	pCi/g	6.47E-01	8.27E-06		8.89E-10
563	2	Surface	Uranium-238	pCi/g	1.49E+00	1.91E-05		2.05E-09
564	1	Surface	Arsenic	mg/kg	4.30E+01	5.50E-04	2.31E-04	5.91E-08
564	1	Surface	Beryllium	mg/kg	2.12E+00	2.71E-05	2.66E-06	2.91E-09
564	1	Surface	Cadmium	mg/kg	1.96E+00	2.51E-05	3.51E-07	2.69E-09
564	1	Surface	Cesium-137	pCi/g	6.20E-01	7.93E-06		8.52E-10
564	1	Surface	Chromium	mg/kg	7.49E+01	9.58E-04	6.71E-04	1.03E-07
564	1	Surface	Iron	mg/kg	3.66E+04	4.68E-01	3.28E-01	5.03E-05
564	1	Surface	Mercury	mg/kg	2.30E-01	2.94E-06	2.06E-06	9.48E-06
564	1	Surface	Nickel	mg/kg	2.24E+01	2.86E-04	1.60E-04	3.08E-08
564	1	Surface	PCB, Total	mg/kg	1.93E+00	2.47E-05	4.84E-05	4.50E-06
564	1	Surface	Thallium	mg/kg	2.36E+00	3.02E-05	2.11E-05	3.24E-09
564	1	Surface	Thorium-230	pCi/g	5.01E+00	6.41E-05		6.88E-09
564	1	Surface	Uranium	mg/kg	5.83E+01	7.45E-04	5.22E-04	8.01E-08
564	1	Surface	Uranium-234	pCi/g	6.93E+00	8.86E-05		9.52E-09
564	1	Surface	Uranium-235	pCi/g	3.37E-01	4.31E-06		4.63E-10
564	1	Surface	Uranium-235	pCi/g	3.87E-01	4.95E-06		5.32E-10
564	1	Surface	Uranium-238	pCi/g	8.33E+00	1.07E-04		1.14E-08
564	1	Surface	Vanadium	mg/kg	8.06E+01	1.03E-03	3.75E-04	1.11E-07
567	3	Surface	Chromium	mg/kg	3.79E+01	4.85E-04	3.39E-04	5.21E-08
567	4	Surface	Aluminum	mg/kg	1.25E+04	1.60E-01	1.12E-01	1.72E-05
567	4	Surface	Chromium	mg/kg	1.63E+01	2.08E-04	1.46E-04	2.24E-08
567	4	Surface	Uranium-238	pCi/g	1.05E+00	1.34E-05		1.44E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
1	1	Surface	Beryllium	mg/kg	3.89E+00	4.27E-06	4.18E-07	4.59E-10	
1	1	Surface	Cadmium	mg/kg	1.10E+00	1.21E-06	1.69E-08	1.30E-10	
1	1	Surface	Cesium-137	pCi/g	5.91E-01	2.48E+02		2.67E-02	2.72E+00
1	1	Surface	Chromium	mg/kg	1.28E+01	1.40E-05	9.83E-06	1.51E-09	
1	1	Surface	Neptunium-237	pCi/g	4.02E-01	1.69E+02		1.81E-02	1.85E+00
1	1	Surface	PCB, Total	mg/kg	1.76E-01	1.93E-07	3.78E-07	3.52E-08	
1	1	Surface	Plutonium-239/240	pCi/g	6.14E+00	2.58E+03		2.77E-01	2.83E+01
1	1	Surface	Thorium-230	pCi/g	4.40E+01	1.85E+04		1.99E+00	2.03E+02
1	1	Surface	Uranium-235	pCi/g	1.06E-01	4.45E+01		4.79E-03	4.88E-01
1	1	Surface	Uranium-238	pCi/g	1.97E+00	8.29E+02		8.91E-02	9.09E+00
1	2	Surface	Beryllium	mg/kg	8.23E+00	9.02E-06	8.84E-07	9.69E-10	
1	2	Surface	Cadmium	mg/kg	6.46E+00	7.08E-06	9.91E-08	7.61E-10	
1	2	Surface	Chromium	mg/kg	2.01E+02	2.20E-04	1.54E-04	2.37E-08	
1	2	Surface	Copper	mg/kg	1.81E+02	1.98E-04	1.39E-04	2.13E-08	
1	2	Surface	Mercury	mg/kg	5.94E+00	6.51E-06	4.56E-06	2.10E-05	
1	2	Surface	Nickel	mg/kg	5.75E+01	6.30E-05	3.53E-05	6.77E-09	
1	2	Surface	PCB, Total	mg/kg	3.22E+01	3.53E-05	6.92E-05	6.44E-06	
1	2	Surface	Silver	mg/kg	3.31E+01	3.63E-05	2.03E-05	3.90E-09	
1	2	Surface	Thallium	mg/kg	3.70E-01	4.05E-07	2.84E-07	4.36E-11	
1	2	Surface	Vanadium	mg/kg	3.49E+01	3.82E-05	1.39E-05	4.11E-09	
1	3	Surface	Chromium	mg/kg	1.45E+01	1.59E-05	1.11E-05	1.70E-09	
1	3	Surface	PCB, Total	mg/kg	2.17E-01	2.38E-07	4.66E-07	4.34E-08	
1	3	Surface	Uranium-238	pCi/g	1.73E+00	7.27E+02		7.81E-02	7.96E+00
1	4	Surface	Beryllium	mg/kg	7.25E-01	7.95E-07	7.79E-08	8.54E-11	
1	4	Surface	Chromium	mg/kg	9.30E+01	1.02E-04	7.14E-05	1.10E-08	
1	4	Surface	Cobalt-60	pCi/g	2.20E-02	9.24E+00		9.93E-04	1.01E-01
1	4	Surface	Nickel	mg/kg	4.69E+01	5.14E-05	2.88E-05	5.52E-09	
1	4	Surface	PCB, Total	mg/kg	1.30E-01	1.42E-07	2.79E-07	2.60E-08	
1	4	Surface	Thorium-230	pCi/g	5.03E+00	2.11E+03		2.27E-01	2.32E+01
1	5	Surface	Beryllium	mg/kg	8.30E+00	9.10E-06	8.91E-07	9.78E-10	
1	5	Surface	Cadmium	mg/kg	1.20E+00	1.32E-06	1.84E-08	1.41E-10	
1	5	Surface	Nickel	mg/kg	4.07E+01	4.46E-05	2.50E-05	4.79E-09	
1	5	Surface	PCB, Total	mg/kg	2.70E-01	2.96E-07	5.80E-07	5.40E-08	
1	5	Surface	Total PAH	mg/kg	9.83E-02	1.08E-07	1.96E-07	8.60E-10	
12	1	Surface	Aluminum	mg/kg	8.19E+03	8.98E-03	6.29E-03	9.65E-07	
12	1	Surface	Antimony	mg/kg	5.04E-01	5.52E-07	3.87E-07	5.94E-11	
12	1	Surface	Arsenic	mg/kg	1.34E+01	1.47E-05	6.16E-06	1.58E-09	
12	1	Surface	Barium	mg/kg	1.04E+02	1.14E-04	7.96E-05	1.22E-08	
12	1	Surface	Beryllium	mg/kg	6.72E+00	7.36E-06	7.22E-07	7.92E-10	
12	1	Surface	Cadmium	mg/kg	1.02E+00	1.12E-06	1.56E-08	1.20E-10	
12	1	Surface	Chromium	mg/kg	6.33E+01	6.94E-05	4.86E-05	7.46E-09	
12	1	Surface	Cobalt	mg/kg	9.16E+00	1.00E-05	7.03E-06	1.08E-09	
12	1	Surface	Iron	mg/kg	3.01E+04	3.29E-02	2.31E-02	3.54E-06	
12	1	Surface	Manganese	mg/kg	1.01E+03	1.11E-03	6.22E-04	1.19E-07	
12	1	Surface	Mercury	mg/kg	8.80E+00	9.64E-06	6.75E-06	3.11E-05	
12	1	Surface	Molybdenum	mg/kg	1.74E+01	1.91E-05	1.34E-05	2.05E-09	
12	1	Surface	Nickel	mg/kg	7.74E+01	8.49E-05	4.75E-05	9.12E-09	
12	1	Surface	PCB, Total	mg/kg	3.90E-01	4.27E-07	8.38E-07	7.80E-08	
12	1	Surface	Silver	mg/kg	1.10E+01	1.21E-05	6.76E-06	1.30E-09	
12	1	Surface	Thallium	mg/kg	1.03E+00	1.13E-06	7.90E-07	1.21E-10	
12	1	Surface	Total PAH	mg/kg	1.70E-01	1.86E-07	3.39E-07	1.49E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
12	1	Surface	Uranium	mg/kg	3.76E+02	4.12E-04	2.88E-04	4.43E-08	
12	1	Surface	Uranium-234	pCi/g	1.50E+01	6.31E+03		6.78E-01	6.91E+01
12	1	Surface	Uranium-235	pCi/g	1.53E+00	6.41E+02		6.89E-02	7.02E+00
12	1	Surface	Uranium-238	pCi/g	6.68E+01	2.81E+04		3.02E+00	3.08E+02
12	1	Surface	Vanadium	mg/kg	2.80E+01	3.07E-05	1.12E-05	3.30E-09	
13	1	Surface	PCB, Total	mg/kg	7.00E-01	7.67E-07	1.50E-06	1.40E-07	
13	4	Surface	Uranium-238	pCi/g	1.32E+00	5.54E+02		5.96E-02	6.08E+00
13	5	Surface	Aluminum	mg/kg	1.13E+04	1.23E-02	8.64E-03	1.33E-06	
13	5	Surface	Antimony	mg/kg	8.20E-01	8.99E-07	6.29E-07	9.66E-11	
13	5	Surface	Cadmium	mg/kg	1.20E+00	1.32E-06	1.84E-08	1.41E-10	
13	5	Surface	Chromium	mg/kg	1.51E+01	1.65E-05	1.16E-05	1.78E-09	
13	5	Surface	Nickel	mg/kg	1.17E+02	1.28E-04	7.15E-05	1.37E-08	
13	5	Surface	PCB, Total	mg/kg	1.05E+00	1.15E-06	2.25E-06	2.10E-07	
13	5	Surface	Total PAH	mg/kg	6.65E-02	7.28E-08	1.33E-07	5.81E-10	
13	5	Surface	Uranium	mg/kg	1.19E+02	1.31E-04	9.14E-05	1.40E-08	
13	6	Surface	Uranium-238	pCi/g	1.32E+00	5.53E+02		5.94E-02	6.06E+00
13	9	Surface	Neptunium-237	pCi/g	8.90E-01	3.74E+02		4.02E-02	4.10E+00
13	9	Surface	Uranium	mg/kg	1.82E+01	1.99E-05	1.40E-05	2.14E-09	
13	9	Surface	Uranium-235	pCi/g	3.11E-01	1.31E+02		1.40E-02	1.43E+00
13	9	Surface	Uranium-238	pCi/g	6.08E+00	2.55E+03		2.74E-01	2.80E+01
13	11	Surface	Cobalt-60	pCi/g	1.30E-02	5.46E+00		5.87E-04	5.98E-02
14	1	Surface	Americium-241	pCi/g	1.27E+00	5.32E+02		5.72E-02	5.83E+00
14	1	Surface	Arsenic	mg/kg	1.10E+01	1.20E-05	5.05E-06	1.29E-09	
14	1	Surface	Chromium	mg/kg	6.36E+01	6.97E-05	4.88E-05	7.49E-09	
14	1	Surface	Iron	mg/kg	1.89E+04	2.07E-02	1.45E-02	2.22E-06	
14	1	Surface	Neptunium-237	pCi/g	2.14E-01	8.99E+01		9.66E-03	9.85E-01
14	1	Surface	Nickel	mg/kg	1.40E+02	1.53E-04	8.57E-05	1.65E-08	
14	1	Surface	PCB, Total	mg/kg	5.00E-01	5.48E-07	1.07E-06	1.00E-07	
14	1	Surface	Silver	mg/kg	1.67E+01	1.83E-05	1.02E-05	1.97E-09	
14	1	Surface	Technetium-99	pCi/g	4.06E+02	1.71E+05		1.83E+01	1.87E+03
14	1	Surface	Uranium	mg/kg	7.21E+01	7.91E-05	5.53E-05	8.50E-09	
14	1	Surface	Uranium-238	pCi/g	1.69E+00	7.10E+02		7.63E-02	7.78E+00
14	2	Surface	Antimony	mg/kg	3.70E+00	4.05E-06	2.84E-06	4.36E-10	
14	2	Surface	Arsenic	mg/kg	1.45E+01	1.59E-05	6.69E-06	1.71E-09	
14	2	Surface	Beryllium	mg/kg	7.10E-01	7.78E-07	7.63E-08	8.36E-11	
14	2	Surface	Chromium	mg/kg	6.65E+01	7.29E-05	5.10E-05	7.84E-09	
14	2	Surface	Copper	mg/kg	1.76E+02	1.93E-04	1.35E-04	2.08E-08	
14	2	Surface	Iron	mg/kg	3.72E+04	4.08E-02	2.85E-02	4.38E-06	
14	2	Surface	Manganese	mg/kg	1.44E+03	1.58E-03	8.85E-04	1.70E-07	
14	2	Surface	Mercury	mg/kg	2.67E-01	2.93E-07	2.05E-07	9.44E-07	
14	2	Surface	Neptunium-237	pCi/g	7.70E-01	3.23E+02		3.48E-02	3.54E+00
14	2	Surface	Nickel	mg/kg	6.78E+02	7.43E-04	4.16E-04	7.99E-08	
14	2	Surface	PCB, Total	mg/kg	3.90E-01	4.27E-07	8.38E-07	7.80E-08	
14	2	Surface	Thorium-230	pCi/g	5.98E+00	2.51E+03		2.70E-01	2.75E+01
14	2	Surface	Total PAH	mg/kg	3.38E-01	3.71E-07	6.74E-07	2.96E-09	
14	2	Surface	Uranium	mg/kg	2.93E+02	3.21E-04	2.25E-04	3.45E-08	
14	2	Surface	Uranium-234	pCi/g	3.24E+01	1.36E+04		1.46E+00	1.49E+02
14	2	Surface	Uranium-235	pCi/g	2.00E+00	8.40E+02		9.03E-02	9.21E+00
14	2	Surface	Uranium-238	pCi/g	5.61E+01	2.36E+04		2.53E+00	2.58E+02
14	3	Surface	Arsenic	mg/kg	1.30E+01	1.42E-05	5.97E-06	1.53E-09	
14	3	Surface	Chromium	mg/kg	7.01E+01	7.69E-05	5.38E-05	8.26E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	3	Surface	Copper	mg/kg	1.29E+02	1.42E-04	9.92E-05	1.52E-08	
14	3	Surface	Iron	mg/kg	3.48E+04	3.82E-02	2.67E-02	4.10E-06	
14	3	Surface	Manganese	mg/kg	1.06E+03	1.16E-03	6.49E-04	1.25E-07	
14	3	Surface	Mercury	mg/kg	7.48E+00	8.20E-06	5.74E-06	2.64E-05	
14	3	Surface	Molybdenum	mg/kg	2.21E+01	2.42E-05	1.69E-05	2.60E-09	
14	3	Surface	Nickel	mg/kg	5.76E+02	6.32E-04	3.54E-04	6.79E-08	
14	3	Surface	PCB, Total	mg/kg	8.65E+00	9.48E-06	1.86E-05	1.73E-06	
14	3	Surface	Uranium	mg/kg	2.18E+02	2.39E-04	1.67E-04	2.56E-08	
14	3	Surface	Uranium-238	pCi/g	1.50E+00	6.30E+02		6.77E-02	6.90E+00
14	4	Surface	Antimony	mg/kg	4.30E+00	4.71E-06	3.30E-06	5.06E-10	
14	4	Surface	Arsenic	mg/kg	1.33E+01	1.46E-05	6.11E-06	1.56E-09	
14	4	Surface	Chromium	mg/kg	7.20E+01	7.89E-05	5.53E-05	8.49E-09	
14	4	Surface	Copper	mg/kg	3.54E+02	3.87E-04	2.71E-04	4.16E-08	
14	4	Surface	Iron	mg/kg	3.88E+04	4.26E-02	2.98E-02	4.57E-06	
14	4	Surface	Mercury	mg/kg	4.87E-01	5.34E-07	3.74E-07	1.72E-06	
14	4	Surface	Neptunium-237	pCi/g	2.68E+00	1.13E+03		1.21E-01	1.23E+01
14	4	Surface	Nickel	mg/kg	7.31E+02	8.01E-04	4.48E-04	8.60E-08	
14	4	Surface	PCB, Total	mg/kg	6.61E+00	7.24E-06	1.42E-05	1.32E-06	
14	4	Surface	Silver	mg/kg	1.17E+01	1.28E-05	7.18E-06	1.38E-09	
14	4	Surface	Thorium-230	pCi/g	8.33E+00	3.50E+03		3.76E-01	3.83E+01
14	4	Surface	Total PAH	mg/kg	2.51E-01	2.75E-07	5.00E-07	2.19E-09	
14	4	Surface	Uranium	mg/kg	3.72E+02	4.07E-04	2.85E-04	4.38E-08	
14	4	Surface	Uranium-234	pCi/g	1.13E+02	4.75E+04		5.10E+00	5.20E+02
14	4	Surface	Uranium-235	pCi/g	8.00E+00	3.36E+03		3.61E-01	3.68E+01
14	4	Surface	Uranium-238	pCi/g	1.69E+02	7.10E+04		7.63E+00	7.78E+02
14	5	Surface	Antimony	mg/kg	2.30E+00	2.52E-06	1.76E-06	2.71E-10	
14	5	Surface	Arsenic	mg/kg	1.31E+01	1.43E-05	6.02E-06	1.54E-09	
14	5	Surface	Cadmium	mg/kg	3.90E+00	4.27E-06	5.98E-08	4.59E-10	
14	5	Surface	Chromium	mg/kg	4.70E+01	5.15E-05	3.60E-05	5.53E-09	
14	5	Surface	Cobalt	mg/kg	1.40E+01	1.53E-05	1.07E-05	1.65E-09	
14	5	Surface	Copper	mg/kg	1.34E+02	1.46E-04	1.02E-04	1.57E-08	
14	5	Surface	Iron	mg/kg	3.92E+04	4.30E-02	3.01E-02	4.62E-06	
14	5	Surface	Manganese	mg/kg	8.28E+02	9.07E-04	5.08E-04	9.75E-08	
14	5	Surface	Mercury	mg/kg	1.09E+01	1.20E-05	8.39E-06	3.87E-05	
14	5	Surface	Neptunium-237	pCi/g	1.74E+00	7.31E+02		7.85E-02	8.01E+00
14	5	Surface	Nickel	mg/kg	4.61E+02	5.06E-04	2.83E-04	5.43E-08	
14	5	Surface	PCB, Total	mg/kg	1.00E+00	1.10E-06	2.15E-06	2.00E-07	
14	5	Surface	Silver	mg/kg	1.29E+01	1.41E-05	7.90E-06	1.52E-09	
14	5	Surface	Technetium-99	pCi/g	1.01E+02	4.24E+04		4.56E+00	4.65E+02
14	5	Surface	Thallium	mg/kg	4.10E-01	4.49E-07	3.15E-07	4.83E-11	
14	5	Surface	Thorium-230	pCi/g	1.39E+01	5.84E+03		6.27E-01	6.40E+01
14	5	Surface	Total PAH	mg/kg	1.21E-01	1.33E-07	2.41E-07	1.06E-09	
14	5	Surface	Uranium	mg/kg	2.62E+02	2.87E-04	2.01E-04	3.09E-08	
14	5	Surface	Uranium-234	pCi/g	5.22E+01	2.19E+04		2.36E+00	2.40E+02
14	5	Surface	Uranium-235	pCi/g	3.33E+00	1.40E+03		1.50E-01	1.53E+01
14	5	Surface	Uranium-238	pCi/g	9.42E+01	3.96E+04		4.25E+00	4.34E+02
14	6	Surface	Antimony	mg/kg	2.70E+00	2.96E-06	2.07E-06	3.18E-10	
14	6	Surface	Cadmium	mg/kg	8.40E-01	9.21E-07	1.29E-08	9.89E-11	
14	6	Surface	Chromium	mg/kg	4.46E+02	4.89E-04	3.42E-04	5.25E-08	
14	6	Surface	Copper	mg/kg	1.22E+02	1.34E-04	9.38E-05	1.44E-08	
14	6	Surface	Mercury	mg/kg	3.47E-01	3.80E-07	2.66E-07	1.23E-06	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	6	Surface	Neptunium-237	pCi/g	2.65E+00	1.11E+03		1.20E-01	1.22E+01
14	6	Surface	Nickel	mg/kg	9.63E+02	1.06E-03	5.91E-04	1.13E-07	
14	6	Surface	PCB, Total	mg/kg	5.00E+00	5.48E-06	1.07E-05	1.00E-06	
14	6	Surface	Silver	mg/kg	1.19E+01	1.30E-05	7.29E-06	1.40E-09	
14	6	Surface	Uranium	mg/kg	5.79E+02	6.34E-04	4.44E-04	6.82E-08	
14	6	Surface	Uranium-234	pCi/g	3.41E+01	1.43E+04		1.54E+00	1.57E+02
14	6	Surface	Uranium-235	pCi/g	2.27E+00	9.53E+02		1.02E-01	1.04E+01
14	6	Surface	Uranium-238	pCi/g	5.08E+01	2.13E+04		2.29E+00	2.34E+02
14	7	Surface	Antimony	mg/kg	7.50E-01	8.22E-07	5.75E-07	8.83E-11	
14	7	Surface	Arsenic	mg/kg	1.13E+01	1.24E-05	5.20E-06	1.33E-09	
14	7	Surface	Cadmium	mg/kg	2.70E+00	2.96E-06	4.14E-08	3.18E-10	
14	7	Surface	Chromium	mg/kg	6.46E+01	7.08E-05	4.95E-05	7.60E-09	
14	7	Surface	Mercury	mg/kg	7.82E+00	8.57E-06	6.00E-06	2.76E-05	
14	7	Surface	Neptunium-237	pCi/g	1.49E+00	6.26E+02		6.73E-02	6.86E+00
14	7	Surface	Nickel	mg/kg	1.22E+03	1.34E-03	7.51E-04	1.44E-07	
14	7	Surface	PCB, Total	mg/kg	7.60E+00	8.33E-06	1.63E-05	1.52E-06	
14	7	Surface	Total PAH	mg/kg	6.31E-02	6.92E-08	1.26E-07	5.52E-10	
14	7	Surface	Uranium	mg/kg	3.33E+02	3.65E-04	2.55E-04	3.92E-08	
14	7	Surface	Uranium-234	pCi/g	1.28E+01	5.38E+03		5.78E-01	5.89E+01
14	7	Surface	Uranium-235	pCi/g	9.60E-01	4.03E+02		4.33E-02	4.42E+00
14	7	Surface	Uranium-238	pCi/g	2.13E+01	8.95E+03		9.62E-01	9.80E+01
14	8	Surface	Antimony	mg/kg	6.10E-01	6.68E-07	4.68E-07	7.19E-11	
14	8	Surface	Arsenic	mg/kg	1.14E+01	1.25E-05	5.24E-06	1.34E-09	
14	8	Surface	Chromium	mg/kg	4.60E+01	5.04E-05	3.53E-05	5.42E-09	
14	8	Surface	Mercury	mg/kg	7.90E+00	8.66E-06	6.06E-06	2.79E-05	
14	8	Surface	Neptunium-237	pCi/g	8.80E-01	3.70E+02		3.97E-02	4.05E+00
14	8	Surface	Nickel	mg/kg	6.73E+02	7.37E-04	4.13E-04	7.92E-08	
14	8	Surface	PCB, Total	mg/kg	5.00E+00	5.48E-06	1.07E-05	1.00E-06	
14	8	Surface	Silver	mg/kg	9.63E+00	1.06E-05	5.91E-06	1.13E-09	
14	8	Surface	Total PAH	mg/kg	6.28E-02	6.88E-08	1.25E-07	5.49E-10	
14	8	Surface	Uranium	mg/kg	3.35E+02	3.67E-04	2.57E-04	3.95E-08	
14	8	Surface	Uranium-235	pCi/g	2.38E-01	1.00E+02		1.07E-02	1.10E+00
14	8	Surface	Uranium-238	pCi/g	5.92E+00	2.49E+03		2.67E-01	2.72E+01
14	9	Surface	Antimony	mg/kg	2.00E+00	2.19E-06	1.53E-06	2.36E-10	
14	9	Surface	Arsenic	mg/kg	1.40E+01	1.54E-05	6.46E-06	1.65E-09	
14	9	Surface	Cadmium	mg/kg	9.40E-01	1.03E-06	1.44E-08	1.11E-10	
14	9	Surface	Cesium-137	pCi/g	4.53E-01	1.90E+02		2.04E-02	2.09E+00
14	9	Surface	Chromium	mg/kg	4.64E+01	5.09E-05	3.56E-05	5.47E-09	
14	9	Surface	Mercury	mg/kg	1.13E+00	1.24E-06	8.67E-07	3.99E-06	
14	9	Surface	Neptunium-237	pCi/g	1.09E+01	4.59E+03		4.93E-01	5.03E+01
14	9	Surface	Nickel	mg/kg	9.43E+02	1.03E-03	5.79E-04	1.11E-07	
14	9	Surface	PCB, Total	mg/kg	6.84E+00	7.50E-06	1.47E-05	1.37E-06	
14	9	Surface	Technetium-99	pCi/g	1.96E+02	8.23E+04		8.84E+00	9.02E+02
14	9	Surface	Total PAH	mg/kg	4.87E-01	5.34E-07	9.72E-07	4.26E-09	
14	9	Surface	Uranium	mg/kg	1.46E+03	1.60E-03	1.12E-03	1.72E-07	
14	9	Surface	Uranium-234	pCi/g	8.32E+02	3.49E+05		3.76E+01	3.83E+03
14	9	Surface	Uranium-235	pCi/g	5.46E+01	2.29E+04		2.46E+00	2.51E+02
14	9	Surface	Uranium-238	pCi/g	1.20E+03	5.04E+05		5.42E+01	5.52E+03
14	10	Surface	Antimony	mg/kg	9.40E-01	1.03E-06	7.21E-07	1.11E-10	
14	10	Surface	Arsenic	mg/kg	1.12E+01	1.23E-05	5.17E-06	1.32E-09	
14	10	Surface	Chromium	mg/kg	4.19E+01	4.59E-05	3.21E-05	4.93E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	10	Surface	Copper	mg/kg	1.41E+02	1.55E-04	1.08E-04	1.66E-08	
14	10	Surface	Iron	mg/kg	2.75E+04	3.01E-02	2.11E-02	3.23E-06	
14	10	Surface	Mercury	mg/kg	2.51E+01	2.75E-05	1.92E-05	8.87E-05	
14	10	Surface	Neptunium-237	pCi/g	2.64E+00	1.11E+03		1.19E-01	1.22E+01
14	10	Surface	Nickel	mg/kg	6.00E+02	6.58E-04	3.68E-04	7.07E-08	
14	10	Surface	PCB, Total	mg/kg	9.38E+00	1.03E-05	2.01E-05	1.88E-06	
14	10	Surface	Total PAH	mg/kg	2.72E-01	2.98E-07	5.42E-07	2.37E-09	
14	10	Surface	Uranium	mg/kg	2.88E+02	3.16E-04	2.21E-04	3.40E-08	
14	10	Surface	Uranium-234	pCi/g	2.42E+01	1.02E+04		1.09E+00	1.11E+02
14	10	Surface	Uranium-235	pCi/g	1.76E+00	7.39E+02		7.95E-02	8.10E+00
14	10	Surface	Uranium-238	pCi/g	4.09E+01	1.72E+04		1.85E+00	1.88E+02
15	1	Surface	Antimony	mg/kg	6.40E-01	7.01E-07	4.91E-07	7.54E-11	
15	1	Surface	Arsenic	mg/kg	1.24E+01	1.36E-05	5.69E-06	1.46E-09	
15	1	Surface	Chromium	mg/kg	5.61E+01	6.15E-05	4.30E-05	6.61E-09	
15	1	Surface	Copper	mg/kg	1.95E+02	2.13E-04	1.49E-04	2.29E-08	
15	1	Surface	Iron	mg/kg	2.95E+04	3.24E-02	2.26E-02	3.48E-06	
15	1	Surface	Nickel	mg/kg	1.33E+02	1.45E-04	8.14E-05	1.56E-08	
15	1	Surface	PCB, Total	mg/kg	7.80E-02	8.55E-08	1.68E-07	1.56E-08	
15	1	Surface	Silver	mg/kg	1.23E+01	1.35E-05	7.54E-06	1.45E-09	
15	1	Surface	Total PAH	mg/kg	1.71E+00	1.88E-06	3.42E-06	1.50E-08	
15	1	Surface	Uranium	mg/kg	3.09E+01	3.39E-05	2.37E-05	3.64E-09	
15	1	Surface	Uranium-238	pCi/g	1.85E+00	7.77E+02		8.35E-02	8.52E+00
15	2	Surface	Antimony	mg/kg	6.60E-01	7.23E-07	5.06E-07	7.77E-11	
15	2	Surface	Arsenic	mg/kg	1.63E+01	1.78E-05	7.48E-06	1.92E-09	
15	2	Surface	Chromium	mg/kg	5.90E+01	6.47E-05	4.53E-05	6.95E-09	
15	2	Surface	Iron	mg/kg	3.89E+04	4.26E-02	2.98E-02	4.58E-06	
15	2	Surface	Mercury	mg/kg	9.33E+00	1.02E-05	7.16E-06	3.30E-05	
15	2	Surface	Neptunium-237	pCi/g	1.35E-01	5.67E+01		6.09E-03	6.21E-01
15	2	Surface	Nickel	mg/kg	1.97E+02	2.16E-04	1.21E-04	2.32E-08	
15	2	Surface	PCB, Total	mg/kg	3.30E-01	3.62E-07	7.09E-07	6.60E-08	
15	2	Surface	Total PAH	mg/kg	2.11E+00	2.31E-06	4.20E-06	1.84E-08	
15	2	Surface	Uranium	mg/kg	1.32E+02	1.44E-04	1.01E-04	1.55E-08	
15	2	Surface	Uranium-234	pCi/g	6.51E+00	2.73E+03		2.94E-01	3.00E+01
15	2	Surface	Uranium-235	pCi/g	3.80E-01	1.60E+02		1.72E-02	1.75E+00
15	2	Surface	Uranium-238	pCi/g	1.21E+01	5.08E+03		5.46E-01	5.57E+01
15	3	Surface	Antimony	mg/kg	2.45E+01	2.68E-05	1.88E-05	2.89E-09	
15	3	Surface	Arsenic	mg/kg	2.60E+01	2.85E-05	1.20E-05	3.06E-09	
15	3	Surface	Beryllium	mg/kg	7.60E-01	8.33E-07	8.16E-08	8.95E-11	
15	3	Surface	Cadmium	mg/kg	1.19E+01	1.30E-05	1.83E-07	1.40E-09	
15	3	Surface	Chromium	mg/kg	7.53E+01	8.26E-05	5.78E-05	8.87E-09	
15	3	Surface	Cobalt	mg/kg	3.41E+01	3.74E-05	2.62E-05	4.02E-09	
15	3	Surface	Copper	mg/kg	1.40E+03	1.53E-03	1.07E-03	1.64E-07	
15	3	Surface	Iron	mg/kg	9.20E+04	1.01E-01	7.06E-02	1.08E-05	
15	3	Surface	Manganese	mg/kg	1.60E+03	1.76E-03	9.84E-04	1.89E-07	
15	3	Surface	Mercury	mg/kg	2.74E+00	3.00E-06	2.10E-06	9.68E-06	
15	3	Surface	Molybdenum	mg/kg	1.70E+01	1.86E-05	1.30E-05	2.00E-09	
15	3	Surface	Neptunium-237	pCi/g	4.10E+00	1.72E+03		1.85E-01	1.89E+01
15	3	Surface	Nickel	mg/kg	7.57E+02	8.29E-04	4.64E-04	8.91E-08	
15	3	Surface	PCB, Total	mg/kg	6.82E+00	7.48E-06	1.47E-05	1.36E-06	
15	3	Surface	Selenium	mg/kg	2.65E+01	2.90E-05	2.03E-05	3.12E-09	
15	3	Surface	Silver	mg/kg	3.20E+00	3.51E-06	1.96E-06	3.77E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	3	Surface	Technetium-99	pCi/g	3.67E+02	1.54E+05		1.66E+01	1.69E+03
15	3	Surface	Thorium-230	pCi/g	7.23E+00	3.04E+03		3.26E-01	3.33E+01
15	3	Surface	Total PAH	mg/kg	1.45E+00	1.59E-06	2.90E-06	1.27E-08	
15	3	Surface	Uranium	mg/kg	2.16E+02	2.37E-04	1.66E-04	2.54E-08	
15	3	Surface	Uranium-234	pCi/g	6.96E+01	2.92E+04		3.14E+00	3.20E+02
15	3	Surface	Uranium-235	pCi/g	4.21E+00	1.77E+03		1.90E-01	1.94E+01
15	3	Surface	Uranium-238	pCi/g	9.67E+01	4.06E+04		4.37E+00	4.45E+02
15	3	Surface	Zinc	mg/kg	8.79E+02	9.63E-04	6.74E-04	1.04E-07	
15	4	Surface	Antimony	mg/kg	7.40E+00	8.11E-06	5.68E-06	8.72E-10	
15	4	Surface	Arsenic	mg/kg	3.47E+01	3.80E-05	1.59E-05	4.08E-09	
15	4	Surface	Cadmium	mg/kg	1.40E+00	1.53E-06	2.15E-08	1.65E-10	
15	4	Surface	Chromium	mg/kg	1.02E+02	1.12E-04	7.84E-05	1.20E-08	
15	4	Surface	Copper	mg/kg	7.05E+02	7.73E-04	5.41E-04	8.30E-08	
15	4	Surface	Iron	mg/kg	7.81E+04	8.56E-02	5.99E-02	9.20E-06	
15	4	Surface	Manganese	mg/kg	1.54E+03	1.68E-03	9.43E-04	1.81E-07	
15	4	Surface	Mercury	mg/kg	1.41E+01	1.54E-05	1.08E-05	4.98E-05	
15	4	Surface	Neptunium-237	pCi/g	8.00E-01	3.36E+02		3.61E-02	3.68E+00
15	4	Surface	Nickel	mg/kg	1.37E+03	1.51E-03	8.43E-04	1.62E-07	
15	4	Surface	PCB, Total	mg/kg	2.67E+01	2.93E-05	5.74E-05	5.34E-06	
15	4	Surface	Silver	mg/kg	1.46E+01	1.60E-05	8.96E-06	1.72E-09	
15	4	Surface	Total PAH	mg/kg	2.44E+00	2.68E-06	4.88E-06	2.14E-08	
15	4	Surface	Uranium	mg/kg	1.57E+02	1.72E-04	1.20E-04	1.84E-08	
15	4	Surface	Uranium-234	pCi/g	1.07E+01	4.49E+03		4.83E-01	4.92E+01
15	4	Surface	Uranium-235	pCi/g	4.30E-01	1.81E+02		1.94E-02	1.98E+00
15	4	Surface	Uranium-238	pCi/g	1.87E+01	7.85E+03		8.44E-01	8.61E+01
15	4	Surface	Zinc	mg/kg	1.19E+03	1.30E-03	9.12E-04	1.40E-07	
15	5	Surface	Antimony	mg/kg	3.10E+00	3.40E-06	2.38E-06	3.65E-10	
15	5	Surface	Arsenic	mg/kg	1.28E+01	1.40E-05	5.89E-06	1.51E-09	
15	5	Surface	Cadmium	mg/kg	1.50E+00	1.64E-06	2.30E-08	1.77E-10	
15	5	Surface	Chromium	mg/kg	4.28E+01	4.69E-05	3.28E-05	5.04E-09	
15	5	Surface	Copper	mg/kg	5.63E+03	6.17E-03	4.32E-03	6.63E-07	
15	5	Surface	Mercury	mg/kg	3.38E-01	3.70E-07	2.59E-07	1.19E-06	
15	5	Surface	Neptunium-237	pCi/g	6.90E-01	2.90E+02		3.11E-02	3.18E+00
15	5	Surface	Nickel	mg/kg	5.10E+02	5.59E-04	3.13E-04	6.01E-08	
15	5	Surface	PCB, Total	mg/kg	2.51E+01	2.75E-05	5.40E-05	5.03E-06	
15	5	Surface	Silver	mg/kg	1.46E+01	1.60E-05	8.96E-06	1.72E-09	
15	5	Surface	Technetium-99	pCi/g	1.07E+02	4.49E+04		4.83E+00	4.92E+02
15	5	Surface	Total PAH	mg/kg	5.11E-01	5.60E-07	1.02E-06	4.46E-09	
15	5	Surface	Uranium	mg/kg	2.13E+02	2.34E-04	1.64E-04	2.51E-08	
15	5	Surface	Uranium-234	pCi/g	5.83E+00	2.45E+03		2.63E-01	2.68E+01
15	5	Surface	Uranium-235	pCi/g	4.60E-01	1.93E+02		2.08E-02	2.12E+00
15	5	Surface	Uranium-238	pCi/g	1.03E+01	4.33E+03		4.65E-01	4.74E+01
15	5	Surface	Zinc	mg/kg	1.52E+03	1.67E-03	1.17E-03	1.80E-07	
15	6	Surface	Antimony	mg/kg	5.10E+00	5.59E-06	3.91E-06	6.01E-10	
15	6	Surface	Arsenic	mg/kg	1.24E+01	1.36E-05	5.72E-06	1.46E-09	
15	6	Surface	Cadmium	mg/kg	1.50E+00	1.64E-06	2.30E-08	1.77E-10	
15	6	Surface	Chromium	mg/kg	5.80E+01	6.35E-05	4.45E-05	6.83E-09	
15	6	Surface	Cobalt	mg/kg	1.62E+01	1.78E-05	1.24E-05	1.91E-09	
15	6	Surface	Copper	mg/kg	4.23E+02	4.63E-04	3.24E-04	4.98E-08	
15	6	Surface	Iron	mg/kg	3.15E+04	3.45E-02	2.42E-02	3.71E-06	
15	6	Surface	Mercury	mg/kg	4.10E-01	4.49E-07	3.15E-07	1.45E-06	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	6	Surface	Neptunium-237	pCi/g	6.40E-01	2.69E+02		2.89E-02	2.95E+00
15	6	Surface	Nickel	mg/kg	3.24E+02	3.55E-04	1.99E-04	3.82E-08	
15	6	Surface	PCB, Total	mg/kg	6.17E+00	6.76E-06	1.32E-05	1.23E-06	
15	6	Surface	Silver	mg/kg	1.09E+01	1.20E-05	6.70E-06	1.29E-09	
15	6	Surface	Total PAH	mg/kg	1.62E+00	1.78E-06	3.24E-06	1.42E-08	
15	6	Surface	Uranium	mg/kg	6.70E+01	7.35E-05	5.14E-05	7.90E-09	
15	6	Surface	Uranium-234	pCi/g	8.74E+00	3.67E+03		3.95E-01	4.02E+01
15	6	Surface	Uranium-235	pCi/g	5.70E-01	2.39E+02		2.57E-02	2.62E+00
15	6	Surface	Uranium-238	pCi/g	1.54E+01	6.47E+03		6.95E-01	7.09E+01
15	7	Surface	Antimony	mg/kg	7.50E-01	8.22E-07	5.75E-07	8.83E-11	
15	7	Surface	Arsenic	mg/kg	1.61E+01	1.76E-05	7.40E-06	1.89E-09	
15	7	Surface	Cadmium	mg/kg	1.00E+00	1.10E-06	1.53E-08	1.18E-10	
15	7	Surface	Chromium	mg/kg	7.87E+01	8.63E-05	6.04E-05	9.27E-09	
15	7	Surface	Copper	mg/kg	7.33E+02	8.04E-04	5.62E-04	8.64E-08	
15	7	Surface	Iron	mg/kg	3.42E+04	3.75E-02	2.62E-02	4.03E-06	
15	7	Surface	Manganese	mg/kg	1.11E+03	1.21E-03	6.78E-04	1.30E-07	
15	7	Surface	Neptunium-237	pCi/g	2.23E-01	9.37E+01		1.01E-02	1.03E+00
15	7	Surface	Nickel	mg/kg	5.59E+02	6.12E-04	3.43E-04	6.58E-08	
15	7	Surface	PCB, Total	mg/kg	2.57E+01	2.81E-05	5.51E-05	5.13E-06	
15	7	Surface	Silver	mg/kg	1.29E+01	1.41E-05	7.89E-06	1.51E-09	
15	7	Surface	Total PAH	mg/kg	1.59E-01	1.74E-07	3.17E-07	1.39E-09	
15	7	Surface	Uranium	mg/kg	5.39E+01	5.91E-05	4.13E-05	6.35E-09	
15	7	Surface	Uranium-234	pCi/g	6.49E+00	2.73E+03		2.93E-01	2.99E+01
15	7	Surface	Uranium-235	pCi/g	4.50E-01	1.89E+02		2.03E-02	2.07E+00
15	7	Surface	Uranium-238	pCi/g	8.05E+00	3.38E+03		3.63E-01	3.71E+01
15	7	Surface	Zinc	mg/kg	5.87E+02	6.43E-04	4.50E-04	6.91E-08	
15	8	Surface	Antimony	mg/kg	5.40E+00	5.92E-06	4.14E-06	6.36E-10	
15	8	Surface	Arsenic	mg/kg	1.17E+01	1.28E-05	5.36E-06	1.37E-09	
15	8	Surface	Chromium	mg/kg	7.74E+01	8.48E-05	5.94E-05	9.12E-09	
15	8	Surface	Copper	mg/kg	1.62E+02	1.77E-04	1.24E-04	1.91E-08	
15	8	Surface	Iron	mg/kg	2.83E+04	3.10E-02	2.17E-02	3.33E-06	
15	8	Surface	Mercury	mg/kg	1.00E+01	1.10E-05	7.70E-06	3.55E-05	
15	8	Surface	Neptunium-237	pCi/g	3.65E-01	1.53E+02		1.65E-02	1.68E+00
15	8	Surface	Nickel	mg/kg	1.82E+02	1.99E-04	1.12E-04	2.14E-08	
15	8	Surface	PCB, Total	mg/kg	4.90E+00	5.37E-06	1.05E-05	9.80E-07	
15	8	Surface	Silver	mg/kg	1.36E+01	1.48E-05	8.32E-06	1.60E-09	
15	8	Surface	Total PAH	mg/kg	3.59E-01	3.93E-07	7.16E-07	3.14E-09	
15	8	Surface	Uranium	mg/kg	4.46E+01	4.88E-05	3.42E-05	5.25E-09	
15	8	Surface	Uranium-235	pCi/g	3.04E-01	1.28E+02		1.37E-02	1.40E+00
15	8	Surface	Uranium-238	pCi/g	6.64E+00	2.79E+03		3.00E-01	3.06E+01
15	9	Surface	Arsenic	mg/kg	1.10E+01	1.21E-05	5.08E-06	1.30E-09	
15	9	Surface	Chromium	mg/kg	9.56E+01	1.05E-04	7.33E-05	1.13E-08	
15	9	Surface	Copper	mg/kg	1.36E+02	1.49E-04	1.04E-04	1.60E-08	
15	9	Surface	Iron	mg/kg	2.76E+04	3.02E-02	2.12E-02	3.25E-06	
15	9	Surface	Neptunium-237	pCi/g	1.28E-01	5.38E+01		5.78E-03	5.89E-01
15	9	Surface	Nickel	mg/kg	1.49E+02	1.63E-04	9.14E-05	1.75E-08	
15	9	Surface	PCB, Total	mg/kg	3.30E-01	3.62E-07	7.09E-07	6.60E-08	
15	9	Surface	Silver	mg/kg	1.54E+01	1.69E-05	9.46E-06	1.82E-09	
15	9	Surface	Total PAH	mg/kg	2.38E-01	2.61E-07	4.75E-07	2.08E-09	
15	9	Surface	Uranium	mg/kg	3.07E+01	3.36E-05	2.35E-05	3.61E-09	
15	9	Surface	Uranium-235	pCi/g	2.42E-01	1.02E+02		1.09E-02	1.11E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	9	Surface	Uranium-238	pCi/g	7.12E+00	2.99E+03		3.21E-01	3.28E+01
15	10	Surface	Chromium	mg/kg	3.55E+01	3.89E-05	2.72E-05	4.18E-09	
15	10	Surface	Mercury	mg/kg	7.84E+00	8.59E-06	6.01E-06	2.77E-05	
15	10	Surface	Nickel	mg/kg	1.46E+02	1.60E-04	8.94E-05	1.72E-08	
15	10	Surface	Silver	mg/kg	1.08E+01	1.18E-05	6.63E-06	1.27E-09	
15	10	Surface	Total PAH	mg/kg	1.28E-01	1.41E-07	2.56E-07	1.12E-09	
15	10	Surface	Uranium	mg/kg	6.47E+01	7.09E-05	4.97E-05	7.62E-09	
16	1	Surface	Cesium-137	pCi/g	1.10E+00	4.62E+02		4.97E-02	5.06E+00
16	1	Surface	PCB, Total	mg/kg	9.60E-02	1.05E-07	2.06E-07	1.92E-08	
16	1	Surface	Total PAH	mg/kg	2.72E-02	2.98E-08	5.43E-08	2.38E-10	
16	2	Surface	Beryllium	mg/kg	8.40E-01	9.21E-07	9.02E-08	9.89E-11	
16	2	Surface	Chromium	mg/kg	2.04E+01	2.24E-05	1.56E-05	2.40E-09	
16	2	Surface	Nickel	mg/kg	2.16E+01	2.37E-05	1.33E-05	2.54E-09	
16	3	Surface	PCB, Total	mg/kg	9.49E-01	1.04E-06	2.04E-06	1.90E-07	
16	4	Surface	Cesium-137	pCi/g	3.66E+01	1.54E+04		1.65E+00	1.68E+02
16	4	Surface	Cobalt-60	pCi/g	8.53E-03	3.58E+00		3.85E-04	3.93E-02
16	4	Surface	Neptunium-237	pCi/g	7.12E+00	2.99E+03		3.21E-01	3.28E+01
16	4	Surface	PCB, Total	mg/kg	3.20E-01	3.51E-07	6.87E-07	6.40E-08	
16	4	Surface	Technetium-99	pCi/g	2.96E+02	1.24E+05		1.33E+01	1.36E+03
16	4	Surface	Thorium-230	pCi/g	5.29E+00	2.22E+03		2.39E-01	2.43E+01
16	4	Surface	Total PAH	mg/kg	2.93E+00	3.21E-06	5.84E-06	2.56E-08	
16	4	Surface	Uranium-234	pCi/g	1.19E+02	5.00E+04		5.37E+00	5.48E+02
16	4	Surface	Uranium-235	pCi/g	8.23E+00	3.46E+03		3.72E-01	3.79E+01
16	4	Surface	Uranium-238	pCi/g	2.70E+02	1.13E+05		1.22E+01	1.24E+03
19	1	Surface	Beryllium	mg/kg	1.10E+00	1.21E-06	1.18E-07	1.30E-10	
19	1	Surface	Cadmium	mg/kg	1.20E+00	1.32E-06	1.84E-08	1.41E-10	
19	1	Surface	Thallium	mg/kg	9.80E-01	1.07E-06	7.52E-07	1.15E-10	
19	1	Surface	Total PAH	mg/kg	5.23E+00	5.73E-06	1.04E-05	4.57E-08	
26	1	Surface	Arsenic	mg/kg	1.29E+01	1.41E-05	5.93E-06	1.52E-09	
26	1	Surface	Beryllium	mg/kg	6.69E-01	7.33E-07	7.18E-08	7.88E-11	
26	1	Surface	Cadmium	mg/kg	1.99E+00	2.18E-06	3.06E-08	2.35E-10	
26	1	Surface	Cesium-137	pCi/g	3.16E+00	1.33E+03		1.43E-01	1.46E+01
26	1	Surface	Chromium	mg/kg	1.90E+01	2.08E-05	1.46E-05	2.24E-09	
26	1	Surface	Cobalt-60	pCi/g	1.93E-03	8.11E-01		8.71E-05	8.88E-03
26	1	Surface	Mercury	mg/kg	1.66E-01	1.82E-07	1.27E-07	5.87E-07	
26	1	Surface	Neptunium-237	pCi/g	2.61E-01	1.10E+02		1.18E-02	1.20E+00
26	1	Surface	Nickel	mg/kg	1.76E+01	1.93E-05	1.08E-05	2.07E-09	
26	1	Surface	PCB, Total	mg/kg	9.33E-01	1.02E-06	2.00E-06	1.87E-07	
26	1	Surface	Plutonium-239/240	pCi/g	4.04E+00	1.70E+03		1.82E-01	1.86E+01
26	1	Surface	Thorium-230	pCi/g	3.82E+00	1.60E+03		1.72E-01	1.76E+01
26	1	Surface	Total PAH	mg/kg	5.00E-02	5.48E-08	9.97E-08	4.37E-10	
26	1	Surface	Uranium	mg/kg	1.29E+02	1.41E-04	9.87E-05	1.52E-08	
26	1	Surface	Uranium-234	pCi/g	4.67E+00	1.96E+03		2.11E-01	2.15E+01
26	1	Surface	Uranium-235	pCi/g	6.41E-01	2.69E+02		2.89E-02	2.95E+00
26	1	Surface	Uranium-238	pCi/g	3.47E+01	1.46E+04		1.57E+00	1.60E+02
26	2	Surface	Aluminum	mg/kg	2.17E+04	2.37E-02	1.66E-02	2.55E-06	
26	2	Surface	Arsenic	mg/kg	4.72E+01	5.17E-05	2.17E-05	5.56E-09	
26	2	Surface	Barium	mg/kg	1.49E+02	1.63E-04	1.14E-04	1.75E-08	
26	2	Surface	Beryllium	mg/kg	9.69E+00	1.06E-05	1.04E-06	1.14E-09	
26	2	Surface	Cadmium	mg/kg	2.38E+00	2.61E-06	3.65E-08	2.80E-10	
26	2	Surface	Cesium-137	pCi/g	5.92E+00	2.49E+03		2.67E-01	2.73E+01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
26	2	Surface	Chromium	mg/kg	3.90E+01	4.27E-05	2.99E-05	4.59E-09	
26	2	Surface	Cobalt	mg/kg	5.20E+01	5.70E-05	3.99E-05	6.12E-09	
26	2	Surface	Copper	mg/kg	1.31E+02	1.44E-04	1.00E-04	1.54E-08	
26	2	Surface	Iron	mg/kg	5.32E+04	5.83E-02	4.08E-02	6.26E-06	
26	2	Surface	Neptunium-237	pCi/g	7.89E-01	3.31E+02		3.56E-02	3.63E+00
26	2	Surface	Nickel	mg/kg	1.13E+02	1.24E-04	6.94E-05	1.33E-08	
26	2	Surface	PCB, Total	mg/kg	2.23E+00	2.44E-06	4.79E-06	4.46E-07	
26	2	Surface	Thallium	mg/kg	1.39E+01	1.52E-05	1.07E-05	1.64E-09	
26	2	Surface	Thorium-230	pCi/g	1.51E+01	6.35E+03		6.83E-01	6.96E+01
26	2	Surface	Uranium	mg/kg	6.46E+02	7.08E-04	4.96E-04	7.61E-08	
26	2	Surface	Uranium-234	pCi/g	1.91E+01	8.01E+03		8.61E-01	8.78E+01
26	2	Surface	Uranium-235	pCi/g	1.71E+00	7.17E+02		7.71E-02	7.86E+00
26	2	Surface	Uranium-238	pCi/g	5.14E+01	2.16E+04		2.32E+00	2.37E+02
26	2	Surface	Vanadium	mg/kg	3.13E+01	3.42E-05	1.25E-05	3.68E-09	
26	3	Surface	Aluminum	mg/kg	9.55E+03	1.05E-02	7.32E-03	1.12E-06	
26	3	Surface	Antimony	mg/kg	1.40E+00	1.53E-06	1.07E-06	1.65E-10	
26	3	Surface	Arsenic	mg/kg	5.09E+01	5.58E-05	2.34E-05	5.99E-09	
26	3	Surface	Barium	mg/kg	4.48E+02	4.90E-04	3.43E-04	5.27E-08	
26	3	Surface	Beryllium	mg/kg	2.54E+00	2.78E-06	2.72E-07	2.99E-10	
26	3	Surface	Cadmium	mg/kg	2.34E+00	2.56E-06	3.59E-08	2.76E-10	
26	3	Surface	Cesium-137	pCi/g	7.48E-01	3.14E+02		3.38E-02	3.44E+00
26	3	Surface	Chromium	mg/kg	3.25E+01	3.57E-05	2.50E-05	3.83E-09	
26	3	Surface	Cobalt	mg/kg	1.21E+01	1.33E-05	9.29E-06	1.43E-09	
26	3	Surface	Mercury	mg/kg	3.87E-01	4.24E-07	2.97E-07	1.37E-06	
26	3	Surface	Naphthalene	mg/kg	1.32E+00	1.45E-06	5.06E-06	5.22E-06	
26	3	Surface	Neptunium-237	pCi/g	7.53E-01	3.16E+02		3.40E-02	3.47E+00
26	3	Surface	Nickel	mg/kg	2.97E+01	3.25E-05	1.82E-05	3.50E-09	
26	3	Surface	PCB, Total	mg/kg	2.52E+00	2.76E-06	5.41E-06	5.04E-07	
26	3	Surface	Silver	mg/kg	2.59E+01	2.84E-05	1.59E-05	3.05E-09	
26	3	Surface	Technetium-99	pCi/g	6.48E+01	2.72E+04		2.92E+00	2.98E+02
26	3	Surface	Thallium	mg/kg	6.00E-01	6.58E-07	4.60E-07	7.07E-11	
26	3	Surface	Thorium-230	pCi/g	7.10E+00	2.98E+03		3.20E-01	3.27E+01
26	3	Surface	Total PAH	mg/kg	1.19E+00	1.30E-06	2.37E-06	1.04E-08	
26	3	Surface	Uranium	mg/kg	9.88E+01	1.08E-04	7.58E-05	1.16E-08	
26	3	Surface	Uranium-234	pCi/g	4.63E+01	1.95E+04		2.09E+00	2.13E+02
26	3	Surface	Uranium-235	pCi/g	1.69E+00	7.10E+02		7.63E-02	7.78E+00
26	3	Surface	Uranium-238	pCi/g	5.19E+01	2.18E+04		2.34E+00	2.39E+02
26	3	Surface	Vanadium	mg/kg	3.77E+01	4.13E-05	1.50E-05	4.44E-09	
26	4	Surface	Aluminum	mg/kg	1.07E+04	1.17E-02	8.18E-03	1.26E-06	
26	4	Surface	Americium-241	pCi/g	1.27E+00	5.35E+02		5.75E-02	5.86E+00
26	4	Surface	Antimony	mg/kg	6.00E-01	6.58E-07	4.60E-07	7.07E-11	
26	4	Surface	Beryllium	mg/kg	6.91E-01	7.57E-07	7.42E-08	8.14E-11	
26	4	Surface	Cadmium	mg/kg	1.99E+00	2.18E-06	3.05E-08	2.35E-10	
26	4	Surface	Cesium-137	pCi/g	6.38E-01	2.68E+02		2.88E-02	2.94E+00
26	4	Surface	Chromium	mg/kg	8.57E+01	9.40E-05	6.58E-05	1.01E-08	
26	4	Surface	Cobalt-60	pCi/g	1.21E-03	5.08E-01		5.46E-05	5.57E-03
26	4	Surface	Copper	mg/kg	1.16E+02	1.27E-04	8.88E-05	1.36E-08	
26	4	Surface	Mercury	mg/kg	3.07E+00	3.37E-06	2.36E-06	1.09E-05	
26	4	Surface	Neptunium-237	pCi/g	1.36E+01	5.70E+03		6.13E-01	6.25E+01
26	4	Surface	Nickel	mg/kg	7.54E+01	8.27E-05	4.63E-05	8.88E-09	
26	4	Surface	PCB, Total	mg/kg	5.54E-01	6.07E-07	1.19E-06	1.11E-07	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
26	4	Surface	Plutonium-239/240	pCi/g	5.00E+00	2.10E+03		2.26E-01	2.30E+01
26	4	Surface	Technetium-99	pCi/g	5.97E+02	2.51E+05		2.70E+01	2.75E+03
26	4	Surface	Thorium-230	pCi/g	3.26E+01	1.37E+04		1.47E+00	1.50E+02
26	4	Surface	Total PAH	mg/kg	2.83E-02	3.10E-08	5.65E-08	2.48E-10	
26	4	Surface	Uranium	mg/kg	9.75E+02	1.07E-03	7.48E-04	1.15E-07	
26	4	Surface	Uranium-234	pCi/g	1.54E+02	6.48E+04		6.97E+00	7.11E+02
26	4	Surface	Uranium-235	pCi/g	1.08E+01	4.54E+03		4.88E-01	4.97E+01
26	4	Surface	Uranium-238	pCi/g					
47	1	Surface	Aluminum	mg/kg	1.50E+04	1.64E-02	1.15E-02	1.77E-06	
47	1	Surface	Antimony	mg/kg	9.00E-01	9.86E-07	6.90E-07	1.06E-10	
47	1	Surface	Arsenic	mg/kg	4.52E+01	4.95E-05	2.08E-05	5.32E-09	
47	1	Surface	Beryllium	mg/kg	7.00E-01	7.67E-07	7.52E-08	8.25E-11	
47	1	Surface	Cadmium	mg/kg	4.25E+00	4.66E-06	6.52E-08	5.01E-10	
47	1	Surface	Chromium	mg/kg	5.39E+01	5.91E-05	4.13E-05	6.35E-09	
47	1	Surface	Cobalt	mg/kg	1.43E+01	1.57E-05	1.10E-05	1.68E-09	
47	1	Surface	Iron	mg/kg	2.95E+04	3.23E-02	2.26E-02	3.47E-06	
47	1	Surface	Naphthalene	mg/kg	1.90E+00	2.08E-06	7.29E-06	7.51E-06	
47	1	Surface	Neptunium-237	pCi/g	1.15E-01	4.83E+01		5.19E-03	5.29E-01
47	1	Surface	Nickel	mg/kg	8.25E+01	9.04E-05	5.06E-05	9.72E-09	
47	1	Surface	PCB, Total	mg/kg	9.60E-01	1.05E-06	2.06E-06	1.92E-07	
47	1	Surface	Plutonium-239/240	pCi/g	4.11E+00	1.73E+03		1.86E-01	1.89E+01
47	1	Surface	Pyrene	mg/kg	1.11E+02	1.21E-04	2.21E-04	8.60E-06	
47	1	Surface	Thorium-230	pCi/g	4.11E+01	1.73E+04		1.86E+00	1.89E+02
47	1	Surface	Total PAH	mg/kg	5.41E+01	5.93E-05	1.08E-04	4.73E-07	
47	1	Surface	Uranium	mg/kg	3.23E+01	3.54E-05	2.48E-05	3.81E-09	
47	1	Surface	Uranium-234	pCi/g	6.85E+00	2.88E+03		3.09E-01	3.15E+01
47	1	Surface	Uranium-235	pCi/g	5.00E-01	2.10E+02		2.26E-02	2.30E+00
47	1	Surface	Uranium-238	pCi/g	7.93E+00	3.33E+03		3.58E-01	3.65E+01
74	1	Surface	PCB, Total	mg/kg	2.97E+00	3.26E-06	6.39E-06	5.95E-07	
74	1	Surface	Total PAH	mg/kg	3.16E+00	3.46E-06	6.31E-06	2.76E-08	
74	1	Surface	Uranium-234	pCi/g	7.55E+00	3.17E+03		3.41E-01	3.48E+01
74	1	Surface	Uranium-238	pCi/g	3.85E+01	1.62E+04		1.74E+00	1.77E+02
75	1	Surface	Cadmium	mg/kg	1.10E+00	1.21E-06	1.69E-08	1.30E-10	
75	1	Surface	Chromium	mg/kg	7.17E+01	7.86E-05	5.50E-05	8.45E-09	
75	1	Surface	Copper	mg/kg	3.15E+02	3.45E-04	2.42E-04	3.71E-08	
75	1	Surface	Nickel	mg/kg	8.87E+01	9.72E-05	5.44E-05	1.05E-08	
75	1	Surface	PCB, Total	mg/kg	2.30E-01	2.52E-07	4.94E-07	4.60E-08	
75	1	Surface	Total PAH	mg/kg	2.21E-01	2.43E-07	4.42E-07	1.94E-09	
76	1	Surface	Barium	mg/kg	2.69E+02	2.95E-04	2.06E-04	3.17E-08	
76	1	Surface	PCB, Total	mg/kg	2.60E-01	2.85E-07	5.58E-07	5.20E-08	
76	1	Surface	Total PAH	mg/kg	1.76E+00	1.93E-06	3.51E-06	1.54E-08	
76	1	Surface	Uranium-238	pCi/g	1.45E+00	6.09E+02		6.55E-02	6.67E+00
78	1	Surface	Cadmium	mg/kg	2.36E+00	2.59E-06	3.62E-08	2.78E-10	
78	1	Surface	Chromium	mg/kg	3.75E+01	4.11E-05	2.88E-05	4.42E-09	
78	1	Surface	Cobalt-60	pCi/g	5.91E-03	2.48E+00		2.67E-04	2.72E-02
78	1	Surface	Naphthalene	mg/kg	1.60E+01	1.75E-05	6.14E-05	6.33E-05	
78	1	Surface	Nickel	mg/kg	2.15E+01	2.36E-05	1.32E-05	2.53E-09	
78	1	Surface	PCB, Total	mg/kg	1.20E+01	1.32E-05	2.58E-05	2.40E-06	
78	1	Surface	Total PAH	mg/kg	3.91E+01	4.29E-05	7.80E-05	3.42E-07	
78	1	Surface	Uranium-235	pCi/g	2.64E-01	1.11E+02		1.19E-02	1.22E+00
78	1	Surface	Uranium-238	pCi/g	5.29E+00	2.22E+03		2.39E-01	2.43E+01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
80	1	Surface	Americium-241	pCi/g	6.40E+00	2.69E+03		2.89E-01	2.95E+01
80	1	Surface	Antimony	mg/kg	9.10E-01	9.97E-07	6.98E-07	1.07E-10	
80	1	Surface	Beryllium	mg/kg	7.80E-01	8.55E-07	8.38E-08	9.19E-11	
80	1	Surface	Chromium	mg/kg	1.65E+02	1.81E-04	1.27E-04	1.94E-08	
80	1	Surface	Mercury	mg/kg	4.50E-01	4.93E-07	3.45E-07	1.59E-06	
80	1	Surface	Neptunium-237	pCi/g	5.05E-01	2.12E+02		2.28E-02	2.32E+00
80	1	Surface	PCB, Total	mg/kg	1.46E+01	1.60E-05	3.14E-05	2.92E-06	
80	1	Surface	Thorium-230	pCi/g	4.40E+00	1.85E+03		1.99E-01	2.03E+01
80	1	Surface	Total PAH	mg/kg	1.42E-01	1.55E-07	2.83E-07	1.24E-09	
80	1	Surface	Uranium	mg/kg	5.72E+03	6.27E-03	4.39E-03	6.74E-07	
80	1	Surface	Uranium-234	pCi/g	2.29E+02	9.62E+04		1.03E+01	1.05E+03
80	1	Surface	Uranium-235	pCi/g	3.00E+01	1.26E+04		1.35E+00	1.38E+02
80	1	Surface	Uranium-238	pCi/g	1.92E+03	8.07E+05		8.67E+01	8.84E+03
81	1	Surface	Aluminum	mg/kg	9.57E+03	1.05E-02	7.34E-03	1.13E-06	
81	1	Surface	Arsenic	mg/kg	1.03E+01	1.12E-05	4.72E-06	1.21E-09	
81	1	Surface	Beryllium	mg/kg	7.57E-01	8.30E-07	8.13E-08	8.92E-11	
81	1	Surface	Chromium	mg/kg	8.62E+01	9.45E-05	6.61E-05	1.02E-08	
81	1	Surface	Mercury	mg/kg	8.33E+00	9.13E-06	6.39E-06	2.94E-05	
81	1	Surface	Nickel	mg/kg	7.29E+01	7.99E-05	4.47E-05	8.58E-09	
81	1	Surface	PCB, Total	mg/kg	1.60E+02	1.75E-04	3.43E-04	3.20E-05	
81	1	Surface	Silver	mg/kg	2.70E+00	2.96E-06	1.66E-06	3.18E-10	
81	1	Surface	Total PAH	mg/kg	5.53E-01	6.06E-07	1.10E-06	4.84E-09	
81	1	Surface	Uranium	mg/kg	6.50E+03	7.12E-03	4.99E-03	7.66E-07	
81	1	Surface	Uranium-238	pCi/g	2.29E+00	9.60E+02		1.03E-01	1.05E+01
99	1	Surface	Chromium	mg/kg	5.51E+01	6.04E-05	4.23E-05	6.49E-09	
99	1	Surface	Cobalt-60	pCi/g	1.19E-02	5.00E+00		5.37E-04	5.48E-02
99	1	Surface	Mercury	mg/kg	9.53E+00	1.04E-05	7.31E-06	3.37E-05	
99	1	Surface	Nickel	mg/kg	7.02E+01	7.69E-05	4.31E-05	8.27E-09	
99	1	Surface	Silver	mg/kg	1.03E+01	1.13E-05	6.32E-06	1.21E-09	
99	1	Surface	Uranium-238	pCi/g	9.45E-01	3.97E+02		4.27E-02	4.35E+00
138	1	Surface	Antimony	mg/kg	5.39E+00	5.91E-06	4.14E-06	6.35E-10	
138	1	Surface	Arsenic	mg/kg	1.06E+01	1.16E-05	4.89E-06	1.25E-09	
138	1	Surface	Cadmium	mg/kg	5.42E+00	5.94E-06	8.32E-08	6.38E-10	
138	1	Surface	Chromium	mg/kg	5.39E+01	5.90E-05	4.13E-05	6.34E-09	
138	1	Surface	Mercury	mg/kg	1.30E+01	1.42E-05	9.96E-06	4.59E-05	
138	1	Surface	Nickel	mg/kg	7.04E+01	7.71E-05	4.32E-05	8.29E-09	
138	1	Surface	PCB, Total	mg/kg	5.00E-01	5.48E-07	1.07E-06	1.00E-07	
138	1	Surface	Silver	mg/kg	1.01E+01	1.11E-05	6.19E-06	1.19E-09	
138	1	Surface	Total PAH	mg/kg	9.74E-02	1.07E-07	1.94E-07	8.52E-10	
138	2	Surface	Nickel	mg/kg	7.99E+01	8.75E-05	4.90E-05	9.41E-09	
138	2	Surface	PCB, Total	mg/kg	9.20E-02	1.01E-07	1.98E-07	1.84E-08	
138	2	Surface	Silver	mg/kg	1.04E+01	1.14E-05	6.41E-06	1.23E-09	
138	2	Surface	Total PAH	mg/kg	3.84E-02	4.21E-08	7.66E-08	3.36E-10	
153	1	Surface	PCB, Total	mg/kg	5.09E-01	5.58E-07	1.09E-06	1.02E-07	
153	1	Surface	Total PAH	mg/kg	8.69E-02	9.52E-08	1.73E-07	7.60E-10	
154	1	Surface	Arsenic	mg/kg	1.52E+01	1.66E-05	6.98E-06	1.79E-09	
154	1	Surface	Chromium	mg/kg	4.28E+01	4.69E-05	3.28E-05	5.04E-09	
154	1	Surface	Nickel	mg/kg	9.89E+01	1.08E-04	6.07E-05	1.16E-08	
154	1	Surface	PCB, Total	mg/kg	3.20E+00	3.51E-06	6.87E-06	6.40E-07	
154	1	Surface	Total PAH	mg/kg	1.04E+00	1.14E-06	2.08E-06	9.10E-09	
154	1	Surface	Uranium	mg/kg	3.82E+01	4.18E-05	2.93E-05	4.50E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
154	1	Surface	Uranium-238	pCi/g	3.06E+00	1.29E+03		1.38E-01	1.41E+01
154	2	Surface	PCB, Total	mg/kg	4.00E-01	4.38E-07	8.59E-07	8.00E-08	
155	1	Surface	Antimony	mg/kg	3.65E+00	4.00E-06	2.80E-06	4.30E-10	
155	1	Surface	Chromium	mg/kg	3.47E+01	3.80E-05	2.66E-05	4.09E-09	
155	1	Surface	Neptunium-237	pCi/g	1.03E-01	4.33E+01		4.65E-03	4.74E-01
155	1	Surface	Nickel	mg/kg	7.65E+01	8.39E-05	4.70E-05	9.01E-09	
155	1	Surface	PCB, Total	mg/kg	9.20E+00	1.01E-05	1.98E-05	1.84E-06	
155	1	Surface	Silver	mg/kg	1.11E+01	1.21E-05	6.80E-06	1.31E-09	
156	1	Surface	Chromium	mg/kg	4.90E+01	5.37E-05	3.76E-05	5.78E-09	
156	1	Surface	Manganese	mg/kg	2.83E+03	3.10E-03	1.74E-03	3.34E-07	
156	1	Surface	Mercury	mg/kg	9.87E+00	1.08E-05	7.57E-06	3.49E-05	
156	1	Surface	Nickel	mg/kg	6.16E+01	6.75E-05	3.78E-05	7.26E-09	
156	1	Surface	PCB, Total	mg/kg	3.00E-01	3.29E-07	6.44E-07	6.00E-08	
156	1	Surface	Total PAH	mg/kg	8.26E-02	9.05E-08	1.65E-07	7.22E-10	
156	1	Surface	Uranium	mg/kg	2.32E+01	2.54E-05	1.78E-05	2.73E-09	
156	1	Surface	Uranium-238	pCi/g	2.19E+00	9.20E+02		9.89E-02	1.01E+01
158	1	Surface	Antimony	mg/kg	5.23E-01	5.73E-07	4.01E-07	6.16E-11	
158	1	Surface	Arsenic	mg/kg	1.01E+01	1.11E-05	4.66E-06	1.19E-09	
158	1	Surface	Barium	mg/kg	2.19E+02	2.40E-04	1.68E-04	2.58E-08	
158	1	Surface	Chromium	mg/kg	6.07E+01	6.66E-05	4.66E-05	7.15E-09	
158	1	Surface	Cobalt	mg/kg	1.62E+01	1.78E-05	1.24E-05	1.91E-09	
158	1	Surface	Manganese	mg/kg	9.91E+02	1.09E-03	6.08E-04	1.17E-07	
158	1	Surface	Mercury	mg/kg	1.05E+01	1.15E-05	8.02E-06	3.70E-05	
158	1	Surface	Nickel	mg/kg	7.28E+01	7.98E-05	4.47E-05	8.58E-09	
158	1	Surface	Thallium	mg/kg	3.12E-01	3.42E-07	2.39E-07	3.68E-11	
158	1	Surface	Total PAH	mg/kg	3.69E-01	4.04E-07	7.36E-07	3.23E-09	
158	1	Surface	Uranium	mg/kg	2.03E+01	2.22E-05	1.56E-05	2.39E-09	
158	1	Surface	Uranium-235	pCi/g	1.63E-01	6.85E+01		7.36E-03	7.50E-01
158	1	Surface	Uranium-238	pCi/g	3.79E+00	1.59E+03		1.71E-01	1.74E+01
160	1	Surface	Antimony	mg/kg	6.80E-01	7.45E-07	5.22E-07	8.01E-11	
160	1	Surface	Total PAH	mg/kg	5.29E-02	5.80E-08	1.06E-07	4.63E-10	
163	1	Surface	Chromium	mg/kg	4.94E+01	5.42E-05	3.79E-05	5.82E-09	
163	1	Surface	Total PAH	mg/kg	1.63E-01	1.79E-07	3.25E-07	1.43E-09	
165	1	Surface	Antimony	mg/kg	2.20E+00	2.41E-06	1.69E-06	2.59E-10	
165	1	Surface	Arsenic	mg/kg	6.35E+01	6.96E-05	2.92E-05	7.48E-09	
165	1	Surface	Barium	mg/kg	5.84E+02	6.40E-04	4.48E-04	6.88E-08	
165	1	Surface	Beryllium	mg/kg	6.82E-01	7.47E-07	7.32E-08	8.03E-11	
165	1	Surface	Cesium-137	pCi/g	3.47E+00	1.46E+03		1.57E-01	1.60E+01
165	1	Surface	Chromium	mg/kg	3.74E+01	4.10E-05	2.87E-05	4.40E-09	
165	1	Surface	Mercury	mg/kg	3.78E-01	4.14E-07	2.90E-07	1.34E-06	
165	1	Surface	Naphthalene	mg/kg	1.61E+00	1.77E-06	6.18E-06	6.37E-06	
165	1	Surface	Neptunium-237	pCi/g	4.26E-01	1.79E+02		1.92E-02	1.96E+00
165	1	Surface	Nickel	mg/kg	3.47E+01	3.80E-05	2.13E-05	4.09E-09	
165	1	Surface	PCB, Total	mg/kg	8.27E+00	9.06E-06	1.78E-05	1.65E-06	
165	1	Surface	Plutonium-239/240	pCi/g	2.81E+00	1.18E+03		1.27E-01	1.29E+01
165	1	Surface	Silver	mg/kg	3.09E+01	3.39E-05	1.90E-05	3.64E-09	
165	1	Surface	Thorium-230	pCi/g	6.02E+00	2.53E+03		2.72E-01	2.77E+01
165	1	Surface	Total PAH	mg/kg	1.87E+00	2.05E-06	3.73E-06	1.63E-08	
165	1	Surface	Uranium	mg/kg	1.08E+02	1.18E-04	8.25E-05	1.27E-08	
165	1	Surface	Uranium-234	pCi/g	5.76E+01	2.42E+04		2.60E+00	2.65E+02
165	1	Surface	Uranium-235	pCi/g	2.05E+00	8.59E+02		9.23E-02	9.41E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
165	1	Surface	Uranium-238	pCi/g	6.41E+01	2.69E+04		2.89E+00	2.95E+02
169	1	Surface	Aluminum	mg/kg	1.42E+04	1.56E-02	1.09E-02	1.67E-06	
169	1	Surface	Antimony	mg/kg	1.30E+00	1.42E-06	9.97E-07	1.53E-10	
169	1	Surface	Arsenic	mg/kg	2.03E+01	2.22E-05	9.34E-06	2.39E-09	
169	1	Surface	Beryllium	mg/kg	8.00E-01	8.77E-07	8.59E-08	9.42E-11	
169	1	Surface	Chromium	mg/kg	2.15E+02	2.36E-04	1.65E-04	2.53E-08	
169	1	Surface	Copper	mg/kg	3.74E+02	4.10E-04	2.87E-04	4.41E-08	
169	1	Surface	Iron	mg/kg	4.16E+04	4.55E-02	3.19E-02	4.90E-06	
169	1	Surface	Mercury	mg/kg	7.87E+00	8.62E-06	6.04E-06	2.78E-05	
169	1	Surface	Nickel	mg/kg	5.49E+02	6.01E-04	3.37E-04	6.46E-08	
169	1	Surface	PCB, Total	mg/kg	1.00E+01	1.10E-05	2.15E-05	2.00E-06	
169	1	Surface	Thallium	mg/kg	4.60E-01	5.04E-07	3.53E-07	5.42E-11	
169	1	Surface	Total PAH	mg/kg	4.59E+00	5.03E-06	9.15E-06	4.01E-08	
169	1	Surface	Uranium	mg/kg	5.03E+01	5.51E-05	3.86E-05	5.93E-09	
169	1	Surface	Uranium-234	pCi/g	6.55E+00	2.75E+03		2.96E-01	3.01E+01
169	1	Surface	Uranium-235	pCi/g	4.60E-01	1.93E+02		2.08E-02	2.12E+00
169	1	Surface	Uranium-238	pCi/g	8.12E+00	3.41E+03		3.67E-01	3.74E+01
170	1	Surface	Neptunium-237	pCi/g	1.15E-01	4.83E+01		5.19E-03	5.29E-01
170	1	Surface	Uranium-238	pCi/g	1.53E+00	6.43E+02		6.91E-02	7.04E+00
176	1	Surface	Arsenic	mg/kg	4.86E+01	5.32E-05	2.23E-05	5.72E-09	
176	1	Surface	Chromium	mg/kg	4.27E+01	4.68E-05	3.28E-05	5.03E-09	
176	1	Surface	Nickel	mg/kg	1.07E+02	1.17E-04	6.58E-05	1.26E-08	
176	1	Surface	Uranium	mg/kg	2.21E+01	2.42E-05	1.69E-05	2.60E-09	
180	1	Surface	Antimony	mg/kg	5.80E-01	6.36E-07	4.45E-07	6.83E-11	
180	1	Surface	Arsenic	mg/kg	7.48E+01	8.20E-05	3.44E-05	8.81E-09	
180	1	Surface	Chromium	mg/kg	5.54E+01	6.08E-05	4.25E-05	6.53E-09	
180	1	Surface	Mercury	mg/kg	8.28E+00	9.07E-06	6.35E-06	2.93E-05	
180	1	Surface	Nickel	mg/kg	8.77E+01	9.61E-05	5.38E-05	1.03E-08	
180	2	Surface	Antimony	mg/kg	4.58E-01	5.02E-07	3.51E-07	5.39E-11	
180	2	Surface	Arsenic	mg/kg	1.27E+01	1.39E-05	5.82E-06	1.49E-09	
180	2	Surface	Chromium	mg/kg	4.46E+01	4.89E-05	3.42E-05	5.26E-09	
180	2	Surface	Nickel	mg/kg	8.42E+01	9.22E-05	5.16E-05	9.91E-09	
180	2	Surface	Total PAH	mg/kg	9.19E-02	1.01E-07	1.83E-07	8.03E-10	
180	3	Surface	Arsenic	mg/kg	1.34E+01	1.46E-05	6.14E-06	1.57E-09	
180	3	Surface	Chromium	mg/kg	4.69E+01	5.14E-05	3.60E-05	5.53E-09	
180	3	Surface	Nickel	mg/kg	6.77E+01	7.42E-05	4.16E-05	7.98E-09	
180	3	Surface	Silver	mg/kg	1.14E+01	1.25E-05	7.00E-06	1.34E-09	
180	4	Surface	Arsenic	mg/kg	1.15E+01	1.26E-05	5.31E-06	1.36E-09	
180	4	Surface	Barium	mg/kg	2.13E+02	2.33E-04	1.63E-04	2.51E-08	
180	4	Surface	Beryllium	mg/kg	1.60E+00	1.75E-06	1.72E-07	1.88E-10	
180	4	Surface	Chromium	mg/kg	6.00E+01	6.58E-05	4.60E-05	7.07E-09	
180	4	Surface	Iron	mg/kg	1.54E+04	1.68E-02	1.18E-02	1.81E-06	
180	4	Surface	Manganese	mg/kg	7.09E+02	7.77E-04	4.35E-04	8.35E-08	
180	4	Surface	Nickel	mg/kg	6.46E+01	7.08E-05	3.97E-05	7.61E-09	
180	4	Surface	Silver	mg/kg	9.68E+00	1.06E-05	5.94E-06	1.14E-09	
180	4	Surface	Total PAH	mg/kg	2.15E-02	2.36E-08	4.29E-08	1.88E-10	
180	4	Surface	Vanadium	mg/kg	4.85E+01	5.32E-05	1.93E-05	5.71E-09	
181	1	Surface	Chromium	mg/kg	2.29E+01	2.50E-05	1.75E-05	2.69E-09	
181	1	Surface	Thallium	mg/kg	3.50E+00	3.84E-06	2.68E-06	4.12E-10	
181	1	Surface	Total PAH	mg/kg	3.43E-02	3.76E-08	6.84E-08	3.00E-10	
194	1	Surface	Antimony	mg/kg	1.50E+00	1.64E-06	1.15E-06	1.77E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	1	Surface	Chromium	mg/kg	3.87E+01	4.24E-05	2.97E-05	4.56E-09	
194	1	Surface	Mercury	mg/kg	6.71E+00	7.35E-06	5.15E-06	2.37E-05	
194	1	Surface	Nickel	mg/kg	5.84E+01	6.40E-05	3.59E-05	6.88E-09	
194	1	Surface	Silver	mg/kg	1.09E+01	1.20E-05	6.71E-06	1.29E-09	
194	2	Surface	Chromium	mg/kg	5.96E+01	6.53E-05	4.57E-05	7.02E-09	
194	2	Surface	Silver	mg/kg	1.31E+01	1.44E-05	8.06E-06	1.55E-09	
194	2	Surface	Uranium	mg/kg	2.28E+01	2.50E-05	1.75E-05	2.68E-09	
194	2	Surface	Uranium-238	pCi/g	1.42E+00	5.96E+02		6.41E-02	6.54E+00
194	3	Surface	Antimony	mg/kg	6.90E-01	7.56E-07	5.29E-07	8.13E-11	
194	3	Surface	Arsenic	mg/kg	1.46E+01	1.60E-05	6.74E-06	1.72E-09	
194	3	Surface	Chromium	mg/kg	3.90E+01	4.27E-05	2.99E-05	4.59E-09	
194	3	Surface	Nickel	mg/kg	6.40E+01	7.02E-05	3.93E-05	7.54E-09	
194	3	Surface	Total PAH	mg/kg	3.93E-02	4.31E-08	7.84E-08	3.44E-10	
194	3	Surface	Uranium-238	pCi/g	1.28E+00	5.39E+02		5.80E-02	5.91E+00
194	4	Surface	Chromium	mg/kg	4.84E+01	5.31E-05	3.71E-05	5.70E-09	
194	4	Surface	Mercury	mg/kg	8.92E+00	9.78E-06	6.84E-06	3.15E-05	
194	4	Surface	Nickel	mg/kg	6.91E+01	7.57E-05	4.24E-05	8.13E-09	
194	4	Surface	Silver	mg/kg	1.18E+01	1.29E-05	7.23E-06	1.39E-09	
194	4	Surface	Total PAH	mg/kg	7.30E-02	8.00E-08	1.46E-07	6.38E-10	
194	4	Surface	Uranium-238	pCi/g	1.73E+00	7.27E+02		7.81E-02	7.96E+00
194	5	Surface	Chromium	mg/kg	4.58E+01	5.02E-05	3.51E-05	5.39E-09	
194	5	Surface	Mercury	mg/kg	8.69E+00	9.52E-06	6.67E-06	3.07E-05	
194	5	Surface	Nickel	mg/kg	7.54E+01	8.27E-05	4.63E-05	8.89E-09	
194	5	Surface	Silver	mg/kg	1.25E+01	1.36E-05	7.64E-06	1.47E-09	
194	5	Surface	Total PAH	mg/kg	2.37E-02	2.60E-08	4.73E-08	2.07E-10	
194	5	Surface	Uranium-238	pCi/g	1.38E+00	5.80E+02		6.23E-02	6.35E+00
194	6	Surface	Chromium	mg/kg	3.70E+01	4.06E-05	2.84E-05	4.36E-09	
194	6	Surface	Manganese	mg/kg	1.08E+03	1.18E-03	6.63E-04	1.27E-07	
194	6	Surface	Nickel	mg/kg	8.06E+01	8.83E-05	4.95E-05	9.49E-09	
194	6	Surface	Silver	mg/kg	9.89E+00	1.08E-05	6.07E-06	1.16E-09	
194	6	Surface	Uranium-238	pCi/g	1.32E+00	5.54E+02		5.96E-02	6.08E+00
194	7	Surface	Chromium	mg/kg	5.32E+01	5.83E-05	4.08E-05	6.27E-09	
194	7	Surface	Nickel	mg/kg	7.71E+01	8.45E-05	4.73E-05	9.09E-09	
194	7	Surface	Silver	mg/kg	1.25E+01	1.37E-05	7.67E-06	1.47E-09	
194	8	Surface	Chromium	mg/kg	5.36E+01	5.87E-05	4.11E-05	6.31E-09	
194	8	Surface	Manganese	mg/kg	8.00E+02	8.77E-04	4.91E-04	9.42E-08	
194	8	Surface	Total PAH	mg/kg	4.85E-01	5.32E-07	9.67E-07	4.24E-09	
194	8	Surface	Uranium-238	pCi/g	1.39E+00	5.84E+02		6.27E-02	6.40E+00
194	9	Surface	Arsenic	mg/kg	1.14E+01	1.25E-05	5.26E-06	1.35E-09	
194	9	Surface	Chromium	mg/kg	5.17E+01	5.66E-05	3.96E-05	6.08E-09	
194	10	Surface	Arsenic	mg/kg	1.22E+01	1.33E-05	5.60E-06	1.43E-09	
194	10	Surface	Cesium-137	pCi/g	5.81E-01	2.44E+02		2.62E-02	2.67E+00
194	10	Surface	Chromium	mg/kg	3.63E+01	3.98E-05	2.78E-05	4.27E-09	
194	10	Surface	Nickel	mg/kg	7.60E+01	8.33E-05	4.66E-05	8.95E-09	
194	10	Surface	Total PAH	mg/kg	2.57E-01	2.82E-07	5.13E-07	2.25E-09	
194	10	Surface	Uranium-238	pCi/g	1.49E+00	6.26E+02		6.73E-02	6.86E+00
194	11	Surface	Chromium	mg/kg	3.27E+01	3.58E-05	2.51E-05	3.85E-09	
194	11	Surface	Mercury	mg/kg	8.09E+00	8.87E-06	6.21E-06	2.86E-05	
194	11	Surface	Nickel	mg/kg	1.01E+02	1.10E-04	6.18E-05	1.19E-08	
194	11	Surface	PCB, Total	mg/kg	8.40E-02	9.21E-08	1.80E-07	1.68E-08	
194	11	Surface	Silver	mg/kg	1.33E+01	1.46E-05	8.16E-06	1.57E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	11	Surface	Total PAH	mg/kg	7.95E-02	8.72E-08	1.59E-07	6.95E-10	
194	12	Surface	Chromium	mg/kg	6.34E+01	6.94E-05	4.86E-05	7.46E-09	
194	12	Surface	Nickel	mg/kg	7.86E+01	8.61E-05	4.82E-05	9.26E-09	
194	12	Surface	Silver	mg/kg	1.20E+01	1.31E-05	7.35E-06	1.41E-09	
194	12	Surface	Total PAH	mg/kg	8.91E-01	9.77E-07	1.78E-06	7.79E-09	
194	13	Surface	Chromium	mg/kg	4.77E+01	5.22E-05	3.66E-05	5.61E-09	
194	13	Surface	Nickel	mg/kg	6.03E+01	6.61E-05	3.70E-05	7.10E-09	
194	13	Surface	Total PAH	mg/kg	9.13E-02	1.00E-07	1.82E-07	7.99E-10	
194	14	Surface	Chromium	mg/kg	5.21E+01	5.71E-05	4.00E-05	6.14E-09	
194	14	Surface	Mercury	mg/kg	8.14E+00	8.92E-06	6.24E-06	2.88E-05	
194	15	Surface	Chromium	mg/kg	5.33E+01	5.84E-05	4.09E-05	6.28E-09	
194	15	Surface	Silver	mg/kg	1.03E+01	1.13E-05	6.33E-06	1.21E-09	
194	16	Surface	Antimony	mg/kg	7.40E-01	8.11E-07	5.68E-07	8.72E-11	
194	16	Surface	Arsenic	mg/kg	1.15E+01	1.26E-05	5.30E-06	1.36E-09	
194	16	Surface	Beryllium	mg/kg	8.70E-01	9.53E-07	9.34E-08	1.02E-10	
194	16	Surface	Chromium	mg/kg	5.32E+01	5.83E-05	4.08E-05	6.27E-09	
194	16	Surface	Nickel	mg/kg	7.20E+01	7.89E-05	4.42E-05	8.48E-09	
194	16	Surface	Thallium	mg/kg	6.30E-01	6.90E-07	4.83E-07	7.42E-11	
194	16	Surface	Vanadium	mg/kg	4.11E+01	4.50E-05	1.64E-05	4.84E-09	
194	17	Surface	Arsenic	mg/kg	1.16E+01	1.27E-05	5.32E-06	1.36E-09	
194	17	Surface	Cadmium	mg/kg	1.10E+00	1.21E-06	1.69E-08	1.30E-10	
194	17	Surface	Chromium	mg/kg	4.65E+01	5.09E-05	3.57E-05	5.47E-09	
194	17	Surface	Total PAH	mg/kg	1.59E-01	1.74E-07	3.16E-07	1.39E-09	
194	18	Surface	Arsenic	mg/kg	1.06E+01	1.16E-05	4.87E-06	1.25E-09	
194	18	Surface	Beryllium	mg/kg	7.40E-01	8.11E-07	7.95E-08	8.72E-11	
194	18	Surface	Chromium	mg/kg	6.85E+01	7.50E-05	5.25E-05	8.07E-09	
194	18	Surface	Nickel	mg/kg	5.78E+01	6.33E-05	3.55E-05	6.81E-09	
194	19	Surface	Arsenic	mg/kg	1.07E+01	1.17E-05	4.92E-06	1.26E-09	
194	19	Surface	Chromium	mg/kg	4.84E+01	5.30E-05	3.71E-05	5.70E-09	
194	19	Surface	Nickel	mg/kg	5.84E+01	6.40E-05	3.58E-05	6.88E-09	
194	20	Surface	Arsenic	mg/kg	1.18E+01	1.30E-05	5.45E-06	1.39E-09	
194	20	Surface	Barium	mg/kg	3.26E+02	3.57E-04	2.50E-04	3.84E-08	
194	20	Surface	Beryllium	mg/kg	1.10E+00	1.21E-06	1.18E-07	1.30E-10	
194	20	Surface	Chromium	mg/kg	5.24E+01	5.74E-05	4.02E-05	6.17E-09	
194	20	Surface	Cobalt	mg/kg	2.11E+01	2.31E-05	1.62E-05	2.49E-09	
194	20	Surface	Manganese	mg/kg	2.29E+03	2.51E-03	1.41E-03	2.70E-07	
194	20	Surface	Mercury	mg/kg	7.28E+00	7.98E-06	5.58E-06	2.57E-05	
194	20	Surface	Nickel	mg/kg	6.57E+01	7.20E-05	4.03E-05	7.74E-09	
194	20	Surface	Silver	mg/kg	1.22E+01	1.34E-05	7.50E-06	1.44E-09	
194	20	Surface	Total PAH	mg/kg	3.10E-02	3.40E-08	6.18E-08	2.71E-10	
194	20	Surface	Vanadium	mg/kg	3.81E+01	4.18E-05	1.52E-05	4.49E-09	
194	21	Surface	Antimony	mg/kg	9.30E-01	1.02E-06	7.13E-07	1.10E-10	
194	21	Surface	Chromium	mg/kg	5.51E+01	6.04E-05	4.23E-05	6.49E-09	
194	21	Surface	Mercury	mg/kg	6.62E+00	7.25E-06	5.08E-06	2.34E-05	
194	21	Surface	Nickel	mg/kg	7.01E+01	7.68E-05	4.30E-05	8.26E-09	
194	21	Surface	Thallium	mg/kg	6.40E-01	7.01E-07	4.91E-07	7.54E-11	
194	22	Surface	Chromium	mg/kg	4.90E+01	5.37E-05	3.76E-05	5.77E-09	
194	22	Surface	Manganese	mg/kg	8.19E+02	8.98E-04	5.03E-04	9.65E-08	
194	22	Surface	PCB, Total	mg/kg	1.09E+01	1.20E-05	2.35E-05	2.18E-06	
194	23	Surface	Arsenic	mg/kg	1.16E+01	1.27E-05	5.32E-06	1.36E-09	
194	23	Surface	Chromium	mg/kg	6.60E+01	7.23E-05	5.06E-05	7.77E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	23	Surface	Iron	mg/kg	1.83E+04	2.00E-02	1.40E-02	2.15E-06	
194	23	Surface	Nickel	mg/kg	8.77E+01	9.61E-05	5.38E-05	1.03E-08	
194	23	Surface	Silver	mg/kg	1.15E+01	1.26E-05	7.05E-06	1.35E-09	
194	24	Surface	Chromium	mg/kg	5.02E+01	5.50E-05	3.85E-05	5.91E-09	
194	24	Surface	Nickel	mg/kg	7.08E+01	7.76E-05	4.34E-05	8.34E-09	
194	24	Surface	Total PAH	mg/kg	2.28E-02	2.50E-08	4.55E-08	1.99E-10	
194	25	Surface	Barium	mg/kg	3.00E+02	3.29E-04	2.30E-04	3.53E-08	
194	25	Surface	Chromium	mg/kg	6.13E+01	6.71E-05	4.70E-05	7.21E-09	
194	25	Surface	Manganese	mg/kg	9.96E+02	1.09E-03	6.11E-04	1.17E-07	
194	25	Surface	Nickel	mg/kg	6.33E+01	6.94E-05	3.89E-05	7.46E-09	
194	25	Surface	Total PAH	mg/kg	2.06E-02	2.26E-08	4.11E-08	1.80E-10	
194	26	Surface	Beryllium	mg/kg	7.00E-01	7.67E-07	7.52E-08	8.25E-11	
194	26	Surface	Chromium	mg/kg	4.18E+01	4.58E-05	3.21E-05	4.93E-09	
194	26	Surface	Silver	mg/kg	1.03E+01	1.13E-05	6.30E-06	1.21E-09	
194	26	Surface	Thallium	mg/kg	3.90E-01	4.27E-07	2.99E-07	4.59E-11	
194	27	Surface	Chromium	mg/kg	5.22E+01	5.72E-05	4.00E-05	6.15E-09	
194	27	Surface	Nickel	mg/kg	6.55E+01	7.18E-05	4.02E-05	7.72E-09	
194	27	Surface	Silver	mg/kg	1.01E+01	1.11E-05	6.21E-06	1.19E-09	
194	28	Surface	Arsenic	mg/kg	1.20E+01	1.32E-05	5.54E-06	1.42E-09	
194	28	Surface	Beryllium	mg/kg	7.10E-01	7.78E-07	7.63E-08	8.36E-11	
194	28	Surface	Chromium	mg/kg	6.07E+01	6.65E-05	4.66E-05	7.15E-09	
194	28	Surface	Manganese	mg/kg	1.14E+03	1.25E-03	6.98E-04	1.34E-07	
194	28	Surface	Nickel	mg/kg	6.95E+01	7.61E-05	4.26E-05	8.18E-09	
194	28	Surface	Silver	mg/kg	1.08E+01	1.18E-05	6.62E-06	1.27E-09	
194	28	Surface	Vanadium	mg/kg	4.06E+01	4.45E-05	1.62E-05	4.78E-09	
194	29	Surface	Antimony	mg/kg	7.10E-01	7.78E-07	5.45E-07	8.36E-11	
194	29	Surface	Chromium	mg/kg	5.06E+01	5.54E-05	3.88E-05	5.96E-09	
194	29	Surface	Nickel	mg/kg	6.51E+01	7.13E-05	4.00E-05	7.67E-09	
194	29	Surface	Silver	mg/kg	9.77E+00	1.07E-05	6.00E-06	1.15E-09	
194	30	Surface	Chromium	mg/kg	5.66E+01	6.20E-05	4.34E-05	6.66E-09	
194	30	Surface	Mercury	mg/kg	8.80E+00	9.64E-06	6.75E-06	3.11E-05	
194	30	Surface	Nickel	mg/kg	6.99E+01	7.66E-05	4.29E-05	8.23E-09	
194	30	Surface	Silver	mg/kg	9.76E+00	1.07E-05	5.99E-06	1.15E-09	
194	31	Surface	Cesium-137	pCi/g	5.70E-01	2.39E+02		2.57E-02	2.62E+00
194	31	Surface	Uranium-238	pCi/g	1.72E+00	7.22E+02		7.76E-02	7.92E+00
195	1	Surface	Chromium	mg/kg	6.33E+01	6.93E-05	4.85E-05	7.45E-09	
195	1	Surface	Nickel	mg/kg	7.02E+01	7.69E-05	4.31E-05	8.27E-09	
195	1	Surface	Silver	mg/kg	9.37E+00	1.03E-05	5.75E-06	1.10E-09	
195	2	Surface	Chromium	mg/kg	4.52E+01	4.95E-05	3.47E-05	5.32E-09	
195	2	Surface	Silver	mg/kg	9.48E+00	1.04E-05	5.82E-06	1.12E-09	
195	2	Surface	Total PAH	mg/kg	2.68E-02	2.94E-08	5.35E-08	2.34E-10	
195	3	Surface	Chromium	mg/kg	5.03E+01	5.51E-05	3.86E-05	5.92E-09	
195	3	Surface	Nickel	mg/kg	5.22E+01	5.72E-05	3.20E-05	6.14E-09	
195	3	Surface	Total PAH	mg/kg	4.06E-02	4.45E-08	8.10E-08	3.55E-10	
195	4	Surface	Chromium	mg/kg	5.29E+01	5.80E-05	4.06E-05	6.23E-09	
195	4	Surface	Nickel	mg/kg	6.23E+01	6.83E-05	3.82E-05	7.34E-09	
195	5	Surface	Chromium	mg/kg	5.74E+01	6.29E-05	4.40E-05	6.76E-09	
195	5	Surface	Nickel	mg/kg	8.11E+01	8.89E-05	4.98E-05	9.55E-09	
195	5	Surface	Total PAH	mg/kg	2.40E-02	2.63E-08	4.79E-08	2.10E-10	
195	6	Surface	Chromium	mg/kg	4.45E+01	4.88E-05	3.42E-05	5.25E-09	
195	6	Surface	Nickel	mg/kg	8.71E+01	9.55E-05	5.35E-05	1.03E-08	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
195	6	Surface	Total PAH	mg/kg	2.48E-01	2.71E-07	4.94E-07	2.17E-09	
195	7	Surface	Chromium	mg/kg	4.93E+01	5.40E-05	3.78E-05	5.80E-09	
195	7	Surface	Silver	mg/kg	8.06E+00	8.83E-06	4.95E-06	9.49E-10	
195	8	Surface	Arsenic	mg/kg	1.16E+01	1.27E-05	5.32E-06	1.36E-09	
195	8	Surface	Beryllium	mg/kg	7.40E-01	8.11E-07	7.95E-08	8.72E-11	
195	8	Surface	Chromium	mg/kg	6.79E+01	7.44E-05	5.21E-05	8.00E-09	
195	8	Surface	Cobalt	mg/kg	1.82E+01	1.99E-05	1.40E-05	2.14E-09	
195	8	Surface	Nickel	mg/kg	7.01E+01	7.68E-05	4.30E-05	8.26E-09	
195	8	Surface	Total PAH	mg/kg	2.16E-01	2.36E-07	4.30E-07	1.88E-09	
195	8	Surface	Vanadium	mg/kg	4.04E+01	4.43E-05	1.61E-05	4.76E-09	
195	9	Surface	Chromium	mg/kg	6.08E+01	6.66E-05	4.66E-05	7.16E-09	
195	9	Surface	Nickel	mg/kg	7.93E+01	8.69E-05	4.86E-05	9.34E-09	
195	10	Surface	Chromium	mg/kg	4.51E+01	4.94E-05	3.46E-05	5.31E-09	
195	10	Surface	Nickel	mg/kg	7.40E+01	8.11E-05	4.54E-05	8.72E-09	
195	10	Surface	Silver	mg/kg	1.31E+01	1.44E-05	8.05E-06	1.54E-09	
195	11	Surface	Aluminum	mg/kg	2.81E+04	3.08E-02	2.16E-02	3.31E-06	
195	11	Surface	Arsenic	mg/kg	1.35E+01	1.48E-05	6.20E-06	1.59E-09	
195	11	Surface	Barium	mg/kg	4.53E+02	4.96E-04	3.48E-04	5.34E-08	
195	11	Surface	Chromium	mg/kg	5.05E+01	5.53E-05	3.87E-05	5.95E-09	
195	11	Surface	Cobalt	mg/kg	2.77E+01	3.04E-05	2.12E-05	3.26E-09	
195	11	Surface	Iron	mg/kg	1.97E+04	2.16E-02	1.51E-02	2.32E-06	
195	11	Surface	Nickel	mg/kg	6.77E+01	7.42E-05	4.15E-05	7.97E-09	
195	11	Surface	Thallium	mg/kg	6.60E-01	7.23E-07	5.06E-07	7.77E-11	
195	11	Surface	Vanadium	mg/kg	7.97E+01	8.73E-05	3.18E-05	9.39E-09	
195	12	Surface	Beryllium	mg/kg	7.50E-01	8.22E-07	8.05E-08	8.83E-11	
195	12	Surface	Chromium	mg/kg	7.04E+01	7.71E-05	5.40E-05	8.29E-09	
195	12	Surface	Nickel	mg/kg	6.78E+01	7.42E-05	4.16E-05	7.98E-09	
195	13	Surface	Chromium	mg/kg	6.55E+01	7.18E-05	5.03E-05	7.72E-09	
195	13	Surface	Nickel	mg/kg	6.91E+01	7.57E-05	4.24E-05	8.14E-09	
195	14	Surface	Chromium	mg/kg	5.94E+01	6.51E-05	4.56E-05	7.00E-09	
195	14	Surface	Nickel	mg/kg	7.04E+01	7.71E-05	4.32E-05	8.29E-09	
195	15	Surface	Chromium	mg/kg	4.82E+01	5.28E-05	3.70E-05	5.67E-09	
195	16	Surface	Chromium	mg/kg	4.45E+01	4.87E-05	3.41E-05	5.24E-09	
195	16	Surface	Nickel	mg/kg	8.16E+01	8.94E-05	5.01E-05	9.61E-09	
195	17	Surface	Chromium	mg/kg	8.22E+01	9.00E-05	6.30E-05	9.68E-09	
195	17	Surface	Mercury	mg/kg	4.17E-01	4.57E-07	3.20E-07	1.47E-06	
195	17	Surface	Nickel	mg/kg	5.93E+01	6.50E-05	3.64E-05	6.99E-09	
195	17	Surface	PCB, Total	mg/kg	7.40E-01	8.11E-07	1.59E-06	1.48E-07	
195	17	Surface	Silver	mg/kg	1.01E+01	1.11E-05	6.22E-06	1.19E-09	
195	17	Surface	Thallium	mg/kg	5.40E-01	5.92E-07	4.14E-07	6.36E-11	
195	17	Surface	Total PAH	mg/kg	3.16E-01	3.46E-07	6.30E-07	2.76E-09	
195	17	Surface	Uranium-235	pCi/g	1.32E-01	5.54E+01		5.96E-03	6.08E-01
195	17	Surface	Uranium-238	pCi/g	2.48E+00	1.04E+03		1.12E-01	1.14E+01
196	1	Surface	Antimony	mg/kg	5.90E-01	6.47E-07	4.53E-07	6.95E-11	
196	1	Surface	Chromium	mg/kg	1.96E+01	2.15E-05	1.50E-05	2.31E-09	
196	1	Surface	Neptunium-237	pCi/g	3.11E-01	1.31E+02		1.40E-02	1.43E+00
196	1	Surface	Nickel	mg/kg	5.56E+02	6.09E-04	3.41E-04	6.55E-08	
196	1	Surface	Uranium	mg/kg	2.33E+01	2.55E-05	1.79E-05	2.74E-09	
196	1	Surface	Uranium-238	pCi/g	1.54E+00	6.47E+02		6.95E-02	7.09E+00
196	2	Surface	Barium	mg/kg	2.02E+02	2.21E-04	1.55E-04	2.38E-08	
196	2	Surface	Cadmium	mg/kg	2.53E+00	2.77E-06	3.88E-08	2.98E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
196	2	Surface	Chromium	mg/kg	2.07E+01	2.27E-05	1.59E-05	2.44E-09	
196	2	Surface	Nickel	mg/kg	7.36E+01	8.07E-05	4.52E-05	8.67E-09	
196	2	Surface	PCB, Total	mg/kg	1.51E+00	1.65E-06	3.24E-06	3.02E-07	
196	2	Surface	Total PAH	mg/kg	6.80E-01	7.45E-07	1.36E-06	5.95E-09	
196	2	Surface	Uranium-238	pCi/g	2.21E+00	9.28E+02		9.98E-02	1.02E+01
200	1	Surface	Antimony	mg/kg	5.60E-01	6.14E-07	4.30E-07	6.60E-11	
200	1	Surface	Cesium-137	pCi/g	5.74E-01	2.41E+02		2.59E-02	2.64E+00
200	1	Surface	Chromium	mg/kg	5.75E+01	6.30E-05	4.41E-05	6.78E-09	
200	1	Surface	Mercury	mg/kg	6.71E+00	7.35E-06	5.15E-06	2.37E-05	
200	1	Surface	Nickel	mg/kg	1.28E+02	1.40E-04	7.86E-05	1.51E-08	
200	1	Surface	PCB, Total	mg/kg	2.60E+00	2.85E-06	5.58E-06	5.20E-07	
200	1	Surface	Total PAH	mg/kg	2.84E-02	3.11E-08	5.66E-08	2.48E-10	
200	1	Surface	Uranium	mg/kg	2.73E+01	2.99E-05	2.09E-05	3.22E-09	
200	1	Surface	Uranium-235	pCi/g	1.43E-01	6.01E+01		6.46E-03	6.58E-01
200	1	Surface	Uranium-238	pCi/g	3.58E+00	1.50E+03		1.61E-01	1.65E+01
204	1	Surface	Aluminum	mg/kg	1.48E+04	1.62E-02	1.14E-02	1.74E-06	
204	1	Surface	Beryllium	mg/kg	1.36E+00	1.49E-06	1.46E-07	1.60E-10	
204	1	Surface	Cadmium	mg/kg	2.73E+00	2.99E-06	4.19E-08	3.22E-10	
204	1	Surface	Chromium	mg/kg	7.40E+01	8.11E-05	5.68E-05	8.72E-09	
204	1	Surface	Iron	mg/kg	4.19E+04	4.59E-02	3.21E-02	4.94E-06	
204	1	Surface	PCB, Total	mg/kg	2.53E+00	2.77E-06	5.43E-06	5.06E-07	
204	1	Surface	Uranium-235	pCi/g	1.80E-01	7.56E+01		8.13E-03	8.28E-01
204	1	Surface	Uranium-238	pCi/g	5.20E+00	2.18E+03		2.35E-01	2.39E+01
204	1	Surface	Vanadium	mg/kg	7.55E+01	8.27E-05	3.01E-05	8.89E-09	
204	2	Surface	Aluminum	mg/kg	1.37E+04	1.50E-02	1.05E-02	1.61E-06	
204	2	Surface	Chromium	mg/kg	1.80E+01	1.97E-05	1.38E-05	2.12E-09	
204	2	Surface	PCB, Total	mg/kg	1.70E-01	1.86E-07	3.65E-07	3.40E-08	
204	3	Surface	Chromium	mg/kg	2.06E+01	2.26E-05	1.58E-05	2.43E-09	
204	3	Surface	Uranium-238	pCi/g	2.50E+00	1.05E+03		1.13E-01	1.15E+01
204	4	Surface	Antimony	mg/kg	1.10E+00	1.21E-06	8.44E-07	1.30E-10	
204	4	Surface	Chromium	mg/kg	2.89E+01	3.17E-05	2.22E-05	3.40E-09	
204	4	Surface	Uranium-235	pCi/g	1.88E-01	7.89E+01		8.48E-03	8.64E-01
204	4	Surface	Uranium-238	pCi/g	9.72E+00	4.08E+03		4.39E-01	4.48E+01
204	18	Surface	Cesium-137	pCi/g	6.30E-01	2.65E+02		2.84E-02	2.90E+00
204	18	Surface	Uranium	mg/kg	1.60E+01	1.75E-05	1.23E-05	1.88E-09	
204	18	Surface	Uranium-235	pCi/g	1.25E-01	5.25E+01		5.64E-03	5.75E-01
204	18	Surface	Uranium-238	pCi/g	5.37E+00	2.26E+03		2.42E-01	2.47E+01
204	23	Surface	Americium-241	pCi/g	3.71E+00	1.56E+03		1.67E-01	1.71E+01
204	23	Surface	Beryllium	mg/kg	1.33E+00	1.46E-06	1.43E-07	1.57E-10	
204	23	Surface	Cesium-137	pCi/g	1.17E+00	4.92E+02		5.29E-02	5.39E+00
204	23	Surface	Chromium	mg/kg	1.75E+02	1.92E-04	1.34E-04	2.06E-08	
204	23	Surface	Cobalt-60	pCi/g	1.23E-02	5.15E+00		5.53E-04	5.64E-02
204	23	Surface	PCB, Total	mg/kg	7.90E+01	8.66E-05	1.70E-04	1.58E-05	
204	23	Surface	Uranium	mg/kg	1.31E+04	1.43E-02	1.00E-02	1.54E-06	
204	23	Surface	Uranium-234	pCi/g	4.45E+02	1.87E+05		2.01E+01	2.05E+03
204	23	Surface	Uranium-235	pCi/g	5.70E+01	2.39E+04		2.57E+00	2.62E+02
204	23	Surface	Uranium-238	pCi/g	4.39E+03	1.84E+06		1.98E+02	2.02E+04
211	1	Surface	Chromium	mg/kg	4.48E+01	4.90E-05	3.43E-05	5.27E-09	
211	1	Surface	Neptunium-237	pCi/g	1.46E-01	6.13E+01		6.59E-03	6.72E-01
211	1	Surface	PCB, Total	mg/kg	3.60E-01	3.95E-07	7.73E-07	7.20E-08	
211	1	Surface	Total PAH	mg/kg	1.04E-01	1.14E-07	2.07E-07	9.08E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
211	1	Surface	Uranium	mg/kg	2.19E+01	2.40E-05	1.68E-05	2.57E-09	
211	1	Surface	Uranium-235	pCi/g	2.12E-01	8.90E+01		9.57E-03	9.76E-01
211	1	Surface	Uranium-238	pCi/g	5.84E+00	2.45E+03		2.64E-01	2.69E+01
212	1	Surface	Arsenic	mg/kg	1.44E+01	1.58E-05	6.64E-06	1.70E-09	
212	1	Surface	Beryllium	mg/kg	8.10E-01	8.88E-07	8.70E-08	9.54E-11	
212	1	Surface	Cesium-137	pCi/g	6.01E-01	2.52E+02		2.71E-02	2.77E+00
212	1	Surface	Chromium	mg/kg	3.58E+01	3.92E-05	2.75E-05	4.22E-09	
212	1	Surface	Cobalt-60	pCi/g	8.76E-03	3.68E+00		3.95E-04	4.03E-02
212	1	Surface	Iron	mg/kg	4.14E+04	4.54E-02	3.18E-02	4.88E-06	
212	1	Surface	Neptunium-237	pCi/g	4.00E+00	1.68E+03		1.81E-01	1.84E+01
212	1	Surface	Nickel	mg/kg	8.69E+01	9.52E-05	5.33E-05	1.02E-08	
212	1	Surface	PCB, Total	mg/kg	1.80E-01	1.97E-07	3.87E-07	3.60E-08	
212	1	Surface	Plutonium-239/240	pCi/g	6.71E+00	2.82E+03		3.03E-01	3.09E+01
212	1	Surface	Thorium-230	pCi/g	2.60E+02	1.09E+05		1.17E+01	1.20E+03
212	1	Surface	Uranium	mg/kg	2.30E+01	2.52E-05	1.76E-05	2.71E-09	
212	1	Surface	Uranium-235	pCi/g	2.09E-01	8.78E+01		9.43E-03	9.62E-01
212	1	Surface	Uranium-238	pCi/g	3.17E+00	1.33E+03		1.43E-01	1.46E+01
213	1	Surface	Antimony	mg/kg	8.50E-01	9.32E-07	6.52E-07	1.00E-10	
213	1	Surface	Chromium	mg/kg	4.78E+01	5.24E-05	3.67E-05	5.63E-09	
213	1	Surface	Nickel	mg/kg	6.67E+01	7.31E-05	4.10E-05	7.86E-09	
213	1	Surface	PCB, Total	mg/kg	7.30E-02	8.00E-08	1.57E-07	1.46E-08	
213	1	Surface	Silver	mg/kg	1.32E+01	1.44E-05	8.08E-06	1.55E-09	
213	1	Surface	Total PAH	mg/kg	1.72E-01	1.88E-07	3.43E-07	1.50E-09	
213	1	Surface	Uranium-238	pCi/g	2.33E+00	9.79E+02		1.05E-01	1.07E+01
213	2	Surface	Chromium	mg/kg	4.48E+01	4.91E-05	3.44E-05	5.28E-09	
213	2	Surface	Nickel	mg/kg	9.10E+01	9.97E-05	5.58E-05	1.07E-08	
213	2	Surface	Silver	mg/kg	1.13E+01	1.23E-05	6.91E-06	1.33E-09	
214	1	Surface	Antimony	mg/kg	5.70E-01	6.25E-07	4.37E-07	6.71E-11	
215	1	Surface	Antimony	mg/kg	6.80E-01	7.45E-07	5.22E-07	8.01E-11	
215	1	Surface	Chromium	mg/kg	5.73E+01	6.28E-05	4.40E-05	6.75E-09	
215	1	Surface	Iron	mg/kg	3.87E+04	4.24E-02	2.97E-02	4.56E-06	
215	1	Surface	Nickel	mg/kg	7.32E+01	8.02E-05	4.49E-05	8.62E-09	
215	1	Surface	Total PAH	mg/kg	8.09E-02	8.86E-08	1.61E-07	7.07E-10	
216	1	Surface	Chromium	mg/kg	2.38E+01	2.61E-05	1.83E-05	2.80E-09	
216	1	Surface	Total PAH	mg/kg	1.49E-01	1.64E-07	2.98E-07	1.31E-09	
216	1	Surface	Uranium-238	pCi/g	1.33E+00	5.59E+02		6.00E-02	6.12E+00
217	1	Surface	Chromium	mg/kg	8.58E+01	9.40E-05	6.58E-05	1.01E-08	
217	1	Surface	Cobalt	mg/kg	1.96E+01	2.14E-05	1.50E-05	2.31E-09	
217	1	Surface	Manganese	mg/kg	7.70E+02	8.44E-04	4.72E-04	9.07E-08	
217	1	Surface	Nickel	mg/kg	8.54E+01	9.36E-05	5.24E-05	1.01E-08	
217	1	Surface	Silver	mg/kg	1.35E+01	1.47E-05	8.25E-06	1.58E-09	
217	1	Surface	Uranium-238	pCi/g	1.15E+00	4.85E+02		5.21E-02	5.31E+00
217	2	Surface	Antimony	mg/kg	1.70E+00	1.86E-06	1.30E-06	2.00E-10	
217	2	Surface	Arsenic	mg/kg	1.12E+01	1.22E-05	5.14E-06	1.31E-09	
217	2	Surface	Chromium	mg/kg	1.02E+02	1.11E-04	7.79E-05	1.20E-08	
217	2	Surface	Cobalt	mg/kg	1.74E+01	1.91E-05	1.33E-05	2.05E-09	
217	2	Surface	Iron	mg/kg	3.09E+04	3.39E-02	2.37E-02	3.64E-06	
217	2	Surface	Manganese	mg/kg	8.44E+02	9.24E-04	5.18E-04	9.94E-08	
217	2	Surface	Mercury	mg/kg	8.59E+00	9.41E-06	6.59E-06	3.04E-05	
217	2	Surface	Nickel	mg/kg	9.74E+01	1.07E-04	5.98E-05	1.15E-08	
217	2	Surface	Silver	mg/kg	1.61E+01	1.76E-05	9.87E-06	1.90E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
217	2	Surface	Total PAH	mg/kg	5.05E-01	5.53E-07	1.01E-06	4.42E-09	
219	1	Surface	Neptunium-237	pCi/g	3.31E-01	1.39E+02		1.49E-02	1.52E+00
219	1	Surface	Nickel	mg/kg	6.71E+01	7.36E-05	4.12E-05	7.91E-09	
219	1	Surface	Total PAH	mg/kg	7.50E-02	8.22E-08	1.50E-07	6.56E-10	
219	1	Surface	Uranium-235	pCi/g	1.92E-01	8.06E+01		8.67E-03	8.84E-01
219	1	Surface	Uranium-238	pCi/g	4.40E+00	1.85E+03		1.99E-01	2.03E+01
221	1	Surface	Barium	mg/kg	2.21E+02	2.42E-04	1.70E-04	2.60E-08	
221	1	Surface	Chromium	mg/kg	7.01E+01	7.68E-05	5.38E-05	8.26E-09	
221	1	Surface	Iron	mg/kg	1.90E+04	2.08E-02	1.46E-02	2.24E-06	
221	1	Surface	Nickel	mg/kg	7.93E+01	8.69E-05	4.86E-05	9.34E-09	
221	1	Surface	PCB, Total	mg/kg	5.00E-01	5.48E-07	1.07E-06	1.00E-07	
221	1	Surface	Total PAH	mg/kg	1.02E+00	1.12E-06	2.04E-06	8.94E-09	
221	1	Surface	Uranium	mg/kg	1.64E+01	1.79E-05	1.25E-05	1.93E-09	
221	1	Surface	Uranium-238	pCi/g	1.93E+00	8.11E+02		8.71E-02	8.88E+00
222	1	Surface	Chromium	mg/kg	4.73E+01	5.18E-05	3.63E-05	5.57E-09	
222	1	Surface	Nickel	mg/kg	9.19E+01	1.01E-04	5.64E-05	1.08E-08	
222	1	Surface	PCB, Total	mg/kg	1.40E+00	1.53E-06	3.01E-06	2.80E-07	
222	1	Surface	Total PAH	mg/kg	1.77E-01	1.94E-07	3.53E-07	1.55E-09	
222	1	Surface	Uranium	mg/kg	2.80E+01	3.07E-05	2.15E-05	3.30E-09	
222	1	Surface	Uranium-234	pCi/g	1.04E+01	4.37E+03		4.69E-01	4.79E+01
222	1	Surface	Uranium-235	pCi/g	7.10E-01	2.98E+02		3.21E-02	3.27E+00
222	1	Surface	Uranium-238	pCi/g	1.96E+01	8.23E+03		8.85E-01	9.02E+01
224	1	Surface	Chromium	mg/kg	4.49E+01	4.92E-05	3.44E-05	5.29E-09	
224	1	Surface	PCB, Total	mg/kg	4.75E+02	5.21E-04	1.02E-03	9.50E-05	
224	1	Surface	Total PAH	mg/kg	4.53E+01	4.96E-05	9.03E-05	3.96E-07	
224	1	Surface	Uranium	mg/kg	4.15E+01	4.55E-05	3.18E-05	4.89E-09	
224	1	Surface	Uranium-235	pCi/g	2.50E-01	1.05E+02		1.13E-02	1.15E+00
224	1	Surface	Uranium-238	pCi/g	2.64E+01	1.11E+04		1.19E+00	1.22E+02
225	1	Surface	Chromium	mg/kg	2.55E+01	2.79E-05	1.96E-05	3.00E-09	
225	1	Surface	Total PAH	mg/kg	7.79E-02	8.53E-08	1.55E-07	6.81E-10	
225	1	Surface	Uranium-238	pCi/g	2.04E+00	8.57E+02		9.21E-02	9.39E+00
226	1	Surface	Americium-241	pCi/g	1.62E+00	6.82E+02		7.33E-02	7.47E+00
226	1	Surface	Antimony	mg/kg	6.60E-01	7.23E-07	5.06E-07	7.77E-11	
226	1	Surface	Cesium-137	pCi/g	2.65E+00	1.11E+03		1.20E-01	1.22E+01
226	1	Surface	Chromium	mg/kg	4.25E+01	4.66E-05	3.26E-05	5.01E-09	
226	1	Surface	Cobalt-60	pCi/g	3.14E-03	1.32E+00		1.42E-04	1.45E-02
226	1	Surface	Manganese	mg/kg	6.30E+02	6.90E-04	3.87E-04	7.42E-08	
226	1	Surface	Mercury	mg/kg	9.74E+00	1.07E-05	7.47E-06	3.44E-05	
226	1	Surface	Neptunium-237	pCi/g	1.60E+02	6.72E+04		7.23E+00	7.37E+02
226	1	Surface	Nickel	mg/kg	2.10E+02	2.30E-04	1.29E-04	2.47E-08	
226	1	Surface	PCB, Total	mg/kg	1.49E+00	1.63E-06	3.20E-06	2.98E-07	
226	1	Surface	Plutonium-238	pCi/g	2.13E+00	8.95E+02		9.62E-02	9.81E+00
226	1	Surface	Plutonium-239/240	pCi/g	6.52E+00	2.74E+03		2.94E-01	3.00E+01
226	1	Surface	Technetium-99	pCi/g	4.96E+01	2.08E+04		2.24E+00	2.28E+02
226	1	Surface	Thorium-230	pCi/g	4.77E+01	2.00E+04		2.15E+00	2.20E+02
226	1	Surface	Total PAH	mg/kg	9.19E-02	1.01E-07	1.83E-07	8.03E-10	
226	1	Surface	Uranium	mg/kg	4.01E+02	4.39E-04	3.08E-04	4.72E-08	
226	1	Surface	Uranium-234	pCi/g	2.29E+01	9.63E+03		1.04E+00	1.06E+02
226	1	Surface	Uranium-235	pCi/g	1.10E+00	4.63E+02		4.97E-02	5.07E+00
226	1	Surface	Uranium-238	pCi/g	2.40E+01	1.01E+04		1.08E+00	1.10E+02
227	1	Surface	Beryllium	mg/kg	5.52E-01	6.05E-07	5.93E-08	6.50E-11	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
227	1	Surface	Cesium-137	pCi/g	1.90E-01	7.98E+01		8.58E-03	8.75E-01
227	1	Surface	Chromium	mg/kg	4.71E+01	5.17E-05	3.62E-05	5.55E-09	
227	1	Surface	Cobalt-60	pCi/g	1.53E-02	6.43E+00		6.91E-04	7.04E-02
227	1	Surface	Neptunium-237	pCi/g	9.05E-01	3.80E+02		4.09E-02	4.17E+00
227	1	Surface	Nickel	mg/kg	2.03E+02	2.22E-04	1.25E-04	2.39E-08	
227	1	Surface	PCB, Total	mg/kg	4.14E+00	4.54E-06	8.90E-06	8.29E-07	
227	1	Surface	Technetium-99	pCi/g	4.77E+01	2.00E+04		2.15E+00	2.20E+02
227	1	Surface	Total PAH	mg/kg	3.38E-01	3.70E-07	6.74E-07	2.95E-09	
227	1	Surface	Uranium	mg/kg	1.02E+02	1.11E-04	7.79E-05	1.20E-08	
227	1	Surface	Uranium-234	pCi/g	1.54E+01	6.48E+03		6.97E-01	7.11E+01
227	1	Surface	Uranium-235	pCi/g	1.49E+00	6.26E+02		6.73E-02	6.86E+00
227	1	Surface	Uranium-238	pCi/g	4.63E+01	1.94E+04		2.09E+00	2.13E+02
227	2	Surface	Beryllium	mg/kg	5.32E-01	5.83E-07	5.71E-08	6.27E-11	
227	2	Surface	Chromium	mg/kg	5.63E+01	6.17E-05	4.32E-05	6.63E-09	
227	2	Surface	Cobalt	mg/kg	8.99E+00	9.85E-06	6.89E-06	1.06E-09	
227	2	Surface	Cobalt-60	pCi/g	1.37E-02	5.75E+00		6.18E-04	6.31E-02
227	2	Surface	Mercury	mg/kg	8.41E+00	9.22E-06	6.45E-06	2.97E-05	
227	2	Surface	Nickel	mg/kg	1.25E+02	1.37E-04	7.67E-05	1.47E-08	
227	2	Surface	PCB, Total	mg/kg	5.82E+00	6.38E-06	1.25E-05	1.16E-06	
227	2	Surface	Total PAH	mg/kg	1.16E-01	1.27E-07	2.31E-07	1.01E-09	
227	2	Surface	Uranium	mg/kg	1.51E+01	1.65E-05	1.15E-05	1.77E-09	
227	2	Surface	Uranium-238	pCi/g	1.57E+00	6.61E+02		7.10E-02	7.24E+00
228	1	Surface	Antimony	mg/kg	6.30E-01	6.90E-07	4.83E-07	7.42E-11	
228	1	Surface	Cadmium	mg/kg	3.90E+00	4.27E-06	5.98E-08	4.59E-10	
228	1	Surface	Chromium	mg/kg	1.89E+02	2.07E-04	1.45E-04	2.23E-08	
228	1	Surface	Mercury	mg/kg	9.37E+00	1.03E-05	7.19E-06	3.31E-05	
228	1	Surface	Neptunium-237	pCi/g	8.00E-01	3.36E+02		3.61E-02	3.68E+00
228	1	Surface	Nickel	mg/kg	7.92E+01	8.68E-05	4.86E-05	9.32E-09	
228	1	Surface	Silver	mg/kg	1.16E+01	1.27E-05	7.14E-06	1.37E-09	
228	1	Surface	Total PAH	mg/kg	6.69E-02	7.33E-08	1.33E-07	5.85E-10	
228	1	Surface	Uranium	mg/kg	1.51E+01	1.66E-05	1.16E-05	1.78E-09	
228	1	Surface	Uranium-235	pCi/g	1.78E-01	7.48E+01		8.04E-03	8.19E-01
228	1	Surface	Uranium-238	pCi/g	3.77E+00	1.58E+03		1.70E-01	1.74E+01
229	1	Surface	Nickel	mg/kg	9.14E+01	1.00E-04	5.61E-05	1.08E-08	
229	1	Surface	Total PAH	mg/kg	1.57E-01	1.72E-07	3.13E-07	1.37E-09	
229	1	Surface	Uranium	mg/kg	1.56E+02	1.71E-04	1.20E-04	1.84E-08	
229	1	Surface	Uranium-238	pCi/g	2.86E+00	1.20E+03		1.29E-01	1.32E+01
229	2	Surface	Arsenic	mg/kg	2.12E+01	2.32E-05	9.76E-06	2.50E-09	
229	2	Surface	Beryllium	mg/kg	7.90E-01	8.66E-07	8.48E-08	9.31E-11	
229	2	Surface	Chromium	mg/kg	2.91E+01	3.19E-05	2.24E-05	3.43E-09	
229	2	Surface	Neptunium-237	pCi/g	2.87E-01	1.21E+02		1.30E-02	1.32E+00
229	2	Surface	Nickel	mg/kg	9.93E+01	1.09E-04	6.09E-05	1.17E-08	
229	2	Surface	Total PAH	mg/kg	1.69E+00	1.86E-06	3.38E-06	1.48E-08	
229	2	Surface	Uranium	mg/kg	7.45E+01	8.16E-05	5.72E-05	8.78E-09	
229	2	Surface	Uranium-234	pCi/g	1.22E+01	5.12E+03		5.51E-01	5.62E+01
229	2	Surface	Uranium-235	pCi/g	8.40E-01	3.53E+02		3.79E-02	3.87E+00
229	2	Surface	Uranium-238	pCi/g	2.49E+01	1.05E+04		1.12E+00	1.15E+02
483	1	Surface	Nickel	mg/kg	1.17E+02	1.28E-04	7.15E-05	1.37E-08	
483	1	Surface	Silver	mg/kg	1.12E+01	1.23E-05	6.87E-06	1.32E-09	
483	1	Surface	Total PAH	mg/kg	2.39E-02	2.62E-08	4.77E-08	2.09E-10	
486	1	Surface	Cesium-137	pCi/g					

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
487	1	Surface	Cesium-137	pCi/g					
488	1	Surface	Cesium-137	pCi/g	5.20E-01	2.18E+02		2.35E-02	2.39E+00
488	1	Surface	PCB, Total	mg/kg	1.03E+01	1.13E-05	2.21E-05	2.06E-06	
488	1	Surface	Total PAH	mg/kg	2.50E-01	2.74E-07	4.98E-07	2.18E-09	
488	1	Surface	Uranium	mg/kg	1.48E+01	1.62E-05	1.14E-05	1.74E-09	
488	1	Surface	Uranium-235	pCi/g	1.49E-01	6.26E+01		6.73E-03	6.86E-01
488	1	Surface	Uranium-238	pCi/g	4.54E+00	1.91E+03		2.05E-01	2.09E+01
489	1	Surface	Chromium	mg/kg	4.16E+01	4.56E-05	3.19E-05	4.90E-09	
489	1	Surface	Nickel	mg/kg	7.88E+01	8.64E-05	4.84E-05	9.28E-09	
489	1	Surface	Total PAH	mg/kg	8.22E-02	9.01E-08	1.64E-07	7.19E-10	
489	1	Surface	Uranium-238	pCi/g	1.47E+00	6.17E+02		6.64E-02	6.77E+00
492	1	Surface	Arsenic	mg/kg	1.47E+01	1.61E-05	6.77E-06	1.73E-09	
492	1	Surface	Beryllium	mg/kg	1.04E+01	1.14E-05	1.12E-06	1.23E-09	
492	1	Surface	Cadmium	mg/kg	3.14E+00	3.44E-06	4.82E-08	3.70E-10	
492	1	Surface	Chromium	mg/kg	1.04E+03	1.14E-03	7.98E-04	1.23E-07	
492	1	Surface	Cobalt-60	pCi/g	9.63E-03	4.04E+00		4.35E-04	4.43E-02
492	1	Surface	Neptunium-237	pCi/g	2.09E-01	8.78E+01		9.43E-03	9.62E-01
492	1	Surface	PCB, Total	mg/kg	4.41E+01	4.83E-05	9.47E-05	8.82E-06	
492	1	Surface	Uranium	mg/kg	1.77E+03	1.94E-03	1.36E-03	2.08E-07	
492	1	Surface	Uranium-234	pCi/g	5.39E+01	2.26E+04		2.43E+00	2.48E+02
492	1	Surface	Uranium-235	pCi/g	5.72E+00	2.40E+03		2.58E-01	2.63E+01
492	1	Surface	Uranium-238	pCi/g	3.83E+02	1.61E+05		1.73E+01	1.76E+03
492	1	Surface	Vanadium	mg/kg	4.32E+01	4.73E-05	1.72E-05	5.09E-09	
493	1	Surface	Aluminum	mg/kg	1.44E+04	1.58E-02	1.10E-02	1.70E-06	
493	1	Surface	Barium	mg/kg	4.04E+02	4.43E-04	3.10E-04	4.76E-08	
493	1	Surface	Beryllium	mg/kg	9.91E-01	1.09E-06	1.06E-07	1.17E-10	
493	1	Surface	Chromium	mg/kg	6.61E+01	7.24E-05	5.07E-05	7.79E-09	
493	1	Surface	Cobalt	mg/kg	3.79E+01	4.15E-05	2.91E-05	4.46E-09	
493	1	Surface	Cobalt-60	pCi/g	1.36E-02	5.71E+00		6.14E-04	6.26E-02
493	1	Surface	Manganese	mg/kg	3.55E+03	3.89E-03	2.18E-03	4.18E-07	
493	1	Surface	Mercury	mg/kg	2.60E-01	2.85E-07	1.99E-07	9.19E-07	
493	1	Surface	Neptunium-237	pCi/g	1.22E-01	5.12E+01		5.51E-03	5.62E-01
493	1	Surface	Nickel	mg/kg	2.13E+02	2.33E-04	1.31E-04	2.51E-08	
493	1	Surface	PCB, Total	mg/kg	2.60E-01	2.85E-07	5.58E-07	5.20E-08	
493	1	Surface	Total PAH	mg/kg	5.00E-01	5.48E-07	9.97E-07	4.37E-09	
493	1	Surface	Uranium-235	pCi/g	1.65E-01	6.93E+01		7.45E-03	7.59E-01
493	1	Surface	Uranium-238	pCi/g	5.50E+00	2.31E+03		2.48E-01	2.53E+01
493	1	Surface	Vanadium	mg/kg	4.05E+01	4.44E-05	1.62E-05	4.77E-09	
517	1	Surface	Beryllium	mg/kg	7.39E-01	8.10E-07	7.94E-08	8.70E-11	
517	1	Surface	Chromium	mg/kg	4.91E+01	5.38E-05	3.77E-05	5.78E-09	
517	1	Surface	Cobalt-60	pCi/g	6.39E-03	2.68E+00		2.88E-04	2.94E-02
517	1	Surface	Neptunium-237	pCi/g	1.07E+00	4.49E+02		4.83E-02	4.92E+00
517	1	Surface	Nickel	mg/kg	1.72E+02	1.88E-04	1.06E-04	2.03E-08	
517	1	Surface	PCB, Total	mg/kg	5.00E-01	5.48E-07	1.07E-06	1.00E-07	
517	1	Surface	Uranium-235	pCi/g	1.60E-01	6.72E+01		7.22E-03	7.36E-01
517	1	Surface	Uranium-238	pCi/g	3.89E+00	1.63E+03		1.76E-01	1.79E+01
518	1	Surface	Carbazole	mg/kg	1.17E+01	1.28E-05	1.80E-05	6.43E-07	
518	1	Surface	Cobalt	mg/kg	6.80E+00	7.46E-06	5.22E-06	8.01E-10	
518	1	Surface	Nickel	mg/kg	1.29E+01	1.41E-05	7.89E-06	1.51E-09	
518	1	Surface	PCB, Total	mg/kg	6.30E-01	6.90E-07	1.35E-06	1.26E-07	
518	1	Surface	Pyrene	mg/kg	3.94E+01	4.32E-05	7.86E-05	3.07E-06	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
518	1	Surface	Total PAH	mg/kg	4.64E+00	5.08E-06	9.25E-06	4.05E-08	
518	1	Surface	Uranium	mg/kg	2.17E+02	2.38E-04	1.66E-04	2.56E-08	
518	1	Surface	Uranium-235	pCi/g	6.74E-02	2.83E+01		3.04E-03	3.10E-01
518	1	Surface	Uranium-238	pCi/g	1.51E+00	6.36E+02		6.83E-02	6.97E+00
520	1	Surface	Cesium-137	pCi/g	9.62E-01	4.04E+02		4.34E-02	4.43E+00
520	1	Surface	Chromium	mg/kg	3.17E+01	3.48E-05	2.43E-05	3.74E-09	
520	1	Surface	Iron	mg/kg	1.56E+04	1.71E-02	1.20E-02	1.84E-06	
520	1	Surface	Mercury	mg/kg	1.07E+01	1.17E-05	8.19E-06	3.77E-05	
520	1	Surface	Neptunium-237	pCi/g	6.56E-01	2.76E+02		2.96E-02	3.02E+00
520	1	Surface	Nickel	mg/kg	2.60E+02	2.85E-04	1.60E-04	3.07E-08	
520	1	Surface	Silver	mg/kg	1.30E+01	1.42E-05	7.96E-06	1.53E-09	
520	1	Surface	Thorium-230	pCi/g	1.13E+01	4.76E+03		5.12E-01	5.22E+01
520	1	Surface	Total PAH	mg/kg	3.18E-02	3.49E-08	6.35E-08	2.78E-10	
520	1	Surface	Uranium	mg/kg	2.29E+01	2.51E-05	1.76E-05	2.70E-09	
520	1	Surface	Uranium-235	pCi/g	1.26E-01	5.29E+01		5.69E-03	5.80E-01
520	1	Surface	Uranium-238	pCi/g	3.93E+00	1.65E+03		1.77E-01	1.81E+01
520	2	Surface	Beryllium	mg/kg	5.79E-01	6.35E-07	6.22E-08	6.82E-11	
520	2	Surface	Chromium	mg/kg	6.67E+01	7.30E-05	5.11E-05	7.85E-09	
520	2	Surface	Manganese	mg/kg	5.89E+02	6.46E-04	3.62E-04	6.94E-08	
520	2	Surface	Mercury	mg/kg	1.19E+01	1.30E-05	9.11E-06	4.20E-05	
520	2	Surface	Neptunium-237	pCi/g	7.48E-02	3.14E+01		3.38E-03	3.44E-01
520	2	Surface	Nickel	mg/kg	3.11E+02	3.40E-04	1.91E-04	3.66E-08	
520	2	Surface	Total PAH	mg/kg	3.17E-01	3.47E-07	6.32E-07	2.77E-09	
520	2	Surface	Uranium	mg/kg	3.96E+01	4.34E-05	3.03E-05	4.66E-09	
520	2	Surface	Uranium-238	pCi/g	1.78E+00	7.47E+02		8.03E-02	8.18E+00
520	3	Surface	Chromium	mg/kg	3.97E+01	4.35E-05	3.04E-05	4.67E-09	
520	3	Surface	Copper	mg/kg	1.19E+02	1.30E-04	9.13E-05	1.40E-08	
520	3	Surface	Nickel	mg/kg	2.65E+02	2.90E-04	1.63E-04	3.12E-08	
520	3	Surface	Silver	mg/kg	1.27E+01	1.39E-05	7.78E-06	1.49E-09	
520	3	Surface	Total PAH	mg/kg	1.18E-01	1.29E-07	2.36E-07	1.03E-09	
520	3	Surface	Uranium	mg/kg	1.92E+01	2.11E-05	1.48E-05	2.27E-09	
520	3	Surface	Uranium-238	pCi/g	1.57E+00	6.59E+02		7.09E-02	7.23E+00
520	4	Surface	Chromium	mg/kg	3.82E+01	4.19E-05	2.93E-05	4.50E-09	
520	4	Surface	Copper	mg/kg	1.11E+02	1.21E-04	8.48E-05	1.30E-08	
520	4	Surface	Mercury	mg/kg	9.69E+00	1.06E-05	7.43E-06	3.42E-05	
520	4	Surface	Neptunium-237	pCi/g	7.40E-01	3.11E+02		3.34E-02	3.41E+00
520	4	Surface	Nickel	mg/kg	2.82E+02	3.09E-04	1.73E-04	3.32E-08	
520	4	Surface	Silver	mg/kg	1.04E+01	1.14E-05	6.41E-06	1.23E-09	
520	4	Surface	Total PAH	mg/kg	5.52E-01	6.05E-07	1.10E-06	4.83E-09	
520	4	Surface	Uranium	mg/kg	2.40E+01	2.63E-05	1.84E-05	2.83E-09	
520	4	Surface	Uranium-235	pCi/g	2.42E-01	1.02E+02		1.09E-02	1.11E+00
520	4	Surface	Uranium-238	pCi/g	6.26E+00	2.63E+03		2.83E-01	2.88E+01
520	5	Surface	Antimony	mg/kg	9.60E-01	1.05E-06	7.36E-07	1.13E-10	
520	5	Surface	Chromium	mg/kg	3.68E+01	4.04E-05	2.82E-05	4.34E-09	
520	5	Surface	Neptunium-237	pCi/g	1.55E-01	6.51E+01		7.00E-03	7.13E-01
520	5	Surface	Nickel	mg/kg	1.47E+02	1.61E-04	9.02E-05	1.73E-08	
520	5	Surface	Total PAH	mg/kg	3.87E-01	4.24E-07	7.72E-07	3.39E-09	
520	5	Surface	Uranium-238	pCi/g	1.45E+00	6.09E+02		6.55E-02	6.67E+00
531	1	Surface	Antimony	mg/kg	1.00E+00	1.10E-06	7.67E-07	1.18E-10	
531	1	Surface	Arsenic	mg/kg	4.68E+01	5.13E-05	2.16E-05	5.51E-09	
531	1	Surface	Cadmium	mg/kg	3.10E+00	3.40E-06	4.76E-08	3.65E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
531	1	Surface	Chromium	mg/kg	5.05E+01	5.53E-05	3.87E-05	5.94E-09	
531	1	Surface	Iron	mg/kg	5.68E+04	6.23E-02	4.36E-02	6.70E-06	
531	1	Surface	Nickel	mg/kg	1.62E+02	1.78E-04	9.96E-05	1.91E-08	
531	1	Surface	Total PAH	mg/kg	5.34E-02	5.85E-08	1.06E-07	4.67E-10	
531	1	Surface	Uranium	mg/kg	2.41E+01	2.64E-05	1.85E-05	2.84E-09	
531	1	Surface	Uranium-235	pCi/g	1.38E-01	5.80E+01		6.23E-03	6.35E-01
531	1	Surface	Uranium-238	pCi/g	3.48E+00	1.46E+03		1.57E-01	1.60E+01
531	1	Surface	Zinc	mg/kg	2.45E+03	2.69E-03	1.88E-03	2.89E-07	
541	1	Surface	Aluminum	mg/kg	1.43E+04	1.57E-02	1.10E-02	1.68E-06	
541	1	Surface	Americium-241	pCi/g	7.53E+00	3.16E+03		3.40E-01	3.47E+01
541	1	Surface	Barium	mg/kg	1.28E+02	1.40E-04	9.82E-05	1.51E-08	
541	1	Surface	Beryllium	mg/kg	6.98E-01	7.65E-07	7.50E-08	8.22E-11	
541	1	Surface	Cadmium	mg/kg	1.68E+00	1.84E-06	2.58E-08	1.98E-10	
541	1	Surface	Cesium-137	pCi/g	9.58E-01	4.02E+02		4.32E-02	4.41E+00
541	1	Surface	Chromium	mg/kg	8.24E+02	9.03E-04	6.32E-04	9.71E-08	
541	1	Surface	Cobalt-60	pCi/g	1.01E-02	4.24E+00		4.56E-04	4.65E-02
541	1	Surface	Iron	mg/kg	1.60E+04	1.75E-02	1.22E-02	1.88E-06	
541	1	Surface	Mercury	mg/kg	9.81E-02	1.08E-07	7.53E-08	3.47E-07	
541	1	Surface	Naphthalene	mg/kg	6.55E-01	7.18E-07	2.51E-06	2.59E-06	
541	1	Surface	Neptunium-237	pCi/g	5.52E-02	2.32E+01		2.49E-03	2.54E-01
541	1	Surface	Nickel	mg/kg	1.52E+01	1.67E-05	9.35E-06	1.80E-09	
541	1	Surface	PCB, Total	mg/kg	6.06E+01	6.64E-05	1.30E-04	1.21E-05	
541	1	Surface	Total PAH	mg/kg	2.33E+00	2.55E-06	4.65E-06	2.04E-08	
541	1	Surface	Uranium	mg/kg	6.38E+03	7.00E-03	4.90E-03	7.52E-07	
541	1	Surface	Uranium-234	pCi/g	1.43E+02	6.00E+04		6.45E+00	6.58E+02
541	1	Surface	Uranium-235	pCi/g	1.76E+01	7.38E+03		7.93E-01	8.08E+01
541	1	Surface	Uranium-238	pCi/g	1.00E+03	4.20E+05		4.52E+01	4.61E+03
541	1	Surface	Vanadium	mg/kg	3.04E+01	3.34E-05	1.21E-05	3.59E-09	
561	1	Surface	Antimony	mg/kg	9.36E-01	1.03E-06	7.18E-07	1.10E-10	
561	1	Surface	Arsenic	mg/kg	1.66E+01	1.81E-05	7.62E-06	1.95E-09	
561	1	Surface	Barium	mg/kg	1.40E+02	1.54E-04	1.08E-04	1.65E-08	
561	1	Surface	Beryllium	mg/kg	6.85E-01	7.51E-07	7.36E-08	8.07E-11	
561	1	Surface	Chromium	mg/kg	8.58E+01	9.40E-05	6.58E-05	1.01E-08	
561	1	Surface	Cobalt	mg/kg	1.07E+01	1.17E-05	8.20E-06	1.26E-09	
561	1	Surface	Cobalt-60	pCi/g	7.06E-02	2.97E+01		3.19E-03	3.25E-01
561	1	Surface	Iron	mg/kg	2.05E+04	2.24E-02	1.57E-02	2.41E-06	
561	1	Surface	Manganese	mg/kg	1.61E+03	1.76E-03	9.87E-04	1.90E-07	
561	1	Surface	Neptunium-237	pCi/g	2.71E-02	1.14E+01		1.22E-03	1.25E-01
561	1	Surface	PCB, Total	mg/kg	1.04E+00	1.14E-06	2.24E-06	2.08E-07	
561	1	Surface	Thallium	mg/kg	3.33E-01	3.65E-07	2.55E-07	3.92E-11	
561	1	Surface	Total PAH	mg/kg	1.65E-01	1.81E-07	3.29E-07	1.44E-09	
561	1	Surface	Uranium	mg/kg	2.65E+02	2.90E-04	2.03E-04	3.12E-08	
561	1	Surface	Uranium-234	pCi/g	7.84E+00	3.29E+03		3.54E-01	3.61E+01
561	1	Surface	Uranium-235	pCi/g	1.37E+00	5.74E+02		6.17E-02	6.29E+00
561	1	Surface	Uranium-238	pCi/g	1.07E+02	4.47E+04		4.81E+00	4.90E+02
561	1	Surface	Vanadium	mg/kg	3.76E+01	4.12E-05	1.50E-05	4.43E-09	
561	2	Surface	Antimony	mg/kg	5.33E+00	5.85E-06	4.09E-06	6.28E-10	
561	2	Surface	Arsenic	mg/kg	1.30E+01	1.43E-05	5.99E-06	1.53E-09	
561	2	Surface	Beryllium	mg/kg	6.34E-01	6.95E-07	6.81E-08	7.47E-11	
561	2	Surface	Cadmium	mg/kg	4.13E-01	4.53E-07	6.34E-09	4.86E-11	
561	2	Surface	Cesium-137	pCi/g	4.09E-01	1.72E+02		1.85E-02	1.88E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
561	2	Surface	Chromium	mg/kg	2.88E+02	3.16E-04	2.21E-04	3.39E-08	
561	2	Surface	Cobalt	mg/kg	1.14E+01	1.25E-05	8.75E-06	1.34E-09	
561	2	Surface	Cobalt-60	pCi/g	2.76E-02	1.16E+01		1.25E-03	1.27E-01
561	2	Surface	Manganese	mg/kg	1.12E+03	1.22E-03	6.84E-04	1.31E-07	
561	2	Surface	Neptunium-237	pCi/g	4.71E-02	1.98E+01		2.13E-03	2.17E-01
561	2	Surface	PCB, Total	mg/kg	1.64E+01	1.79E-05	3.51E-05	3.27E-06	
561	2	Surface	Thallium	mg/kg	4.09E-01	4.48E-07	3.14E-07	4.82E-11	
561	2	Surface	Total PAH	mg/kg	4.43E-01	4.85E-07	8.84E-07	3.87E-09	
561	2	Surface	Uranium	mg/kg	1.38E+03	1.52E-03	1.06E-03	1.63E-07	
561	2	Surface	Uranium-234	pCi/g	4.06E+01	1.71E+04		1.83E+00	1.87E+02
561	2	Surface	Uranium-235	pCi/g	7.09E+00	2.98E+03		3.20E-01	3.26E+01
561	2	Surface	Uranium-238	pCi/g	4.00E+02	1.68E+05		1.81E+01	1.84E+03
561	2	Surface	Vanadium	mg/kg	3.46E+01	3.79E-05	1.38E-05	4.07E-09	
562	1	Surface	Uranium	mg/kg	8.73E+01	9.57E-05	6.70E-05	1.03E-08	
562	1	Surface	Uranium-238	pCi/g	2.73E+00	1.15E+03		1.23E-01	1.26E+01
562	2	Surface	PCB, Total	mg/kg	1.58E+00	1.73E-06	3.39E-06	3.16E-07	
562	2	Surface	Uranium-234	pCi/g	5.34E+01	2.24E+04		2.41E+00	2.46E+02
562	2	Surface	Uranium-235	pCi/g	8.96E+00	3.76E+03		4.04E-01	4.12E+01
562	2	Surface	Uranium-238	pCi/g	5.81E+02	2.44E+05		2.62E+01	2.67E+03
562	3	Surface	Chromium	mg/kg	3.82E+01	4.18E-05	2.93E-05	4.49E-09	
562	3	Surface	PCB, Total	mg/kg	2.40E-01	2.63E-07	5.16E-07	4.80E-08	
562	3	Surface	Total PAH	mg/kg	2.20E-01	2.41E-07	4.39E-07	1.92E-09	
562	3	Surface	Uranium	mg/kg	5.89E+01	6.45E-05	4.52E-05	6.94E-09	
562	3	Surface	Uranium-235	pCi/g	1.63E-01	6.85E+01		7.36E-03	7.50E-01
562	3	Surface	Uranium-238	pCi/g	1.09E+01	4.58E+03		4.92E-01	5.02E+01
562	4	Surface	Chromium	mg/kg	4.67E+01	5.11E-05	3.58E-05	5.50E-09	
562	4	Surface	Uranium	mg/kg	2.10E+01	2.30E-05	1.61E-05	2.47E-09	
562	4	Surface	Uranium-238	pCi/g	2.24E+00	9.41E+02		1.01E-01	1.03E+01
562	5	Surface	Chromium	mg/kg	1.53E+02	1.68E-04	1.17E-04	1.80E-08	
562	5	Surface	PCB, Total	mg/kg	9.50E-01	1.04E-06	2.04E-06	1.90E-07	
562	5	Surface	Total PAH	mg/kg	7.05E-02	7.73E-08	1.41E-07	6.16E-10	
562	5	Surface	Uranium	mg/kg	2.08E+02	2.28E-04	1.60E-04	2.45E-08	
562	5	Surface	Uranium-234	pCi/g	8.57E+00	3.60E+03		3.87E-01	3.94E+01
562	5	Surface	Uranium-235	pCi/g	9.50E-01	3.99E+02		4.29E-02	4.37E+00
562	5	Surface	Uranium-238	pCi/g	6.24E+01	2.62E+04		2.82E+00	2.87E+02
563	1	Surface	Cadmium	mg/kg	8.96E-01	9.82E-07	1.37E-08	1.06E-10	
563	1	Surface	Chromium	mg/kg	2.85E+02	3.12E-04	2.19E-04	3.36E-08	
563	1	Surface	PCB, Total	mg/kg	7.40E-01	8.11E-07	1.59E-06	1.48E-07	
563	1	Surface	Uranium	mg/kg	1.51E+01	1.65E-05	1.16E-05	1.78E-09	
563	1	Surface	Uranium-238	pCi/g	2.76E+00	1.16E+03		1.25E-01	1.27E+01
563	2	Surface	Cesium-137	pCi/g	6.47E-01	2.72E+02		2.92E-02	2.98E+00
563	2	Surface	Uranium-238	pCi/g	1.49E+00	6.26E+02		6.73E-02	6.86E+00
564	1	Surface	Arsenic	mg/kg	4.30E+01	4.71E-05	1.98E-05	5.06E-09	
564	1	Surface	Beryllium	mg/kg	2.12E+00	2.32E-06	2.28E-07	2.50E-10	
564	1	Surface	Cadmium	mg/kg	1.96E+00	2.15E-06	3.01E-08	2.31E-10	
564	1	Surface	Cesium-137	pCi/g	6.20E-01	2.60E+02		2.80E-02	2.85E+00
564	1	Surface	Chromium	mg/kg	7.49E+01	8.21E-05	5.75E-05	8.82E-09	
564	1	Surface	Iron	mg/kg	3.66E+04	4.01E-02	2.81E-02	4.31E-06	
564	1	Surface	Mercury	mg/kg	2.30E-01	2.52E-07	1.76E-07	8.13E-07	
564	1	Surface	Nickel	mg/kg	2.24E+01	2.45E-05	1.37E-05	2.64E-09	
564	1	Surface	PCB, Total	mg/kg	1.93E+00	2.12E-06	4.15E-06	3.86E-07	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.18. Cancerous CDIs for the Future Hypothetical Child Resident Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
564	1	Surface	Thallium	mg/kg	2.36E+00	2.59E-06	1.81E-06	2.78E-10	
564	1	Surface	Thorium-230	pCi/g	5.01E+00	2.10E+03		2.26E-01	2.31E+01
564	1	Surface	Uranium	mg/kg	5.83E+01	6.39E-05	4.47E-05	6.87E-09	
564	1	Surface	Uranium-234	pCi/g	6.93E+00	2.91E+03		3.13E-01	3.19E+01
564	1	Surface	Uranium-235	pCi/g	3.87E-01	1.63E+02		1.75E-02	1.78E+00
564	1	Surface	Uranium-238	pCi/g	8.33E+00	3.50E+03		3.76E-01	3.83E+01
564	1	Surface	Vanadium	mg/kg	8.06E+01	8.83E-05	3.22E-05	9.49E-09	
567	3	Surface	Chromium	mg/kg	3.79E+01	4.15E-05	2.91E-05	4.46E-09	
567	4	Surface	Aluminum	mg/kg	1.25E+04	1.37E-02	9.61E-03	1.47E-06	
567	4	Surface	Chromium	mg/kg	1.63E+01	1.79E-05	1.25E-05	1.92E-09	
567	4	Surface	Uranium-238	pCi/g	1.05E+00	4.41E+02		4.74E-02	4.83E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
1	1	Surface	Beryllium	mg/kg	3.89E+00	7.24E-07	1.82E-06	4.67E-10
1	1	Surface	Cadmium	mg/kg	1.10E+00	2.04E-07	7.36E-08	1.32E-10
1	1	Surface	Cesium-137	pCi/g	5.91E-01	1.10E-07		7.09E-11
1	1	Surface	Chromium	mg/kg	1.28E+01	2.38E-06	4.29E-05	1.54E-09
1	1	Surface	Neptunium-237	pCi/g	4.02E-01	7.47E-08		4.82E-11
1	1	Surface	PCB, Total	mg/kg	1.76E-01	3.27E-08	1.65E-06	3.58E-08
1	1	Surface	Plutonium-239/240	pCi/g	6.14E+00	1.14E-06		7.36E-10
1	1	Surface	Thorium-230	pCi/g	4.40E+01	8.18E-06		5.28E-09
1	1	Surface	Uranium-235	pCi/g	1.06E-01	1.97E-08		1.27E-11
1	1	Surface	Uranium-238	pCi/g	1.97E+00	3.67E-07		2.37E-10
1	2	Surface	Beryllium	mg/kg	8.23E+00	1.53E-06	3.85E-06	9.87E-10
1	2	Surface	Cadmium	mg/kg	6.46E+00	1.20E-06	4.32E-07	7.75E-10
1	2	Surface	Chromium	mg/kg	2.01E+02	3.74E-05	6.73E-04	2.41E-08
1	2	Surface	Copper	mg/kg	1.81E+02	3.36E-05	6.05E-04	2.17E-08
1	2	Surface	Mercury	mg/kg	5.94E+00	1.10E-06	1.99E-05	2.14E-05
1	2	Surface	Nickel	mg/kg	5.75E+01	1.07E-05	1.54E-04	6.89E-09
1	2	Surface	PCB, Total	mg/kg	3.22E+01	5.99E-06	3.02E-04	6.56E-06
1	2	Surface	Silver	mg/kg	3.31E+01	6.16E-06	8.87E-05	3.97E-09
1	2	Surface	Thallium	mg/kg	3.70E-01	6.88E-08	1.24E-06	4.44E-11
1	2	Surface	Vanadium	mg/kg	3.49E+01	6.48E-06	6.06E-05	4.18E-09
1	3	Surface	Chromium	mg/kg	1.45E+01	2.69E-06	4.84E-05	1.73E-09
1	3	Surface	PCB, Total	mg/kg	2.17E-01	4.03E-08	2.03E-06	4.42E-08
1	3	Surface	Uranium-238	pCi/g	1.73E+00	3.21E-07		2.07E-10
1	4	Surface	Beryllium	mg/kg	7.25E-01	1.35E-07	3.40E-07	8.69E-11
1	4	Surface	Chromium	mg/kg	9.30E+01	1.73E-05	3.11E-04	1.12E-08
1	4	Surface	Cobalt-60	pCi/g	2.20E-02	4.09E-09		2.64E-12
1	4	Surface	Nickel	mg/kg	4.69E+01	8.71E-06	1.25E-04	5.62E-09
1	4	Surface	PCB, Total	mg/kg	1.30E-01	2.42E-08	1.22E-06	2.65E-08
1	4	Surface	Thorium-230	pCi/g	5.03E+00	9.35E-07		6.03E-10
1	5	Surface	Beryllium	mg/kg	8.30E+00	1.54E-06	3.89E-06	9.95E-10
1	5	Surface	Cadmium	mg/kg	1.20E+00	2.23E-07	8.03E-08	1.44E-10
1	5	Surface	Nickel	mg/kg	4.07E+01	7.56E-06	1.09E-04	4.88E-09
1	5	Surface	PCB, Total	mg/kg	2.70E-01	5.02E-08	2.53E-06	5.50E-08
1	5	Surface	Total PAH	mg/kg	9.83E-02	1.83E-08	8.55E-07	8.75E-10
12	1	Surface	Aluminum	mg/kg	8.19E+03	1.52E-03	2.74E-02	9.82E-07
12	1	Surface	Antimony	mg/kg	5.04E-01	9.37E-08	1.69E-06	6.04E-11
12	1	Surface	Arsenic	mg/kg	1.34E+01	2.49E-06	2.69E-05	1.61E-09
12	1	Surface	Barium	mg/kg	1.04E+02	1.93E-05	3.47E-04	1.24E-08
12	1	Surface	Beryllium	mg/kg	6.72E+00	1.25E-06	3.15E-06	8.06E-10
12	1	Surface	Cadmium	mg/kg	1.02E+00	1.90E-07	6.82E-08	1.22E-10
12	1	Surface	Chromium	mg/kg	6.33E+01	1.18E-05	2.12E-04	7.59E-09
12	1	Surface	Cobalt	mg/kg	9.16E+00	1.70E-06	3.06E-05	1.10E-09
12	1	Surface	Iron	mg/kg	3.01E+04	5.59E-03	1.01E-01	3.60E-06
12	1	Surface	Manganese	mg/kg	1.01E+03	1.88E-04	2.71E-03	1.22E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
12	1	Surface	Mercury	mg/kg	8.80E+00	1.64E-06	2.94E-05	3.17E-05
12	1	Surface	Molybdenum	mg/kg	1.74E+01	3.24E-06	5.83E-05	2.09E-09
12	1	Surface	Nickel	mg/kg	7.74E+01	1.44E-05	2.07E-04	9.28E-09
12	1	Surface	PCB, Total	mg/kg	3.90E-01	7.25E-08	3.65E-06	7.94E-08
12	1	Surface	Silver	mg/kg	1.10E+01	2.05E-06	2.95E-05	1.32E-09
12	1	Surface	Thallium	mg/kg	1.03E+00	1.91E-07	3.45E-06	1.23E-10
12	1	Surface	Total PAH	mg/kg	1.70E-01	3.16E-08	1.48E-06	1.51E-09
12	1	Surface	Uranium	mg/kg	3.76E+02	6.98E-05	1.26E-03	4.50E-08
12	1	Surface	Uranium-234	pCi/g	1.50E+01	2.79E-06		1.80E-09
12	1	Surface	Uranium-235	pCi/g	1.53E+00	2.84E-07		1.83E-10
12	1	Surface	Uranium-238	pCi/g	6.68E+01	1.24E-05		8.01E-09
12	1	Surface	Vanadium	mg/kg	2.80E+01	5.21E-06	4.88E-05	3.36E-09
13	1	Surface	PCB, Total	mg/kg	7.00E-01	1.30E-07	6.56E-06	1.43E-07
13	4	Surface	Uranium-238	pCi/g	1.32E+00	2.45E-07		1.58E-10
13	5	Surface	Aluminum	mg/kg	1.13E+04	2.09E-03	3.77E-02	1.35E-06
13	5	Surface	Antimony	mg/kg	8.20E-01	1.52E-07	2.74E-06	9.83E-11
13	5	Surface	Cadmium	mg/kg	1.20E+00	2.23E-07	8.03E-08	1.44E-10
13	5	Surface	Chromium	mg/kg	1.51E+01	2.81E-06	5.05E-05	1.81E-09
13	5	Surface	Nickel	mg/kg	1.17E+02	2.16E-05	3.12E-04	1.40E-08
13	5	Surface	PCB, Total	mg/kg	1.05E+00	1.95E-07	9.82E-06	2.14E-07
13	5	Surface	Total PAH	mg/kg	6.65E-02	1.24E-08	5.78E-07	5.92E-10
13	5	Surface	Uranium	mg/kg	1.19E+02	2.21E-05	3.98E-04	1.43E-08
13	6	Surface	Uranium-238	pCi/g	1.32E+00	2.45E-07		1.58E-10
13	9	Surface	Neptunium-237	pCi/g	8.90E-01	1.65E-07		1.07E-10
13	9	Surface	Uranium	mg/kg	1.82E+01	3.38E-06	6.09E-05	2.18E-09
13	9	Surface	Uranium-235	pCi/g	3.11E-01	5.78E-08		3.73E-11
13	9	Surface	Uranium-238	pCi/g	6.08E+00	1.13E-06		7.29E-10
13	11	Surface	Cobalt-60	pCi/g	1.30E-02	2.42E-09		1.56E-12
14	1	Surface	Americium-241	pCi/g	1.27E+00	2.35E-07		1.52E-10
14	1	Surface	Arsenic	mg/kg	1.10E+01	2.04E-06	2.20E-05	1.32E-09
14	1	Surface	Chromium	mg/kg	6.36E+01	1.18E-05	2.13E-04	7.62E-09
14	1	Surface	Iron	mg/kg	1.89E+04	3.51E-03	6.31E-02	2.26E-06
14	1	Surface	Neptunium-237	pCi/g	2.14E-01	3.98E-08		2.57E-11
14	1	Surface	Nickel	mg/kg	1.40E+02	2.60E-05	3.74E-04	1.67E-08
14	1	Surface	PCB, Total	mg/kg	5.00E-01	9.29E-08	4.68E-06	1.02E-07
14	1	Surface	Silver	mg/kg	1.67E+01	3.10E-06	4.47E-05	2.00E-09
14	1	Surface	Technetium-99	pCi/g	4.06E+02	7.54E-05		4.87E-08
14	1	Surface	Uranium	mg/kg	7.21E+01	1.34E-05	2.41E-04	8.65E-09
14	1	Surface	Uranium-238	pCi/g	1.69E+00	3.14E-07		2.03E-10
14	2	Surface	Antimony	mg/kg	3.70E+00	6.88E-07	1.24E-05	4.44E-10
14	2	Surface	Arsenic	mg/kg	1.45E+01	2.70E-06	2.92E-05	1.74E-09
14	2	Surface	Beryllium	mg/kg	7.10E-01	1.32E-07	3.32E-07	8.51E-11
14	2	Surface	Chromium	mg/kg	6.65E+01	1.24E-05	2.23E-04	7.98E-09
14	2	Surface	Copper	mg/kg	1.76E+02	3.28E-05	5.90E-04	2.11E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	2	Surface	Iron	mg/kg	3.72E+04	6.91E-03	1.24E-01	4.46E-06
14	2	Surface	Manganese	mg/kg	1.44E+03	2.68E-04	3.86E-03	1.73E-07
14	2	Surface	Mercury	mg/kg	2.67E-01	4.96E-08	8.93E-07	9.60E-07
14	2	Surface	Neptunium-237	pCi/g	7.70E-01	1.43E-07		9.23E-11
14	2	Surface	Nickel	mg/kg	6.78E+02	1.26E-04	1.81E-03	8.13E-08
14	2	Surface	PCB, Total	mg/kg	3.90E-01	7.25E-08	3.65E-06	7.94E-08
14	2	Surface	Thorium-230	pCi/g	5.98E+00	1.11E-06		7.17E-10
14	2	Surface	Total PAH	mg/kg	3.38E-01	6.28E-08	2.94E-06	3.01E-09
14	2	Surface	Uranium	mg/kg	2.93E+02	5.45E-05	9.81E-04	3.52E-08
14	2	Surface	Uranium-234	pCi/g	3.24E+01	6.02E-06		3.88E-09
14	2	Surface	Uranium-235	pCi/g	2.00E+00	3.72E-07		2.40E-10
14	2	Surface	Uranium-238	pCi/g	5.61E+01	1.04E-05		6.73E-09
14	3	Surface	Arsenic	mg/kg	1.30E+01	2.41E-06	2.60E-05	1.56E-09
14	3	Surface	Chromium	mg/kg	7.01E+01	1.30E-05	2.35E-04	8.41E-09
14	3	Surface	Copper	mg/kg	1.29E+02	2.40E-05	4.33E-04	1.55E-08
14	3	Surface	Iron	mg/kg	3.48E+04	6.47E-03	1.16E-01	4.18E-06
14	3	Surface	Manganese	mg/kg	1.06E+03	1.96E-04	2.83E-03	1.27E-07
14	3	Surface	Mercury	mg/kg	7.48E+00	1.39E-06	2.50E-05	2.69E-05
14	3	Surface	Molybdenum	mg/kg	2.21E+01	4.10E-06	7.38E-05	2.65E-09
14	3	Surface	Nickel	mg/kg	5.76E+02	1.07E-04	1.54E-03	6.91E-08
14	3	Surface	PCB, Total	mg/kg	8.65E+00	1.61E-06	8.10E-05	1.76E-06
14	3	Surface	Uranium	mg/kg	2.18E+02	4.05E-05	7.28E-04	2.61E-08
14	3	Surface	Uranium-238	pCi/g	1.50E+00	2.79E-07		1.80E-10
14	4	Surface	Antimony	mg/kg	4.30E+00	7.99E-07	1.44E-05	5.16E-10
14	4	Surface	Arsenic	mg/kg	1.33E+01	2.47E-06	2.67E-05	1.59E-09
14	4	Surface	Chromium	mg/kg	7.20E+01	1.34E-05	2.41E-04	8.64E-09
14	4	Surface	Copper	mg/kg	3.54E+02	6.57E-05	1.18E-03	4.24E-08
14	4	Surface	Iron	mg/kg	3.88E+04	7.22E-03	1.30E-01	4.66E-06
14	4	Surface	Mercury	mg/kg	4.87E-01	9.05E-08	1.63E-06	1.75E-06
14	4	Surface	Neptunium-237	pCi/g	2.68E+00	4.98E-07		3.21E-10
14	4	Surface	Nickel	mg/kg	7.31E+02	1.36E-04	1.95E-03	8.76E-08
14	4	Surface	PCB, Total	mg/kg	6.61E+00	1.23E-06	6.19E-05	1.35E-06
14	4	Surface	Silver	mg/kg	1.17E+01	2.17E-06	3.13E-05	1.40E-09
14	4	Surface	Thorium-230	pCi/g	8.33E+00	1.55E-06		9.99E-10
14	4	Surface	Total PAH	mg/kg	2.51E-01	4.66E-08	2.18E-06	2.23E-09
14	4	Surface	Uranium	mg/kg	3.72E+02	6.91E-05	1.24E-03	4.46E-08
14	4	Surface	Uranium-234	pCi/g	1.13E+02	2.10E-05		1.35E-08
14	4	Surface	Uranium-235	pCi/g	8.00E+00	1.49E-06		9.59E-10
14	4	Surface	Uranium-238	pCi/g	1.69E+02	3.14E-05		2.03E-08
14	5	Surface	Antimony	mg/kg	2.30E+00	4.27E-07	7.69E-06	2.76E-10
14	5	Surface	Arsenic	mg/kg	1.31E+01	2.43E-06	2.63E-05	1.57E-09
14	5	Surface	Cadmium	mg/kg	3.90E+00	7.25E-07	2.61E-07	4.68E-10
14	5	Surface	Chromium	mg/kg	4.70E+01	8.73E-06	1.57E-04	5.63E-09
14	5	Surface	Cobalt	mg/kg	1.40E+01	2.60E-06	4.68E-05	1.68E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	5	Surface	Copper	mg/kg	1.34E+02	2.48E-05	4.47E-04	1.60E-08
14	5	Surface	Iron	mg/kg	3.92E+04	7.28E-03	1.31E-01	4.70E-06
14	5	Surface	Manganese	mg/kg	8.28E+02	1.54E-04	2.21E-03	9.92E-08
14	5	Surface	Mercury	mg/kg	1.09E+01	2.03E-06	3.66E-05	3.94E-05
14	5	Surface	Neptunium-237	pCi/g	1.74E+00	3.23E-07		2.09E-10
14	5	Surface	Nickel	mg/kg	4.61E+02	8.57E-05	1.23E-03	5.53E-08
14	5	Surface	PCB, Total	mg/kg	1.00E+00	1.86E-07	9.37E-06	2.04E-07
14	5	Surface	Silver	mg/kg	1.29E+01	2.39E-06	3.44E-05	1.54E-09
14	5	Surface	Technetium-99	pCi/g	1.01E+02	1.88E-05		1.21E-08
14	5	Surface	Thallium	mg/kg	4.10E-01	7.62E-08	1.37E-06	4.92E-11
14	5	Surface	Thorium-230	pCi/g	1.39E+01	2.58E-06		1.67E-09
14	5	Surface	Total PAH	mg/kg	1.21E-01	2.25E-08	1.05E-06	1.08E-09
14	5	Surface	Uranium	mg/kg	2.62E+02	4.87E-05	8.77E-04	3.14E-08
14	5	Surface	Uranium-234	pCi/g	5.22E+01	9.70E-06		6.26E-09
14	5	Surface	Uranium-235	pCi/g	3.33E+00	6.19E-07		3.99E-10
14	5	Surface	Uranium-238	pCi/g	9.42E+01	1.75E-05		1.13E-08
14	6	Surface	Antimony	mg/kg	2.70E+00	5.02E-07	9.03E-06	3.24E-10
14	6	Surface	Cadmium	mg/kg	8.40E-01	1.56E-07	5.62E-08	1.01E-10
14	6	Surface	Chromium	mg/kg	4.46E+02	8.29E-05	1.49E-03	5.35E-08
14	6	Surface	Copper	mg/kg	1.22E+02	2.27E-05	4.09E-04	1.47E-08
14	6	Surface	Mercury	mg/kg	3.47E-01	6.45E-08	1.16E-06	1.25E-06
14	6	Surface	Neptunium-237	pCi/g	2.65E+00	4.92E-07		3.18E-10
14	6	Surface	Nickel	mg/kg	9.63E+02	1.79E-04	2.58E-03	1.15E-07
14	6	Surface	PCB, Total	mg/kg	5.00E+00	9.29E-07	4.68E-05	1.02E-06
14	6	Surface	Silver	mg/kg	1.19E+01	2.21E-06	3.18E-05	1.42E-09
14	6	Surface	Uranium	mg/kg	5.79E+02	1.08E-04	1.94E-03	6.94E-08
14	6	Surface	Uranium-234	pCi/g	3.41E+01	6.34E-06		4.09E-09
14	6	Surface	Uranium-235	pCi/g	2.27E+00	4.22E-07		2.72E-10
14	6	Surface	Uranium-238	pCi/g	5.08E+01	9.44E-06		6.09E-09
14	7	Surface	Antimony	mg/kg	7.50E-01	1.39E-07	2.51E-06	8.99E-11
14	7	Surface	Arsenic	mg/kg	1.13E+01	2.10E-06	2.27E-05	1.35E-09
14	7	Surface	Cadmium	mg/kg	2.70E+00	5.02E-07	1.81E-07	3.24E-10
14	7	Surface	Chromium	mg/kg	6.46E+01	1.20E-05	2.16E-04	7.74E-09
14	7	Surface	Mercury	mg/kg	7.82E+00	1.45E-06	2.62E-05	2.81E-05
14	7	Surface	Neptunium-237	pCi/g	1.49E+00	2.77E-07		1.79E-10
14	7	Surface	Nickel	mg/kg	1.22E+03	2.27E-04	3.27E-03	1.47E-07
14	7	Surface	PCB, Total	mg/kg	7.60E+00	1.41E-06	7.12E-05	1.55E-06
14	7	Surface	Total PAH	mg/kg	6.31E-02	1.17E-08	5.49E-07	5.62E-10
14	7	Surface	Uranium	mg/kg	3.33E+02	6.19E-05	1.11E-03	3.99E-08
14	7	Surface	Uranium-234	pCi/g	1.28E+01	2.38E-06		1.53E-09
14	7	Surface	Uranium-235	pCi/g	9.60E-01	1.78E-07		1.15E-10
14	7	Surface	Uranium-238	pCi/g	2.13E+01	3.96E-06		2.55E-09
14	8	Surface	Antimony	mg/kg	6.10E-01	1.13E-07	2.04E-06	7.31E-11
14	8	Surface	Arsenic	mg/kg	1.14E+01	2.11E-06	2.28E-05	1.36E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
14	8	Surface	Chromium	mg/kg	4.60E+01	8.55E-06	1.54E-04	5.52E-09
14	8	Surface	Mercury	mg/kg	7.90E+00	1.47E-06	2.64E-05	2.84E-05
14	8	Surface	Neptunium-237	pCi/g	8.80E-01	1.64E-07		1.06E-10
14	8	Surface	Nickel	mg/kg	6.73E+02	1.25E-04	1.80E-03	8.06E-08
14	8	Surface	PCB, Total	mg/kg	5.00E+00	9.29E-07	4.68E-05	1.02E-06
14	8	Surface	Silver	mg/kg	9.63E+00	1.79E-06	2.58E-05	1.15E-09
14	8	Surface	Total PAH	mg/kg	6.28E-02	1.17E-08	5.46E-07	5.59E-10
14	8	Surface	Uranium	mg/kg	3.35E+02	6.23E-05	1.12E-03	4.02E-08
14	8	Surface	Uranium-235	pCi/g	2.38E-01	4.42E-08		2.85E-11
14	8	Surface	Uranium-238	pCi/g	5.92E+00	1.10E-06		7.10E-10
14	9	Surface	Antimony	mg/kg	2.00E+00	3.72E-07	6.69E-06	2.40E-10
14	9	Surface	Arsenic	mg/kg	1.40E+01	2.61E-06	2.82E-05	1.68E-09
14	9	Surface	Cadmium	mg/kg	9.40E-01	1.75E-07	6.29E-08	1.13E-10
14	9	Surface	Cesium-137	pCi/g	4.53E-01	8.42E-08		5.43E-11
14	9	Surface	Chromium	mg/kg	4.64E+01	8.63E-06	1.55E-04	5.57E-09
14	9	Surface	Mercury	mg/kg	1.13E+00	2.10E-07	3.78E-06	4.06E-06
14	9	Surface	Neptunium-237	pCi/g	1.09E+01	2.03E-06		1.31E-09
14	9	Surface	Nickel	mg/kg	9.43E+02	1.75E-04	2.52E-03	1.13E-07
14	9	Surface	PCB, Total	mg/kg	6.84E+00	1.27E-06	6.41E-05	1.39E-06
14	9	Surface	Technetium-99	pCi/g	1.96E+02	3.64E-05		2.35E-08
14	9	Surface	Total PAH	mg/kg	4.87E-01	9.06E-08	4.24E-06	4.34E-09
14	9	Surface	Uranium	mg/kg	1.46E+03	2.72E-04	4.90E-03	1.76E-07
14	9	Surface	Uranium-234	pCi/g	8.32E+02	1.55E-04		9.98E-08
14	9	Surface	Uranium-235	pCi/g	5.46E+01	1.01E-05		6.54E-09
14	9	Surface	Uranium-238	pCi/g	1.20E+03	2.23E-04		1.44E-07
14	10	Surface	Antimony	mg/kg	9.40E-01	1.75E-07	3.14E-06	1.13E-10
14	10	Surface	Arsenic	mg/kg	1.12E+01	2.09E-06	2.26E-05	1.35E-09
14	10	Surface	Chromium	mg/kg	4.19E+01	7.78E-06	1.40E-04	5.02E-09
14	10	Surface	Copper	mg/kg	1.41E+02	2.62E-05	4.72E-04	1.69E-08
14	10	Surface	Iron	mg/kg	2.75E+04	5.10E-03	9.18E-02	3.29E-06
14	10	Surface	Mercury	mg/kg	2.51E+01	4.66E-06	8.39E-05	9.02E-05
14	10	Surface	Neptunium-237	pCi/g	2.64E+00	4.91E-07		3.17E-10
14	10	Surface	Nickel	mg/kg	6.00E+02	1.12E-04	1.61E-03	7.20E-08
14	10	Surface	PCB, Total	mg/kg	9.38E+00	1.74E-06	8.79E-05	1.91E-06
14	10	Surface	Total PAH	mg/kg	2.72E-01	5.05E-08	2.36E-06	2.42E-09
14	10	Surface	Uranium	mg/kg	2.88E+02	5.36E-05	9.65E-04	3.46E-08
14	10	Surface	Uranium-234	pCi/g	2.42E+01	4.50E-06		2.90E-09
14	10	Surface	Uranium-235	pCi/g	1.76E+00	3.27E-07		2.11E-10
14	10	Surface	Uranium-238	pCi/g	4.09E+01	7.60E-06		4.90E-09
15	1	Surface	Antimony	mg/kg	6.40E-01	1.19E-07	2.14E-06	7.67E-11
15	1	Surface	Arsenic	mg/kg	1.24E+01	2.30E-06	2.48E-05	1.48E-09
15	1	Surface	Chromium	mg/kg	5.61E+01	1.04E-05	1.88E-04	6.73E-09
15	1	Surface	Copper	mg/kg	1.95E+02	3.62E-05	6.52E-04	2.34E-08
15	1	Surface	Iron	mg/kg	2.95E+04	5.49E-03	9.88E-02	3.54E-06

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	1	Surface	Nickel	mg/kg	1.33E+02	2.46E-05	3.55E-04	1.59E-08
15	1	Surface	PCB, Total	mg/kg	7.80E-02	1.45E-08	7.31E-07	1.59E-08
15	1	Surface	Silver	mg/kg	1.23E+01	2.28E-06	3.29E-05	1.47E-09
15	1	Surface	Total PAH	mg/kg	1.71E+00	3.19E-07	1.49E-05	1.53E-08
15	1	Surface	Uranium	mg/kg	3.09E+01	5.75E-06	1.03E-04	3.71E-09
15	1	Surface	Uranium-238	pCi/g	1.85E+00	3.44E-07		2.22E-10
15	2	Surface	Antimony	mg/kg	6.60E-01	1.23E-07	2.21E-06	7.91E-11
15	2	Surface	Arsenic	mg/kg	1.63E+01	3.02E-06	3.26E-05	1.95E-09
15	2	Surface	Chromium	mg/kg	5.90E+01	1.10E-05	1.97E-04	7.07E-09
15	2	Surface	Iron	mg/kg	3.89E+04	7.23E-03	1.30E-01	4.66E-06
15	2	Surface	Mercury	mg/kg	9.33E+00	1.73E-06	3.12E-05	3.36E-05
15	2	Surface	Neptunium-237	pCi/g	1.35E-01	2.51E-08		1.62E-11
15	2	Surface	Nickel	mg/kg	1.97E+02	3.67E-05	5.28E-04	2.37E-08
15	2	Surface	PCB, Total	mg/kg	3.30E-01	6.13E-08	3.09E-06	6.72E-08
15	2	Surface	Total PAH	mg/kg	2.11E+00	3.92E-07	1.83E-05	1.88E-08
15	2	Surface	Uranium	mg/kg	1.32E+02	2.45E-05	4.41E-04	1.58E-08
15	2	Surface	Uranium-234	pCi/g	6.51E+00	1.21E-06		7.81E-10
15	2	Surface	Uranium-235	pCi/g	3.80E-01	7.06E-08		4.56E-11
15	2	Surface	Uranium-238	pCi/g	1.21E+01	2.25E-06		1.45E-09
15	3	Surface	Antimony	mg/kg	2.45E+01	4.55E-06	8.20E-05	2.94E-09
15	3	Surface	Arsenic	mg/kg	2.60E+01	4.83E-06	5.22E-05	3.12E-09
15	3	Surface	Beryllium	mg/kg	7.60E-01	1.41E-07	3.56E-07	9.11E-11
15	3	Surface	Cadmium	mg/kg	1.19E+01	2.21E-06	7.96E-07	1.43E-09
15	3	Surface	Chromium	mg/kg	7.53E+01	1.40E-05	2.52E-04	9.03E-09
15	3	Surface	Cobalt	mg/kg	3.41E+01	6.34E-06	1.14E-04	4.09E-09
15	3	Surface	Copper	mg/kg	1.40E+03	2.59E-04	4.67E-03	1.67E-07
15	3	Surface	Iron	mg/kg	9.20E+04	1.71E-02	3.08E-01	1.10E-05
15	3	Surface	Manganese	mg/kg	1.60E+03	2.98E-04	4.29E-03	1.92E-07
15	3	Surface	Mercury	mg/kg	2.74E+00	5.09E-07	9.17E-06	9.86E-06
15	3	Surface	Molybdenum	mg/kg	1.70E+01	3.16E-06	5.69E-05	2.04E-09
15	3	Surface	Neptunium-237	pCi/g	4.10E+00	7.62E-07		4.92E-10
15	3	Surface	Nickel	mg/kg	7.57E+02	1.41E-04	2.02E-03	9.07E-08
15	3	Surface	PCB, Total	mg/kg	6.82E+00	1.27E-06	6.39E-05	1.39E-06
15	3	Surface	Selenium	mg/kg	2.65E+01	4.92E-06	8.85E-05	3.17E-09
15	3	Surface	Silver	mg/kg	3.20E+00	5.95E-07	8.56E-06	3.84E-10
15	3	Surface	Technetium-99	pCi/g	3.67E+02	6.82E-05		4.40E-08
15	3	Surface	Thorium-230	pCi/g	7.23E+00	1.34E-06		8.67E-10
15	3	Surface	Total PAH	mg/kg	1.45E+00	2.70E-07	1.26E-05	1.29E-08
15	3	Surface	Uranium	mg/kg	2.16E+02	4.01E-05	7.23E-04	2.59E-08
15	3	Surface	Uranium-234	pCi/g	6.96E+01	1.29E-05		8.34E-09
15	3	Surface	Uranium-235	pCi/g	4.21E+00	7.82E-07		5.05E-10
15	3	Surface	Uranium-238	pCi/g	9.67E+01	1.80E-05		1.16E-08
15	3	Surface	Zinc	mg/kg	8.79E+02	1.63E-04	2.94E-03	1.05E-07
15	4	Surface	Antimony	mg/kg	7.40E+00	1.38E-06	2.48E-05	8.87E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	4	Surface	Arsenic	mg/kg	3.47E+01	6.44E-06	6.95E-05	4.15E-09
15	4	Surface	Cadmium	mg/kg	1.40E+00	2.60E-07	9.37E-08	1.68E-10
15	4	Surface	Chromium	mg/kg	1.02E+02	1.90E-05	3.42E-04	1.23E-08
15	4	Surface	Copper	mg/kg	7.05E+02	1.31E-04	2.36E-03	8.45E-08
15	4	Surface	Iron	mg/kg	7.81E+04	1.45E-02	2.61E-01	9.36E-06
15	4	Surface	Manganese	mg/kg	1.54E+03	2.85E-04	4.11E-03	1.84E-07
15	4	Surface	Mercury	mg/kg	1.41E+01	2.62E-06	4.71E-05	5.07E-05
15	4	Surface	Neptunium-237	pCi/g	8.00E-01	1.49E-07		9.59E-11
15	4	Surface	Nickel	mg/kg	1.37E+03	2.55E-04	3.68E-03	1.65E-07
15	4	Surface	PCB, Total	mg/kg	2.67E+01	4.97E-06	2.50E-04	5.44E-06
15	4	Surface	Silver	mg/kg	1.46E+01	2.71E-06	3.91E-05	1.75E-09
15	4	Surface	Total PAH	mg/kg	2.44E+00	4.54E-07	2.13E-05	2.18E-08
15	4	Surface	Uranium	mg/kg	1.57E+02	2.91E-05	5.23E-04	1.88E-08
15	4	Surface	Uranium-234	pCi/g	1.07E+01	1.99E-06		1.28E-09
15	4	Surface	Uranium-235	pCi/g	4.30E-01	7.99E-08		5.16E-11
15	4	Surface	Uranium-238	pCi/g	1.87E+01	3.48E-06		2.24E-09
15	4	Surface	Zinc	mg/kg	1.19E+03	2.21E-04	3.98E-03	1.43E-07
15	5	Surface	Antimony	mg/kg	3.10E+00	5.76E-07	1.04E-05	3.72E-10
15	5	Surface	Arsenic	mg/kg	1.28E+01	2.38E-06	2.57E-05	1.53E-09
15	5	Surface	Cadmium	mg/kg	1.50E+00	2.79E-07	1.00E-07	1.80E-10
15	5	Surface	Chromium	mg/kg	4.28E+01	7.95E-06	1.43E-04	5.13E-09
15	5	Surface	Copper	mg/kg	5.63E+03	1.05E-03	1.88E-02	6.75E-07
15	5	Surface	Mercury	mg/kg	3.38E-01	6.28E-08	1.13E-06	1.22E-06
15	5	Surface	Neptunium-237	pCi/g	6.90E-01	1.28E-07		8.27E-11
15	5	Surface	Nickel	mg/kg	5.10E+02	9.48E-05	1.37E-03	6.12E-08
15	5	Surface	PCB, Total	mg/kg	2.51E+01	4.67E-06	2.35E-04	5.12E-06
15	5	Surface	Silver	mg/kg	1.46E+01	2.71E-06	3.91E-05	1.75E-09
15	5	Surface	Technetium-99	pCi/g	1.07E+02	1.99E-05		1.28E-08
15	5	Surface	Total PAH	mg/kg	5.11E-01	9.49E-08	4.44E-06	4.54E-09
15	5	Surface	Uranium	mg/kg	2.13E+02	3.97E-05	7.14E-04	2.56E-08
15	5	Surface	Uranium-234	pCi/g	5.83E+00	1.08E-06		6.99E-10
15	5	Surface	Uranium-235	pCi/g	4.60E-01	8.55E-08		5.52E-11
15	5	Surface	Uranium-238	pCi/g	1.03E+01	1.91E-06		1.23E-09
15	5	Surface	Zinc	mg/kg	1.52E+03	2.83E-04	5.10E-03	1.83E-07
15	6	Surface	Antimony	mg/kg	5.10E+00	9.48E-07	1.71E-05	6.11E-10
15	6	Surface	Arsenic	mg/kg	1.24E+01	2.31E-06	2.49E-05	1.49E-09
15	6	Surface	Cadmium	mg/kg	1.50E+00	2.79E-07	1.00E-07	1.80E-10
15	6	Surface	Chromium	mg/kg	5.80E+01	1.08E-05	1.94E-04	6.95E-09
15	6	Surface	Cobalt	mg/kg	1.62E+01	3.01E-06	5.42E-05	1.94E-09
15	6	Surface	Copper	mg/kg	4.23E+02	7.86E-05	1.41E-03	5.07E-08
15	6	Surface	Iron	mg/kg	3.15E+04	5.85E-03	1.05E-01	3.78E-06
15	6	Surface	Mercury	mg/kg	4.10E-01	7.62E-08	1.37E-06	1.47E-06
15	6	Surface	Neptunium-237	pCi/g	6.40E-01	1.19E-07		7.67E-11
15	6	Surface	Nickel	mg/kg	3.24E+02	6.02E-05	8.67E-04	3.88E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	6	Surface	PCB, Total	mg/kg	6.17E+00	1.15E-06	5.77E-05	1.26E-06
15	6	Surface	Silver	mg/kg	1.09E+01	2.03E-06	2.92E-05	1.31E-09
15	6	Surface	Total PAH	mg/kg	1.62E+00	3.02E-07	1.41E-05	1.44E-08
15	6	Surface	Uranium	mg/kg	6.70E+01	1.25E-05	2.24E-04	8.04E-09
15	6	Surface	Uranium-234	pCi/g	8.74E+00	1.62E-06		1.05E-09
15	6	Surface	Uranium-235	pCi/g	5.70E-01	1.06E-07		6.83E-11
15	6	Surface	Uranium-238	pCi/g	1.54E+01	2.86E-06		1.85E-09
15	7	Surface	Antimony	mg/kg	7.50E-01	1.39E-07	2.51E-06	8.99E-11
15	7	Surface	Arsenic	mg/kg	1.61E+01	2.99E-06	3.23E-05	1.93E-09
15	7	Surface	Cadmium	mg/kg	1.00E+00	1.86E-07	6.69E-08	1.20E-10
15	7	Surface	Chromium	mg/kg	7.87E+01	1.46E-05	2.63E-04	9.44E-09
15	7	Surface	Copper	mg/kg	7.33E+02	1.36E-04	2.45E-03	8.79E-08
15	7	Surface	Iron	mg/kg	3.42E+04	6.36E-03	1.14E-01	4.10E-06
15	7	Surface	Manganese	mg/kg	1.11E+03	2.05E-04	2.96E-03	1.32E-07
15	7	Surface	Neptunium-237	pCi/g	2.23E-01	4.14E-08		2.67E-11
15	7	Surface	Nickel	mg/kg	5.59E+02	1.04E-04	1.49E-03	6.70E-08
15	7	Surface	PCB, Total	mg/kg	2.57E+01	4.77E-06	2.40E-04	5.23E-06
15	7	Surface	Silver	mg/kg	1.29E+01	2.39E-06	3.44E-05	1.54E-09
15	7	Surface	Total PAH	mg/kg	1.59E-01	2.95E-08	1.38E-06	1.41E-09
15	7	Surface	Uranium	mg/kg	5.39E+01	1.00E-05	1.80E-04	6.46E-09
15	7	Surface	Uranium-234	pCi/g	6.49E+00	1.21E-06		7.78E-10
15	7	Surface	Uranium-235	pCi/g	4.50E-01	8.36E-08		5.40E-11
15	7	Surface	Uranium-238	pCi/g	8.05E+00	1.50E-06		9.65E-10
15	7	Surface	Zinc	mg/kg	5.87E+02	1.09E-04	1.96E-03	7.04E-08
15	8	Surface	Antimony	mg/kg	5.40E+00	1.00E-06	1.81E-05	6.47E-10
15	8	Surface	Arsenic	mg/kg	1.17E+01	2.16E-06	2.34E-05	1.40E-09
15	8	Surface	Chromium	mg/kg	7.74E+01	1.44E-05	2.59E-04	9.28E-09
15	8	Surface	Copper	mg/kg	1.62E+02	3.01E-05	5.41E-04	1.94E-08
15	8	Surface	Iron	mg/kg	2.83E+04	5.25E-03	9.45E-02	3.39E-06
15	8	Surface	Mercury	mg/kg	1.00E+01	1.87E-06	3.36E-05	3.61E-05
15	8	Surface	Neptunium-237	pCi/g	3.65E-01	6.78E-08		4.38E-11
15	8	Surface	Nickel	mg/kg	1.82E+02	3.38E-05	4.86E-04	2.18E-08
15	8	Surface	PCB, Total	mg/kg	4.90E+00	9.11E-07	4.59E-05	9.98E-07
15	8	Surface	Silver	mg/kg	1.36E+01	2.52E-06	3.63E-05	1.62E-09
15	8	Surface	Total PAH	mg/kg	3.59E-01	6.67E-08	3.12E-06	3.19E-09
15	8	Surface	Uranium	mg/kg	4.46E+01	8.28E-06	1.49E-04	5.34E-09
15	8	Surface	Uranium-235	pCi/g	3.04E-01	5.65E-08		3.64E-11
15	8	Surface	Uranium-238	pCi/g	6.64E+00	1.23E-06		7.96E-10
15	9	Surface	Arsenic	mg/kg	1.10E+01	2.05E-06	2.22E-05	1.32E-09
15	9	Surface	Chromium	mg/kg	9.56E+01	1.78E-05	3.20E-04	1.15E-08
15	9	Surface	Copper	mg/kg	1.36E+02	2.52E-05	4.54E-04	1.63E-08
15	9	Surface	Iron	mg/kg	2.76E+04	5.13E-03	9.23E-02	3.31E-06
15	9	Surface	Neptunium-237	pCi/g	1.28E-01	2.38E-08		1.53E-11
15	9	Surface	Nickel	mg/kg	1.49E+02	2.77E-05	3.98E-04	1.79E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
15	9	Surface	PCB, Total	mg/kg	3.30E-01	6.13E-08	3.09E-06	6.72E-08
15	9	Surface	Silver	mg/kg	1.54E+01	2.87E-06	4.13E-05	1.85E-09
15	9	Surface	Total PAH	mg/kg	2.38E-01	4.43E-08	2.07E-06	2.12E-09
15	9	Surface	Uranium	mg/kg	3.07E+01	5.70E-06	1.03E-04	3.68E-09
15	9	Surface	Uranium-235	pCi/g	2.42E-01	4.50E-08		2.90E-11
15	9	Surface	Uranium-238	pCi/g	7.12E+00	1.32E-06		8.54E-10
15	10	Surface	Chromium	mg/kg	3.55E+01	6.60E-06	1.19E-04	4.26E-09
15	10	Surface	Mercury	mg/kg	7.84E+00	1.46E-06	2.62E-05	2.82E-05
15	10	Surface	Nickel	mg/kg	1.46E+02	2.71E-05	3.90E-04	1.75E-08
15	10	Surface	Silver	mg/kg	1.08E+01	2.01E-06	2.89E-05	1.30E-09
15	10	Surface	Total PAH	mg/kg	1.28E-01	2.39E-08	1.12E-06	1.14E-09
15	10	Surface	Uranium	mg/kg	6.47E+01	1.20E-05	2.17E-04	7.76E-09
16	1	Surface	Cesium-137	pCi/g	1.10E+00	2.04E-07		1.32E-10
16	1	Surface	PCB, Total	mg/kg	9.60E-02	1.78E-08	8.99E-07	1.95E-08
16	1	Surface	Total PAH	mg/kg	2.72E-02	5.05E-09	2.37E-07	2.42E-10
16	2	Surface	Beryllium	mg/kg	8.40E-01	1.56E-07	3.93E-07	1.01E-10
16	2	Surface	Chromium	mg/kg	2.04E+01	3.79E-06	6.82E-05	2.45E-09
16	2	Surface	Nickel	mg/kg	2.16E+01	4.01E-06	5.78E-05	2.59E-09
16	3	Surface	PCB, Total	mg/kg	9.49E-01	1.76E-07	8.89E-06	1.93E-07
16	4	Surface	Cesium-137	pCi/g	3.66E+01	6.80E-06		4.39E-09
16	4	Surface	Cobalt-60	pCi/g	8.53E-03	1.59E-09		1.02E-12
16	4	Surface	Neptunium-237	pCi/g	7.12E+00	1.32E-06		8.54E-10
16	4	Surface	PCB, Total	mg/kg	3.20E-01	5.95E-08	3.00E-06	6.51E-08
16	4	Surface	Technetium-99	pCi/g	2.96E+02	5.50E-05		3.55E-08
16	4	Surface	Thorium-230	pCi/g	5.29E+00	9.83E-07		6.34E-10
16	4	Surface	Total PAH	mg/kg	2.93E+00	5.44E-07	2.55E-05	2.61E-08
16	4	Surface	Uranium-234	pCi/g	1.19E+02	2.21E-05		1.43E-08
16	4	Surface	Uranium-235	pCi/g	8.23E+00	1.53E-06		9.87E-10
16	4	Surface	Uranium-238	pCi/g	2.70E+02	5.02E-05		3.24E-08
19	1	Surface	Beryllium	mg/kg	1.10E+00	2.04E-07	5.15E-07	1.32E-10
19	1	Surface	Cadmium	mg/kg	1.20E+00	2.23E-07	8.03E-08	1.44E-10
19	1	Surface	Thallium	mg/kg	9.80E-01	1.82E-07	3.28E-06	1.17E-10
19	1	Surface	Total PAH	mg/kg	5.23E+00	9.71E-07	4.55E-05	4.65E-08
26	1	Surface	Arsenic	mg/kg	1.29E+01	2.39E-06	2.59E-05	1.54E-09
26	1	Surface	Beryllium	mg/kg	6.69E-01	1.24E-07	3.13E-07	8.02E-11
26	1	Surface	Cadmium	mg/kg	1.99E+00	3.70E-07	1.33E-07	2.39E-10
26	1	Surface	Cesium-137	pCi/g	3.16E+00	5.88E-07		3.79E-10
26	1	Surface	Chromium	mg/kg	1.90E+01	3.53E-06	6.36E-05	2.28E-09
26	1	Surface	Cobalt-60	pCi/g	1.93E-03	3.59E-10		2.31E-13
26	1	Surface	Mercury	mg/kg	1.66E-01	3.08E-08	5.55E-07	5.97E-07
26	1	Surface	Neptunium-237	pCi/g	2.61E-01	4.85E-08		3.13E-11
26	1	Surface	Nickel	mg/kg	1.76E+01	3.27E-06	4.71E-05	2.11E-09
26	1	Surface	PCB, Total	mg/kg	9.33E-01	1.73E-07	8.74E-06	1.90E-07
26	1	Surface	Plutonium-239/240	pCi/g	4.04E+00	7.50E-07		4.84E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
26	1	Surface	Thorium-230	pCi/g	3.82E+00	7.09E-07		4.58E-10
26	1	Surface	Total PAH	mg/kg	5.00E-02	9.29E-09	4.35E-07	4.45E-10
26	1	Surface	Uranium	mg/kg	1.29E+02	2.39E-05	4.31E-04	1.54E-08
26	1	Surface	Uranium-234	pCi/g	4.67E+00	8.67E-07		5.59E-10
26	1	Surface	Uranium-235	pCi/g	6.41E-01	1.19E-07		7.69E-11
26	1	Surface	Uranium-238	pCi/g	3.47E+01	6.44E-06		4.16E-09
26	2	Surface	Aluminum	mg/kg	2.17E+04	4.02E-03	7.24E-02	2.60E-06
26	2	Surface	Arsenic	mg/kg	4.72E+01	8.77E-06	9.48E-05	5.66E-09
26	2	Surface	Barium	mg/kg	1.49E+02	2.76E-05	4.97E-04	1.78E-08
26	2	Surface	Beryllium	mg/kg	9.69E+00	1.80E-06	4.54E-06	1.16E-09
26	2	Surface	Cadmium	mg/kg	2.38E+00	4.42E-07	1.59E-07	2.85E-10
26	2	Surface	Cesium-137	pCi/g	5.92E+00	1.10E-06		7.10E-10
26	2	Surface	Chromium	mg/kg	3.90E+01	7.25E-06	1.30E-04	4.68E-09
26	2	Surface	Cobalt	mg/kg	5.20E+01	9.66E-06	1.74E-04	6.23E-09
26	2	Surface	Copper	mg/kg	1.31E+02	2.43E-05	4.38E-04	1.57E-08
26	2	Surface	Iron	mg/kg	5.32E+04	9.88E-03	1.78E-01	6.38E-06
26	2	Surface	Neptunium-237	pCi/g	7.89E-01	1.47E-07		9.46E-11
26	2	Surface	Nickel	mg/kg	1.13E+02	2.10E-05	3.03E-04	1.36E-08
26	2	Surface	PCB, Total	mg/kg	2.23E+00	4.14E-07	2.09E-05	4.54E-07
26	2	Surface	Thallium	mg/kg	1.39E+01	2.58E-06	4.65E-05	1.67E-09
26	2	Surface	Thorium-230	pCi/g	1.51E+01	2.81E-06		1.81E-09
26	2	Surface	Uranium	mg/kg	6.46E+02	1.20E-04	2.16E-03	7.75E-08
26	2	Surface	Uranium-234	pCi/g	1.91E+01	3.54E-06		2.29E-09
26	2	Surface	Uranium-235	pCi/g	1.71E+00	3.17E-07		2.05E-10
26	2	Surface	Uranium-238	pCi/g	5.14E+01	9.56E-06		6.17E-09
26	2	Surface	Vanadium	mg/kg	3.13E+01	5.81E-06	5.44E-05	3.75E-09
26	3	Surface	Aluminum	mg/kg	9.55E+03	1.77E-03	3.19E-02	1.14E-06
26	3	Surface	Antimony	mg/kg	1.40E+00	2.60E-07	4.68E-06	1.68E-10
26	3	Surface	Arsenic	mg/kg	5.09E+01	9.46E-06	1.02E-04	6.10E-09
26	3	Surface	Barium	mg/kg	4.48E+02	8.32E-05	1.50E-03	5.37E-08
26	3	Surface	Beryllium	mg/kg	2.54E+00	4.71E-07	1.19E-06	3.04E-10
26	3	Surface	Cadmium	mg/kg	2.34E+00	4.35E-07	1.57E-07	2.81E-10
26	3	Surface	Cesium-137	pCi/g	7.48E-01	1.39E-07		8.97E-11
26	3	Surface	Chromium	mg/kg	3.25E+01	6.05E-06	1.09E-04	3.90E-09
26	3	Surface	Cobalt	mg/kg	1.21E+01	2.25E-06	4.05E-05	1.45E-09
26	3	Surface	Mercury	mg/kg	3.87E-01	7.19E-08	1.29E-06	1.39E-06
26	3	Surface	Naphthalene	mg/kg	1.32E+00	2.45E-07	2.21E-05	5.31E-06
26	3	Surface	Neptunium-237	pCi/g	7.53E-01	1.40E-07		9.03E-11
26	3	Surface	Nickel	mg/kg	2.97E+01	5.52E-06	7.95E-05	3.56E-09
26	3	Surface	PCB, Total	mg/kg	2.52E+00	4.68E-07	2.36E-05	5.13E-07
26	3	Surface	Silver	mg/kg	2.59E+01	4.81E-06	6.93E-05	3.11E-09
26	3	Surface	Technetium-99	pCi/g	6.48E+01	1.20E-05		7.76E-09
26	3	Surface	Thallium	mg/kg	6.00E-01	1.12E-07	2.01E-06	7.19E-11
26	3	Surface	Thorium-230	pCi/g	7.10E+00	1.32E-06		8.51E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
26	3	Surface	Total PAH	mg/kg	1.19E+00	2.21E-07	1.03E-05	1.06E-08
26	3	Surface	Uranium	mg/kg	9.88E+01	1.84E-05	3.30E-04	1.18E-08
26	3	Surface	Uranium-234	pCi/g	4.63E+01	8.61E-06		5.56E-09
26	3	Surface	Uranium-235	pCi/g	1.69E+00	3.14E-07		2.03E-10
26	3	Surface	Uranium-238	pCi/g	5.19E+01	9.64E-06		6.22E-09
26	3	Surface	Vanadium	mg/kg	3.77E+01	7.00E-06	6.55E-05	4.52E-09
26	4	Surface	Aluminum	mg/kg	1.07E+04	1.98E-03	3.57E-02	1.28E-06
26	4	Surface	Americium-241	pCi/g	1.27E+00	2.37E-07		1.53E-10
26	4	Surface	Antimony	mg/kg	6.00E-01	1.12E-07	2.01E-06	7.19E-11
26	4	Surface	Beryllium	mg/kg	6.91E-01	1.28E-07	3.24E-07	8.28E-11
26	4	Surface	Cadmium	mg/kg	1.99E+00	3.70E-07	1.33E-07	2.39E-10
26	4	Surface	Cesium-137	pCi/g	6.38E-01	1.19E-07		7.65E-11
26	4	Surface	Chromium	mg/kg	8.57E+01	1.59E-05	2.87E-04	1.03E-08
26	4	Surface	Cobalt-60	pCi/g	1.21E-03	2.25E-10		1.45E-13
26	4	Surface	Copper	mg/kg	1.16E+02	2.15E-05	3.87E-04	1.39E-08
26	4	Surface	Mercury	mg/kg	3.07E+00	5.71E-07	1.03E-05	1.10E-05
26	4	Surface	Neptunium-237	pCi/g	1.36E+01	2.52E-06		1.63E-09
26	4	Surface	Nickel	mg/kg	7.54E+01	1.40E-05	2.02E-04	9.04E-09
26	4	Surface	PCB, Total	mg/kg	5.54E-01	1.03E-07	5.19E-06	1.13E-07
26	4	Surface	Plutonium-239/240	pCi/g	5.00E+00	9.30E-07		6.00E-10
26	4	Surface	Technetium-99	pCi/g	5.97E+02	1.11E-04		7.16E-08
26	4	Surface	Thorium-230	pCi/g	3.26E+01	6.06E-06		3.91E-09
26	4	Surface	Total PAH	mg/kg	2.83E-02	5.26E-09	2.46E-07	2.52E-10
26	4	Surface	Uranium	mg/kg	9.75E+02	1.81E-04	3.26E-03	1.17E-07
26	4	Surface	Uranium-234	pCi/g	1.54E+02	2.87E-05		1.85E-08
26	4	Surface	Uranium-235	pCi/g	8.80E+00	1.64E-06		1.06E-09
26	4	Surface	Uranium-235	pCi/g	3.19E+01	5.93E-06		3.82E-09
26	4	Surface	Uranium-238	pCi/g				
47	1	Surface	Aluminum	mg/kg	1.50E+04	2.79E-03	5.02E-02	1.80E-06
47	1	Surface	Antimony	mg/kg	9.00E-01	1.67E-07	3.01E-06	1.08E-10
47	1	Surface	Arsenic	mg/kg	4.52E+01	8.40E-06	9.07E-05	5.42E-09
47	1	Surface	Beryllium	mg/kg	7.00E-01	1.30E-07	3.28E-07	8.39E-11
47	1	Surface	Cadmium	mg/kg	4.25E+00	7.90E-07	2.84E-07	5.10E-10
47	1	Surface	Chromium	mg/kg	5.39E+01	1.00E-05	1.80E-04	6.46E-09
47	1	Surface	Cobalt	mg/kg	1.43E+01	2.66E-06	4.78E-05	1.71E-09
47	1	Surface	Iron	mg/kg	2.95E+04	5.48E-03	9.87E-02	3.54E-06
47	1	Surface	Naphthalene	mg/kg	1.90E+00	3.53E-07	3.18E-05	7.65E-06
47	1	Surface	Neptunium-237	pCi/g	1.15E-01	2.14E-08		1.38E-11
47	1	Surface	Nickel	mg/kg	8.25E+01	1.53E-05	2.21E-04	9.89E-09
47	1	Surface	PCB, Total	mg/kg	9.60E-01	1.78E-07	8.99E-06	1.95E-07
47	1	Surface	Plutonium-239/240	pCi/g	4.11E+00	7.64E-07		4.93E-10
47	1	Surface	Pyrene	mg/kg	1.11E+02	2.06E-05	9.62E-04	8.76E-06
47	1	Surface	Thorium-230	pCi/g	4.11E+01	7.64E-06		4.93E-09
47	1	Surface	Total PAH	mg/kg	5.41E+01	1.00E-05	4.70E-04	4.81E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
47	1	Surface	Uranium	mg/kg	3.23E+01	6.01E-06	1.08E-04	3.87E-09
47	1	Surface	Uranium-234	pCi/g	6.85E+00	1.27E-06		8.21E-10
47	1	Surface	Uranium-235	pCi/g	5.00E-01	9.29E-08		5.99E-11
47	1	Surface	Uranium-238	pCi/g	7.93E+00	1.47E-06		9.51E-10
74	1	Surface	PCB, Total	mg/kg	2.97E+00	5.53E-07	2.79E-05	6.06E-07
74	1	Surface	Total PAH	mg/kg	3.16E+00	5.88E-07	2.75E-05	2.81E-08
74	1	Surface	Uranium-234	pCi/g	7.55E+00	1.40E-06		9.05E-10
74	1	Surface	Uranium-238	pCi/g	3.85E+01	7.15E-06		4.62E-09
75	1	Surface	Cadmium	mg/kg	1.10E+00	2.04E-07	7.36E-08	1.32E-10
75	1	Surface	Chromium	mg/kg	7.17E+01	1.33E-05	2.40E-04	8.60E-09
75	1	Surface	Copper	mg/kg	3.15E+02	5.85E-05	1.05E-03	3.78E-08
75	1	Surface	Nickel	mg/kg	8.87E+01	1.65E-05	2.37E-04	1.06E-08
75	1	Surface	PCB, Total	mg/kg	2.30E-01	4.27E-08	2.15E-06	4.68E-08
75	1	Surface	Total PAH	mg/kg	2.21E-01	4.11E-08	1.93E-06	1.97E-09
76	1	Surface	Barium	mg/kg	2.69E+02	5.00E-05	9.00E-04	3.23E-08
76	1	Surface	PCB, Total	mg/kg	2.60E-01	4.83E-08	2.44E-06	5.29E-08
76	1	Surface	Total PAH	mg/kg	1.76E+00	3.27E-07	1.53E-05	1.56E-08
76	1	Surface	Uranium-238	pCi/g	1.45E+00	2.69E-07		1.74E-10
78	1	Surface	Cadmium	mg/kg	2.36E+00	4.39E-07	1.58E-07	2.83E-10
78	1	Surface	Chromium	mg/kg	3.75E+01	6.97E-06	1.25E-04	4.50E-09
78	1	Surface	Cobalt-60	pCi/g	5.91E-03	1.10E-09		7.09E-13
78	1	Surface	Naphthalene	mg/kg	1.60E+01	2.97E-06	2.68E-04	6.44E-05
78	1	Surface	Nickel	mg/kg	2.15E+01	4.00E-06	5.75E-05	2.58E-09
78	1	Surface	PCB, Total	mg/kg	1.20E+01	2.23E-06	1.12E-04	2.44E-06
78	1	Surface	Total PAH	mg/kg	3.91E+01	7.27E-06	3.40E-04	3.48E-07
78	1	Surface	Uranium-235	pCi/g	2.64E-01	4.91E-08		3.17E-11
78	1	Surface	Uranium-238	pCi/g	5.29E+00	9.83E-07		6.34E-10
80	1	Surface	Americium-241	pCi/g	6.40E+00	1.19E-06		7.67E-10
80	1	Surface	Antimony	mg/kg	9.10E-01	1.69E-07	3.04E-06	1.09E-10
80	1	Surface	Beryllium	mg/kg	7.80E-01	1.45E-07	3.65E-07	9.35E-11
80	1	Surface	Chromium	mg/kg	1.65E+02	3.07E-05	5.52E-04	1.98E-08
80	1	Surface	Mercury	mg/kg	4.50E-01	8.36E-08	1.51E-06	1.62E-06
80	1	Surface	Neptunium-237	pCi/g	5.05E-01	9.38E-08		6.05E-11
80	1	Surface	PCB, Total	mg/kg	1.46E+01	2.72E-06	1.37E-04	2.98E-06
80	1	Surface	Thorium-230	pCi/g	4.40E+00	8.18E-07		5.28E-10
80	1	Surface	Total PAH	mg/kg	1.42E-01	2.63E-08	1.23E-06	1.26E-09
80	1	Surface	Uranium	mg/kg	5.72E+03	1.06E-03	1.91E-02	6.86E-07
80	1	Surface	Uranium-234	pCi/g	2.29E+02	4.26E-05		2.75E-08
80	1	Surface	Uranium-235	pCi/g	3.00E+01	5.58E-06		3.60E-09
80	1	Surface	Uranium-238	pCi/g	1.92E+03	3.57E-04		2.30E-07
81	1	Surface	Aluminum	mg/kg	9.57E+03	1.78E-03	3.20E-02	1.15E-06
81	1	Surface	Arsenic	mg/kg	1.03E+01	1.90E-06	2.06E-05	1.23E-09
81	1	Surface	Beryllium	mg/kg	7.57E-01	1.41E-07	3.55E-07	9.08E-11
81	1	Surface	Chromium	mg/kg	8.62E+01	1.60E-05	2.88E-04	1.03E-08

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
81	1	Surface	Mercury	mg/kg	8.33E+00	1.55E-06	2.79E-05	3.00E-05
81	1	Surface	Nickel	mg/kg	7.29E+01	1.35E-05	1.95E-04	8.74E-09
81	1	Surface	PCB, Total	mg/kg	1.60E+02	2.97E-05	1.50E-03	3.25E-05
81	1	Surface	Silver	mg/kg	2.70E+00	5.02E-07	7.23E-06	3.24E-10
81	1	Surface	Total PAH	mg/kg	5.53E-01	1.03E-07	4.81E-06	4.92E-09
81	1	Surface	Uranium	mg/kg	6.50E+03	1.21E-03	2.17E-02	7.79E-07
81	1	Surface	Uranium-238	pCi/g	2.29E+00	4.25E-07		2.74E-10
99	1	Surface	Chromium	mg/kg	5.51E+01	1.02E-05	1.84E-04	6.61E-09
99	1	Surface	Cobalt-60	pCi/g	1.19E-02	2.21E-09		1.43E-12
99	1	Surface	Mercury	mg/kg	9.53E+00	1.77E-06	3.19E-05	3.43E-05
99	1	Surface	Nickel	mg/kg	7.02E+01	1.30E-05	1.88E-04	8.42E-09
99	1	Surface	Silver	mg/kg	1.03E+01	1.91E-06	2.76E-05	1.23E-09
99	1	Surface	Uranium-238	pCi/g	9.45E-01	1.76E-07		1.13E-10
138	1	Surface	Antimony	mg/kg	5.39E+00	1.00E-06	1.80E-05	6.47E-10
138	1	Surface	Arsenic	mg/kg	1.06E+01	1.97E-06	2.13E-05	1.27E-09
138	1	Surface	Cadmium	mg/kg	5.42E+00	1.01E-06	3.63E-07	6.50E-10
138	1	Surface	Chromium	mg/kg	5.39E+01	1.00E-05	1.80E-04	6.46E-09
138	1	Surface	Mercury	mg/kg	1.30E+01	2.41E-06	4.35E-05	4.67E-05
138	1	Surface	Nickel	mg/kg	7.04E+01	1.31E-05	1.88E-04	8.44E-09
138	1	Surface	PCB, Total	mg/kg	5.00E-01	9.29E-08	4.68E-06	1.02E-07
138	1	Surface	Silver	mg/kg	1.01E+01	1.88E-06	2.70E-05	1.21E-09
138	1	Surface	Total PAH	mg/kg	9.74E-02	1.81E-08	8.47E-07	8.67E-10
138	2	Surface	Nickel	mg/kg	7.99E+01	1.48E-05	2.14E-04	9.57E-09
138	2	Surface	PCB, Total	mg/kg	9.20E-02	1.71E-08	8.62E-07	1.87E-08
138	2	Surface	Silver	mg/kg	1.04E+01	1.94E-06	2.79E-05	1.25E-09
138	2	Surface	Total PAH	mg/kg	3.84E-02	7.14E-09	3.34E-07	3.42E-10
153	1	Surface	PCB, Total	mg/kg	5.09E-01	9.46E-08	4.77E-06	1.04E-07
153	1	Surface	Total PAH	mg/kg	8.69E-02	1.62E-08	7.56E-07	7.73E-10
154	1	Surface	Arsenic	mg/kg	1.52E+01	2.82E-06	3.04E-05	1.82E-09
154	1	Surface	Chromium	mg/kg	4.28E+01	7.95E-06	1.43E-04	5.13E-09
154	1	Surface	Nickel	mg/kg	9.89E+01	1.84E-05	2.65E-04	1.19E-08
154	1	Surface	PCB, Total	mg/kg	3.20E+00	5.95E-07	3.00E-05	6.51E-07
154	1	Surface	Total PAH	mg/kg	1.04E+00	1.93E-07	9.05E-06	9.26E-09
154	1	Surface	Uranium	mg/kg	3.82E+01	7.10E-06	1.28E-04	4.58E-09
154	1	Surface	Uranium-238	pCi/g	3.06E+00	5.69E-07		3.67E-10
154	2	Surface	PCB, Total	mg/kg	4.00E-01	7.43E-08	3.75E-06	8.14E-08
155	1	Surface	Antimony	mg/kg	3.65E+00	6.79E-07	1.22E-05	4.38E-10
155	1	Surface	Chromium	mg/kg	3.47E+01	6.45E-06	1.16E-04	4.16E-09
155	1	Surface	Neptunium-237	pCi/g	1.03E-01	1.91E-08		1.23E-11
155	1	Surface	Nickel	mg/kg	7.65E+01	1.42E-05	2.05E-04	9.17E-09
155	1	Surface	PCB, Total	mg/kg	9.20E+00	1.71E-06	8.61E-05	1.87E-06
155	1	Surface	Silver	mg/kg	1.11E+01	2.06E-06	2.97E-05	1.33E-09
156	1	Surface	Chromium	mg/kg	4.90E+01	9.11E-06	1.64E-04	5.88E-09
156	1	Surface	Manganese	mg/kg	2.83E+03	5.26E-04	7.58E-03	3.40E-07

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
156	1	Surface	Mercury	mg/kg	9.87E+00	1.83E-06	3.30E-05	3.55E-05
156	1	Surface	Nickel	mg/kg	6.16E+01	1.14E-05	1.65E-04	7.39E-09
156	1	Surface	PCB, Total	mg/kg	3.00E-01	5.58E-08	2.81E-06	6.11E-08
156	1	Surface	Total PAH	mg/kg	8.26E-02	1.54E-08	7.18E-07	7.35E-10
156	1	Surface	Uranium	mg/kg	2.32E+01	4.31E-06	7.76E-05	2.78E-09
156	1	Surface	Uranium-238	pCi/g	2.19E+00	4.07E-07		2.63E-10
158	1	Surface	Antimony	mg/kg	5.23E-01	9.72E-08	1.75E-06	6.27E-11
158	1	Surface	Arsenic	mg/kg	1.01E+01	1.88E-06	2.03E-05	1.21E-09
158	1	Surface	Barium	mg/kg	2.19E+02	4.06E-05	7.32E-04	2.62E-08
158	1	Surface	Chromium	mg/kg	6.07E+01	1.13E-05	2.03E-04	7.28E-09
158	1	Surface	Cobalt	mg/kg	1.62E+01	3.01E-06	5.43E-05	1.94E-09
158	1	Surface	Manganese	mg/kg	9.91E+02	1.84E-04	2.65E-03	1.19E-07
158	1	Surface	Mercury	mg/kg	1.05E+01	1.94E-06	3.50E-05	3.76E-05
158	1	Surface	Nickel	mg/kg	7.28E+01	1.35E-05	1.95E-04	8.73E-09
158	1	Surface	Thallium	mg/kg	3.12E-01	5.80E-08	1.04E-06	3.74E-11
158	1	Surface	Total PAH	mg/kg	3.69E-01	6.86E-08	3.21E-06	3.28E-09
158	1	Surface	Uranium	mg/kg	2.03E+01	3.77E-06	6.79E-05	2.43E-09
158	1	Surface	Uranium-235	pCi/g	1.63E-01	3.03E-08		1.95E-11
158	1	Surface	Uranium-238	pCi/g	3.79E+00	7.04E-07		4.54E-10
160	1	Surface	Antimony	mg/kg	6.80E-01	1.26E-07	2.27E-06	8.15E-11
160	1	Surface	Total PAH	mg/kg	5.29E-02	9.83E-09	4.60E-07	4.71E-10
163	1	Surface	Chromium	mg/kg	4.94E+01	9.19E-06	1.65E-04	5.93E-09
163	1	Surface	Total PAH	mg/kg	1.63E-01	3.03E-08	1.42E-06	1.45E-09
165	1	Surface	Antimony	mg/kg	2.20E+00	4.09E-07	7.36E-06	2.64E-10
165	1	Surface	Arsenic	mg/kg	6.35E+01	1.18E-05	1.27E-04	7.61E-09
165	1	Surface	Barium	mg/kg	5.84E+02	1.09E-04	1.95E-03	7.01E-08
165	1	Surface	Beryllium	mg/kg	6.82E-01	1.27E-07	3.19E-07	8.18E-11
165	1	Surface	Cesium-137	pCi/g	3.47E+00	6.45E-07		4.16E-10
165	1	Surface	Chromium	mg/kg	3.74E+01	6.95E-06	1.25E-04	4.48E-09
165	1	Surface	Mercury	mg/kg	3.78E-01	7.02E-08	1.26E-06	1.36E-06
165	1	Surface	Naphthalene	mg/kg	1.61E+00	2.99E-07	2.69E-05	6.48E-06
165	1	Surface	Neptunium-237	pCi/g	4.26E-01	7.92E-08		5.11E-11
165	1	Surface	Nickel	mg/kg	3.47E+01	6.45E-06	9.28E-05	4.16E-09
165	1	Surface	PCB, Total	mg/kg	8.27E+00	1.54E-06	7.74E-05	1.68E-06
165	1	Surface	Plutonium-239/240	pCi/g	2.81E+00	5.21E-07		3.36E-10
165	1	Surface	Silver	mg/kg	3.09E+01	5.75E-06	8.28E-05	3.71E-09
165	1	Surface	Thorium-230	pCi/g	6.02E+00	1.12E-06		7.21E-10
165	1	Surface	Total PAH	mg/kg	1.87E+00	3.47E-07	1.62E-05	1.66E-08
165	1	Surface	Uranium	mg/kg	1.08E+02	2.00E-05	3.60E-04	1.29E-08
165	1	Surface	Uranium-234	pCi/g	5.76E+01	1.07E-05		6.90E-09
165	1	Surface	Uranium-235	pCi/g	2.05E+00	3.80E-07		2.45E-10
165	1	Surface	Uranium-238	pCi/g	6.41E+01	1.19E-05		7.68E-09
169	1	Surface	Aluminum	mg/kg	1.42E+04	2.64E-03	4.75E-02	1.70E-06
169	1	Surface	Antimony	mg/kg	1.30E+00	2.42E-07	4.35E-06	1.56E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
169	1	Surface	Arsenic	mg/kg	2.03E+01	3.77E-06	4.07E-05	2.43E-09
169	1	Surface	Beryllium	mg/kg	8.00E-01	1.49E-07	3.75E-07	9.59E-11
169	1	Surface	Chromium	mg/kg	2.15E+02	3.99E-05	7.19E-04	2.58E-08
169	1	Surface	Copper	mg/kg	3.74E+02	6.96E-05	1.25E-03	4.49E-08
169	1	Surface	Iron	mg/kg	4.16E+04	7.72E-03	1.39E-01	4.98E-06
169	1	Surface	Mercury	mg/kg	7.87E+00	1.46E-06	2.63E-05	2.83E-05
169	1	Surface	Nickel	mg/kg	5.49E+02	1.02E-04	1.47E-03	6.58E-08
169	1	Surface	PCB, Total	mg/kg	1.00E+01	1.86E-06	9.37E-05	2.04E-06
169	1	Surface	Thallium	mg/kg	4.60E-01	8.55E-08	1.54E-06	5.52E-11
169	1	Surface	Total PAH	mg/kg	4.59E+00	8.52E-07	3.99E-05	4.08E-08
169	1	Surface	Uranium	mg/kg	5.03E+01	9.35E-06	1.68E-04	6.03E-09
169	1	Surface	Uranium-234	pCi/g	6.55E+00	1.22E-06		7.85E-10
169	1	Surface	Uranium-235	pCi/g	4.60E-01	8.55E-08		5.52E-11
169	1	Surface	Uranium-238	pCi/g	8.12E+00	1.51E-06		9.74E-10
170	1	Surface	Neptunium-237	pCi/g	1.15E-01	2.14E-08		1.38E-11
170	1	Surface	Uranium-238	pCi/g	1.53E+00	2.84E-07		1.83E-10
176	1	Surface	Arsenic	mg/kg	4.86E+01	9.02E-06	9.74E-05	5.82E-09
176	1	Surface	Chromium	mg/kg	4.27E+01	7.94E-06	1.43E-04	5.12E-09
176	1	Surface	Nickel	mg/kg	1.07E+02	1.99E-05	2.87E-04	1.28E-08
176	1	Surface	Uranium	mg/kg	2.21E+01	4.11E-06	7.39E-05	2.65E-09
180	1	Surface	Antimony	mg/kg	5.80E-01	1.08E-07	1.94E-06	6.95E-11
180	1	Surface	Arsenic	mg/kg	7.48E+01	1.39E-05	1.50E-04	8.97E-09
180	1	Surface	Chromium	mg/kg	5.54E+01	1.03E-05	1.85E-04	6.65E-09
180	1	Surface	Mercury	mg/kg	8.28E+00	1.54E-06	2.77E-05	2.98E-05
180	1	Surface	Nickel	mg/kg	8.77E+01	1.63E-05	2.35E-04	1.05E-08
180	2	Surface	Antimony	mg/kg	4.58E-01	8.51E-08	1.53E-06	5.49E-11
180	2	Surface	Arsenic	mg/kg	1.27E+01	2.35E-06	2.54E-05	1.52E-09
180	2	Surface	Chromium	mg/kg	4.46E+01	8.29E-06	1.49E-04	5.35E-09
180	2	Surface	Nickel	mg/kg	8.42E+01	1.56E-05	2.25E-04	1.01E-08
180	2	Surface	Total PAH	mg/kg	9.19E-02	1.71E-08	7.99E-07	8.17E-10
180	3	Surface	Arsenic	mg/kg	1.34E+01	2.48E-06	2.68E-05	1.60E-09
180	3	Surface	Chromium	mg/kg	4.69E+01	8.72E-06	1.57E-04	5.63E-09
180	3	Surface	Nickel	mg/kg	6.77E+01	1.26E-05	1.81E-04	8.12E-09
180	3	Surface	Silver	mg/kg	1.14E+01	2.12E-06	3.05E-05	1.37E-09
180	4	Surface	Arsenic	mg/kg	1.15E+01	2.14E-06	2.31E-05	1.38E-09
180	4	Surface	Barium	mg/kg	2.13E+02	3.96E-05	7.12E-04	2.55E-08
180	4	Surface	Beryllium	mg/kg	1.60E+00	2.97E-07	7.49E-07	1.92E-10
180	4	Surface	Chromium	mg/kg	6.00E+01	1.12E-05	2.01E-04	7.19E-09
180	4	Surface	Iron	mg/kg	1.54E+04	2.86E-03	5.14E-02	1.84E-06
180	4	Surface	Manganese	mg/kg	7.09E+02	1.32E-04	1.90E-03	8.50E-08
180	4	Surface	Nickel	mg/kg	6.46E+01	1.20E-05	1.73E-04	7.75E-09
180	4	Surface	Silver	mg/kg	9.68E+00	1.80E-06	2.59E-05	1.16E-09
180	4	Surface	Total PAH	mg/kg	2.15E-02	4.00E-09	1.87E-07	1.91E-10
180	4	Surface	Vanadium	mg/kg	4.85E+01	9.01E-06	8.44E-05	5.81E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
181	1	Surface	Chromium	mg/kg	2.29E+01	4.25E-06	7.64E-05	2.74E-09
181	1	Surface	Thallium	mg/kg	3.50E+00	6.50E-07	1.17E-05	4.20E-10
181	1	Surface	Total PAH	mg/kg	3.43E-02	6.37E-09	2.98E-07	3.05E-10
194	1	Surface	Antimony	mg/kg	1.50E+00	2.79E-07	5.02E-06	1.80E-10
194	1	Surface	Chromium	mg/kg	3.87E+01	7.19E-06	1.29E-04	4.64E-09
194	1	Surface	Mercury	mg/kg	6.71E+00	1.25E-06	2.24E-05	2.41E-05
194	1	Surface	Nickel	mg/kg	5.84E+01	1.09E-05	1.56E-04	7.00E-09
194	1	Surface	Silver	mg/kg	1.09E+01	2.03E-06	2.92E-05	1.31E-09
194	2	Surface	Chromium	mg/kg	5.96E+01	1.11E-05	1.99E-04	7.15E-09
194	2	Surface	Silver	mg/kg	1.31E+01	2.44E-06	3.51E-05	1.57E-09
194	2	Surface	Uranium	mg/kg	2.28E+01	4.23E-06	7.62E-05	2.73E-09
194	2	Surface	Uranium-238	pCi/g	1.42E+00	2.64E-07		1.70E-10
194	3	Surface	Antimony	mg/kg	6.90E-01	1.28E-07	2.31E-06	8.27E-11
194	3	Surface	Arsenic	mg/kg	1.46E+01	2.72E-06	2.94E-05	1.76E-09
194	3	Surface	Chromium	mg/kg	3.90E+01	7.24E-06	1.30E-04	4.67E-09
194	3	Surface	Nickel	mg/kg	6.40E+01	1.19E-05	1.71E-04	7.68E-09
194	3	Surface	Total PAH	mg/kg	3.93E-02	7.30E-09	3.42E-07	3.50E-10
194	3	Surface	Uranium-238	pCi/g	1.28E+00	2.39E-07		1.54E-10
194	4	Surface	Chromium	mg/kg	4.84E+01	9.00E-06	1.62E-04	5.80E-09
194	4	Surface	Mercury	mg/kg	8.92E+00	1.66E-06	2.98E-05	3.21E-05
194	4	Surface	Nickel	mg/kg	6.91E+01	1.28E-05	1.85E-04	8.28E-09
194	4	Surface	Silver	mg/kg	1.18E+01	2.19E-06	3.15E-05	1.41E-09
194	4	Surface	Total PAH	mg/kg	7.30E-02	1.36E-08	6.34E-07	6.49E-10
194	4	Surface	Uranium-238	pCi/g	1.73E+00	3.21E-07		2.07E-10
194	5	Surface	Chromium	mg/kg	4.58E+01	8.51E-06	1.53E-04	5.49E-09
194	5	Surface	Mercury	mg/kg	8.69E+00	1.61E-06	2.91E-05	3.13E-05
194	5	Surface	Nickel	mg/kg	7.54E+01	1.40E-05	2.02E-04	9.04E-09
194	5	Surface	Silver	mg/kg	1.25E+01	2.31E-06	3.33E-05	1.49E-09
194	5	Surface	Total PAH	mg/kg	2.37E-02	4.40E-09	2.06E-07	2.11E-10
194	5	Surface	Uranium-238	pCi/g	1.38E+00	2.56E-07		1.65E-10
194	6	Surface	Chromium	mg/kg	3.70E+01	6.88E-06	1.24E-04	4.44E-09
194	6	Surface	Manganese	mg/kg	1.08E+03	2.01E-04	2.89E-03	1.29E-07
194	6	Surface	Nickel	mg/kg	8.06E+01	1.50E-05	2.16E-04	9.66E-09
194	6	Surface	Silver	mg/kg	9.89E+00	1.84E-06	2.65E-05	1.19E-09
194	6	Surface	Uranium-238	pCi/g	1.32E+00	2.45E-07		1.58E-10
194	7	Surface	Chromium	mg/kg	5.32E+01	9.89E-06	1.78E-04	6.38E-09
194	7	Surface	Nickel	mg/kg	7.71E+01	1.43E-05	2.06E-04	9.25E-09
194	7	Surface	Silver	mg/kg	1.25E+01	2.32E-06	3.35E-05	1.50E-09
194	8	Surface	Chromium	mg/kg	5.36E+01	9.96E-06	1.79E-04	6.42E-09
194	8	Surface	Manganese	mg/kg	8.00E+02	1.49E-04	2.14E-03	9.59E-08
194	8	Surface	Total PAH	mg/kg	4.85E-01	9.01E-08	4.22E-06	4.32E-09
194	8	Surface	Uranium-238	pCi/g	1.39E+00	2.58E-07		1.67E-10
194	9	Surface	Arsenic	mg/kg	1.14E+01	2.12E-06	2.29E-05	1.37E-09
194	9	Surface	Chromium	mg/kg	5.17E+01	9.60E-06	1.73E-04	6.19E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	10	Surface	Arsenic	mg/kg	1.22E+01	2.26E-06	2.44E-05	1.46E-09
194	10	Surface	Cesium-137	pCi/g	5.81E-01	1.08E-07		6.97E-11
194	10	Surface	Chromium	mg/kg	3.63E+01	6.74E-06	1.21E-04	4.35E-09
194	10	Surface	Nickel	mg/kg	7.60E+01	1.41E-05	2.03E-04	9.11E-09
194	10	Surface	Total PAH	mg/kg	2.57E-01	4.78E-08	2.24E-06	2.29E-09
194	10	Surface	Uranium-238	pCi/g	1.49E+00	2.77E-07		1.79E-10
194	11	Surface	Chromium	mg/kg	3.27E+01	6.07E-06	1.09E-04	3.92E-09
194	11	Surface	Mercury	mg/kg	8.09E+00	1.50E-06	2.71E-05	2.91E-05
194	11	Surface	Nickel	mg/kg	1.01E+02	1.87E-05	2.69E-04	1.21E-08
194	11	Surface	PCB, Total	mg/kg	8.40E-02	1.56E-08	7.87E-07	1.71E-08
194	11	Surface	Silver	mg/kg	1.33E+01	2.47E-06	3.56E-05	1.59E-09
194	11	Surface	Total PAH	mg/kg	7.95E-02	1.48E-08	6.92E-07	7.08E-10
194	12	Surface	Chromium	mg/kg	6.34E+01	1.18E-05	2.12E-04	7.60E-09
194	12	Surface	Nickel	mg/kg	7.86E+01	1.46E-05	2.10E-04	9.42E-09
194	12	Surface	Silver	mg/kg	1.20E+01	2.23E-06	3.21E-05	1.44E-09
194	12	Surface	Total PAH	mg/kg	8.91E-01	1.66E-07	7.75E-06	7.93E-09
194	13	Surface	Chromium	mg/kg	4.77E+01	8.85E-06	1.59E-04	5.71E-09
194	13	Surface	Nickel	mg/kg	6.03E+01	1.12E-05	1.61E-04	7.23E-09
194	13	Surface	Total PAH	mg/kg	9.13E-02	1.70E-08	7.94E-07	8.13E-10
194	14	Surface	Chromium	mg/kg	5.21E+01	9.69E-06	1.74E-04	6.25E-09
194	14	Surface	Mercury	mg/kg	8.14E+00	1.51E-06	2.72E-05	2.93E-05
194	15	Surface	Chromium	mg/kg	5.33E+01	9.91E-06	1.78E-04	6.39E-09
194	15	Surface	Silver	mg/kg	1.03E+01	1.92E-06	2.76E-05	1.24E-09
194	16	Surface	Antimony	mg/kg	7.40E-01	1.38E-07	2.48E-06	8.87E-11
194	16	Surface	Arsenic	mg/kg	1.15E+01	2.14E-06	2.31E-05	1.38E-09
194	16	Surface	Beryllium	mg/kg	8.70E-01	1.62E-07	4.07E-07	1.04E-10
194	16	Surface	Chromium	mg/kg	5.32E+01	9.89E-06	1.78E-04	6.38E-09
194	16	Surface	Nickel	mg/kg	7.20E+01	1.34E-05	1.93E-04	8.64E-09
194	16	Surface	Thallium	mg/kg	6.30E-01	1.17E-07	2.11E-06	7.55E-11
194	16	Surface	Vanadium	mg/kg	4.11E+01	7.64E-06	7.15E-05	4.93E-09
194	17	Surface	Arsenic	mg/kg	1.16E+01	2.15E-06	2.32E-05	1.38E-09
194	17	Surface	Cadmium	mg/kg	1.10E+00	2.04E-07	7.36E-08	1.32E-10
194	17	Surface	Chromium	mg/kg	4.65E+01	8.64E-06	1.55E-04	5.57E-09
194	17	Surface	Total PAH	mg/kg	1.59E-01	2.95E-08	1.38E-06	1.41E-09
194	18	Surface	Arsenic	mg/kg	1.06E+01	1.96E-06	2.12E-05	1.27E-09
194	18	Surface	Beryllium	mg/kg	7.40E-01	1.38E-07	3.47E-07	8.87E-11
194	18	Surface	Chromium	mg/kg	6.85E+01	1.27E-05	2.29E-04	8.21E-09
194	18	Surface	Nickel	mg/kg	5.78E+01	1.07E-05	1.55E-04	6.93E-09
194	19	Surface	Arsenic	mg/kg	1.07E+01	1.99E-06	2.15E-05	1.28E-09
194	19	Surface	Chromium	mg/kg	4.84E+01	8.99E-06	1.62E-04	5.80E-09
194	19	Surface	Nickel	mg/kg	5.84E+01	1.08E-05	1.56E-04	7.00E-09
194	20	Surface	Arsenic	mg/kg	1.18E+01	2.20E-06	2.38E-05	1.42E-09
194	20	Surface	Barium	mg/kg	3.26E+02	6.06E-05	1.09E-03	3.91E-08
194	20	Surface	Beryllium	mg/kg	1.10E+00	2.04E-07	5.15E-07	1.32E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	20	Surface	Chromium	mg/kg	5.24E+01	9.73E-06	1.75E-04	6.28E-09
194	20	Surface	Cobalt	mg/kg	2.11E+01	3.92E-06	7.06E-05	2.53E-09
194	20	Surface	Manganese	mg/kg	2.29E+03	4.26E-04	6.14E-03	2.75E-07
194	20	Surface	Mercury	mg/kg	7.28E+00	1.35E-06	2.44E-05	2.62E-05
194	20	Surface	Nickel	mg/kg	6.57E+01	1.22E-05	1.76E-04	7.88E-09
194	20	Surface	Silver	mg/kg	1.22E+01	2.27E-06	3.27E-05	1.47E-09
194	20	Surface	Total PAH	mg/kg	3.10E-02	5.76E-09	2.70E-07	2.76E-10
194	20	Surface	Vanadium	mg/kg	3.81E+01	7.08E-06	6.63E-05	4.57E-09
194	21	Surface	Antimony	mg/kg	9.30E-01	1.73E-07	3.11E-06	1.12E-10
194	21	Surface	Chromium	mg/kg	5.51E+01	1.02E-05	1.84E-04	6.60E-09
194	21	Surface	Mercury	mg/kg	6.62E+00	1.23E-06	2.21E-05	2.38E-05
194	21	Surface	Nickel	mg/kg	7.01E+01	1.30E-05	1.88E-04	8.41E-09
194	21	Surface	Thallium	mg/kg	6.40E-01	1.19E-07	2.14E-06	7.67E-11
194	22	Surface	Chromium	mg/kg	4.90E+01	9.10E-06	1.64E-04	5.87E-09
194	22	Surface	Manganese	mg/kg	8.19E+02	1.52E-04	2.19E-03	9.82E-08
194	22	Surface	PCB, Total	mg/kg	1.09E+01	2.03E-06	1.02E-04	2.22E-06
194	23	Surface	Arsenic	mg/kg	1.16E+01	2.15E-06	2.32E-05	1.38E-09
194	23	Surface	Chromium	mg/kg	6.60E+01	1.23E-05	2.21E-04	7.91E-09
194	23	Surface	Iron	mg/kg	1.83E+04	3.40E-03	6.12E-02	2.19E-06
194	23	Surface	Nickel	mg/kg	8.77E+01	1.63E-05	2.35E-04	1.05E-08
194	23	Surface	Silver	mg/kg	1.15E+01	2.13E-06	3.07E-05	1.38E-09
194	24	Surface	Chromium	mg/kg	5.02E+01	9.33E-06	1.68E-04	6.02E-09
194	24	Surface	Nickel	mg/kg	7.08E+01	1.32E-05	1.89E-04	8.48E-09
194	24	Surface	Total PAH	mg/kg	2.28E-02	4.24E-09	1.98E-07	2.03E-10
194	25	Surface	Barium	mg/kg	3.00E+02	5.58E-05	1.00E-03	3.60E-08
194	25	Surface	Chromium	mg/kg	6.13E+01	1.14E-05	2.05E-04	7.34E-09
194	25	Surface	Manganese	mg/kg	9.96E+02	1.85E-04	2.66E-03	1.19E-07
194	25	Surface	Nickel	mg/kg	6.33E+01	1.18E-05	1.69E-04	7.59E-09
194	25	Surface	Total PAH	mg/kg	2.06E-02	3.83E-09	1.79E-07	1.83E-10
194	26	Surface	Beryllium	mg/kg	7.00E-01	1.30E-07	3.28E-07	8.39E-11
194	26	Surface	Chromium	mg/kg	4.18E+01	7.77E-06	1.40E-04	5.01E-09
194	26	Surface	Silver	mg/kg	1.03E+01	1.91E-06	2.75E-05	1.23E-09
194	26	Surface	Thallium	mg/kg	3.90E-01	7.25E-08	1.30E-06	4.68E-11
194	27	Surface	Chromium	mg/kg	5.22E+01	9.69E-06	1.75E-04	6.25E-09
194	27	Surface	Nickel	mg/kg	6.55E+01	1.22E-05	1.75E-04	7.85E-09
194	27	Surface	Silver	mg/kg	1.01E+01	1.88E-06	2.71E-05	1.21E-09
194	28	Surface	Arsenic	mg/kg	1.20E+01	2.24E-06	2.41E-05	1.44E-09
194	28	Surface	Beryllium	mg/kg	7.10E-01	1.32E-07	3.32E-07	8.51E-11
194	28	Surface	Chromium	mg/kg	6.07E+01	1.13E-05	2.03E-04	7.28E-09
194	28	Surface	Manganese	mg/kg	1.14E+03	2.11E-04	3.05E-03	1.36E-07
194	28	Surface	Nickel	mg/kg	6.95E+01	1.29E-05	1.86E-04	8.33E-09
194	28	Surface	Silver	mg/kg	1.08E+01	2.01E-06	2.89E-05	1.29E-09
194	28	Surface	Vanadium	mg/kg	4.06E+01	7.54E-06	7.06E-05	4.87E-09
194	29	Surface	Antimony	mg/kg	7.10E-01	1.32E-07	2.37E-06	8.51E-11

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
194	29	Surface	Chromium	mg/kg	5.06E+01	9.40E-06	1.69E-04	6.06E-09
194	29	Surface	Nickel	mg/kg	6.51E+01	1.21E-05	1.74E-04	7.81E-09
194	29	Surface	Silver	mg/kg	9.77E+00	1.82E-06	2.61E-05	1.17E-09
194	30	Surface	Chromium	mg/kg	5.66E+01	1.05E-05	1.89E-04	6.78E-09
194	30	Surface	Mercury	mg/kg	8.80E+00	1.64E-06	2.94E-05	3.17E-05
194	30	Surface	Nickel	mg/kg	6.99E+01	1.30E-05	1.87E-04	8.38E-09
194	30	Surface	Silver	mg/kg	9.76E+00	1.81E-06	2.61E-05	1.17E-09
194	31	Surface	Cesium-137	pCi/g	5.70E-01	1.06E-07		6.83E-11
194	31	Surface	Uranium-238	pCi/g	1.72E+00	3.20E-07		2.06E-10
195	1	Surface	Chromium	mg/kg	6.33E+01	1.18E-05	2.12E-04	7.59E-09
195	1	Surface	Nickel	mg/kg	7.02E+01	1.30E-05	1.88E-04	8.42E-09
195	1	Surface	Silver	mg/kg	9.37E+00	1.74E-06	2.51E-05	1.12E-09
195	2	Surface	Chromium	mg/kg	4.52E+01	8.40E-06	1.51E-04	5.42E-09
195	2	Surface	Silver	mg/kg	9.48E+00	1.76E-06	2.54E-05	1.14E-09
195	2	Surface	Total PAH	mg/kg	2.68E-02	4.98E-09	2.33E-07	2.39E-10
195	3	Surface	Chromium	mg/kg	5.03E+01	9.35E-06	1.68E-04	6.03E-09
195	3	Surface	Nickel	mg/kg	5.22E+01	9.69E-06	1.40E-04	6.25E-09
195	3	Surface	Total PAH	mg/kg	4.06E-02	7.54E-09	3.53E-07	3.61E-10
195	4	Surface	Chromium	mg/kg	5.29E+01	9.83E-06	1.77E-04	6.34E-09
195	4	Surface	Nickel	mg/kg	6.23E+01	1.16E-05	1.67E-04	7.47E-09
195	5	Surface	Chromium	mg/kg	5.74E+01	1.07E-05	1.92E-04	6.88E-09
195	5	Surface	Nickel	mg/kg	8.11E+01	1.51E-05	2.17E-04	9.72E-09
195	5	Surface	Total PAH	mg/kg	2.40E-02	4.46E-09	2.09E-07	2.14E-10
195	6	Surface	Chromium	mg/kg	4.45E+01	8.28E-06	1.49E-04	5.34E-09
195	6	Surface	Nickel	mg/kg	8.71E+01	1.62E-05	2.33E-04	1.04E-08
195	6	Surface	Total PAH	mg/kg	2.48E-01	4.60E-08	2.15E-06	2.20E-09
195	7	Surface	Chromium	mg/kg	4.93E+01	9.15E-06	1.65E-04	5.91E-09
195	7	Surface	Silver	mg/kg	8.06E+00	1.50E-06	2.16E-05	9.66E-10
195	8	Surface	Arsenic	mg/kg	1.16E+01	2.15E-06	2.32E-05	1.39E-09
195	8	Surface	Beryllium	mg/kg	7.40E-01	1.38E-07	3.47E-07	8.87E-11
195	8	Surface	Chromium	mg/kg	6.79E+01	1.26E-05	2.27E-04	8.14E-09
195	8	Surface	Cobalt	mg/kg	1.82E+01	3.38E-06	6.09E-05	2.18E-09
195	8	Surface	Nickel	mg/kg	7.01E+01	1.30E-05	1.88E-04	8.41E-09
195	8	Surface	Total PAH	mg/kg	2.16E-01	4.01E-08	1.87E-06	1.92E-09
195	8	Surface	Vanadium	mg/kg	4.04E+01	7.51E-06	7.03E-05	4.84E-09
195	9	Surface	Chromium	mg/kg	6.08E+01	1.13E-05	2.03E-04	7.29E-09
195	9	Surface	Nickel	mg/kg	7.93E+01	1.47E-05	2.12E-04	9.50E-09
195	10	Surface	Chromium	mg/kg	4.51E+01	8.38E-06	1.51E-04	5.40E-09
195	10	Surface	Nickel	mg/kg	7.40E+01	1.38E-05	1.98E-04	8.87E-09
195	10	Surface	Silver	mg/kg	1.31E+01	2.44E-06	3.51E-05	1.57E-09
195	11	Surface	Aluminum	mg/kg	2.81E+04	5.22E-03	9.40E-02	3.37E-06
195	11	Surface	Arsenic	mg/kg	1.35E+01	2.50E-06	2.70E-05	1.61E-09
195	11	Surface	Barium	mg/kg	4.53E+02	8.42E-05	1.52E-03	5.43E-08
195	11	Surface	Chromium	mg/kg	5.05E+01	9.38E-06	1.69E-04	6.05E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
195	11	Surface	Cobalt	mg/kg	2.77E+01	5.15E-06	9.27E-05	3.32E-09
195	11	Surface	Iron	mg/kg	1.97E+04	3.66E-03	6.59E-02	2.36E-06
195	11	Surface	Nickel	mg/kg	6.77E+01	1.26E-05	1.81E-04	8.12E-09
195	11	Surface	Thallium	mg/kg	6.60E-01	1.23E-07	2.21E-06	7.91E-11
195	11	Surface	Vanadium	mg/kg	7.97E+01	1.48E-05	1.39E-04	9.56E-09
195	12	Surface	Beryllium	mg/kg	7.50E-01	1.39E-07	3.51E-07	8.99E-11
195	12	Surface	Chromium	mg/kg	7.04E+01	1.31E-05	2.35E-04	8.44E-09
195	12	Surface	Nickel	mg/kg	6.78E+01	1.26E-05	1.81E-04	8.12E-09
195	13	Surface	Chromium	mg/kg	6.55E+01	1.22E-05	2.19E-04	7.85E-09
195	13	Surface	Nickel	mg/kg	6.91E+01	1.28E-05	1.85E-04	8.28E-09
195	14	Surface	Chromium	mg/kg	5.94E+01	1.10E-05	1.99E-04	7.13E-09
195	14	Surface	Nickel	mg/kg	7.04E+01	1.31E-05	1.88E-04	8.44E-09
195	15	Surface	Chromium	mg/kg	4.82E+01	8.95E-06	1.61E-04	5.78E-09
195	16	Surface	Chromium	mg/kg	4.45E+01	8.26E-06	1.49E-04	5.33E-09
195	16	Surface	Nickel	mg/kg	8.16E+01	1.52E-05	2.18E-04	9.78E-09
195	17	Surface	Chromium	mg/kg	8.22E+01	1.53E-05	2.75E-04	9.85E-09
195	17	Surface	Mercury	mg/kg	4.17E-01	7.75E-08	1.39E-06	1.50E-06
195	17	Surface	Nickel	mg/kg	5.93E+01	1.10E-05	1.59E-04	7.11E-09
195	17	Surface	PCB, Total	mg/kg	7.40E-01	1.38E-07	6.93E-06	1.51E-07
195	17	Surface	Silver	mg/kg	1.01E+01	1.88E-06	2.71E-05	1.22E-09
195	17	Surface	Thallium	mg/kg	5.40E-01	1.00E-07	1.81E-06	6.47E-11
195	17	Surface	Total PAH	mg/kg	3.16E-01	5.87E-08	2.75E-06	2.81E-09
195	17	Surface	Uranium-235	pCi/g	1.32E-01	2.45E-08		1.58E-11
195	17	Surface	Uranium-238	pCi/g	2.48E+00	4.61E-07		2.97E-10
196	1	Surface	Antimony	mg/kg	5.90E-01	1.10E-07	1.97E-06	7.07E-11
196	1	Surface	Chromium	mg/kg	1.96E+01	3.64E-06	6.56E-05	2.35E-09
196	1	Surface	Neptunium-237	pCi/g	3.11E-01	5.78E-08		3.73E-11
196	1	Surface	Nickel	mg/kg	5.56E+02	1.03E-04	1.49E-03	6.67E-08
196	1	Surface	Uranium	mg/kg	2.33E+01	4.33E-06	7.79E-05	2.79E-09
196	1	Surface	Uranium-238	pCi/g	1.54E+00	2.86E-07		1.85E-10
196	2	Surface	Barium	mg/kg	2.02E+02	3.75E-05	6.76E-04	2.42E-08
196	2	Surface	Cadmium	mg/kg	2.53E+00	4.70E-07	1.69E-07	3.03E-10
196	2	Surface	Chromium	mg/kg	2.07E+01	3.85E-06	6.92E-05	2.48E-09
196	2	Surface	Nickel	mg/kg	7.36E+01	1.37E-05	1.97E-04	8.82E-09
196	2	Surface	PCB, Total	mg/kg	1.51E+00	2.81E-07	1.41E-05	3.07E-07
196	2	Surface	Total PAH	mg/kg	6.80E-01	1.26E-07	5.91E-06	6.05E-09
196	2	Surface	Uranium-238	pCi/g	2.21E+00	4.11E-07		2.65E-10
200	1	Surface	Antimony	mg/kg	5.60E-01	1.04E-07	1.87E-06	6.71E-11
200	1	Surface	Cesium-137	pCi/g	5.74E-01	1.07E-07		6.88E-11
200	1	Surface	Chromium	mg/kg	5.75E+01	1.07E-05	1.92E-04	6.90E-09
200	1	Surface	Mercury	mg/kg	6.71E+00	1.25E-06	2.24E-05	2.41E-05
200	1	Surface	Nickel	mg/kg	1.28E+02	2.38E-05	3.43E-04	1.53E-08
200	1	Surface	PCB, Total	mg/kg	2.60E+00	4.83E-07	2.44E-05	5.29E-07
200	1	Surface	Total PAH	mg/kg	2.84E-02	5.28E-09	2.47E-07	2.53E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
200	1	Surface	Uranium	mg/kg	2.73E+01	5.07E-06	9.13E-05	3.27E-09
200	1	Surface	Uranium-235	pCi/g	1.43E-01	2.66E-08		1.71E-11
200	1	Surface	Uranium-238	pCi/g	3.58E+00	6.65E-07		4.29E-10
204	1	Surface	Aluminum	mg/kg	1.48E+04	2.75E-03	4.95E-02	1.77E-06
204	1	Surface	Beryllium	mg/kg	1.36E+00	2.53E-07	6.37E-07	1.63E-10
204	1	Surface	Cadmium	mg/kg	2.73E+00	5.07E-07	1.83E-07	3.27E-10
204	1	Surface	Chromium	mg/kg	7.40E+01	1.38E-05	2.48E-04	8.87E-09
204	1	Surface	Iron	mg/kg	4.19E+04	7.79E-03	1.40E-01	5.02E-06
204	1	Surface	PCB, Total	mg/kg	2.53E+00	4.70E-07	2.37E-05	5.15E-07
204	1	Surface	Uranium-235	pCi/g	1.80E-01	3.35E-08		2.16E-11
204	1	Surface	Uranium-238	pCi/g	5.20E+00	9.66E-07		6.23E-10
204	1	Surface	Vanadium	mg/kg	7.55E+01	1.40E-05	1.31E-04	9.05E-09
204	2	Surface	Aluminum	mg/kg	1.37E+04	2.55E-03	4.58E-02	1.64E-06
204	2	Surface	Chromium	mg/kg	1.80E+01	3.35E-06	6.02E-05	2.16E-09
204	2	Surface	PCB, Total	mg/kg	1.70E-01	3.16E-08	1.59E-06	3.46E-08
204	3	Surface	Chromium	mg/kg	2.06E+01	3.83E-06	6.89E-05	2.47E-09
204	3	Surface	Uranium-238	pCi/g	2.50E+00	4.65E-07		3.00E-10
204	4	Surface	Antimony	mg/kg	1.10E+00	2.04E-07	3.68E-06	1.32E-10
204	4	Surface	Chromium	mg/kg	2.89E+01	5.37E-06	9.67E-05	3.46E-09
204	4	Surface	Uranium-235	pCi/g	1.88E-01	3.49E-08		2.25E-11
204	4	Surface	Uranium-238	pCi/g	9.72E+00	1.81E-06		1.17E-09
204	18	Surface	Cesium-137	pCi/g	6.30E-01	1.17E-07		7.55E-11
204	18	Surface	Uranium	mg/kg	1.60E+01	2.97E-06	5.35E-05	1.92E-09
204	18	Surface	Uranium-235	pCi/g	1.25E-01	2.32E-08		1.50E-11
204	18	Surface	Uranium-238	pCi/g	5.37E+00	9.98E-07		6.44E-10
204	23	Surface	Americium-241	pCi/g	3.71E+00	6.89E-07		4.45E-10
204	23	Surface	Beryllium	mg/kg	1.33E+00	2.47E-07	6.23E-07	1.59E-10
204	23	Surface	Cesium-137	pCi/g	1.17E+00	2.18E-07		1.41E-10
204	23	Surface	Chromium	mg/kg	1.75E+02	3.25E-05	5.85E-04	2.10E-08
204	23	Surface	Cobalt-60	pCi/g	1.23E-02	2.28E-09		1.47E-12
204	23	Surface	PCB, Total	mg/kg	7.90E+01	1.47E-05	7.40E-04	1.61E-05
204	23	Surface	Uranium	mg/kg	1.31E+04	2.43E-03	4.37E-02	1.57E-06
204	23	Surface	Uranium-234	pCi/g	4.45E+02	8.27E-05		5.34E-08
204	23	Surface	Uranium-235	pCi/g	5.70E+01	1.06E-05		6.83E-09
204	23	Surface	Uranium-238	pCi/g	4.39E+03	8.15E-04		5.26E-07
211	1	Surface	Chromium	mg/kg	4.48E+01	8.32E-06	1.50E-04	5.37E-09
211	1	Surface	Neptunium-237	pCi/g	1.46E-01	2.71E-08		1.75E-11
211	1	Surface	PCB, Total	mg/kg	3.60E-01	6.69E-08	3.37E-06	7.33E-08
211	1	Surface	Total PAH	mg/kg	1.04E-01	1.93E-08	9.03E-07	9.24E-10
211	1	Surface	Uranium	mg/kg	2.19E+01	4.06E-06	7.31E-05	2.62E-09
211	1	Surface	Uranium-235	pCi/g	2.12E-01	3.94E-08		2.54E-11
211	1	Surface	Uranium-238	pCi/g	5.84E+00	1.09E-06		7.00E-10
212	1	Surface	Arsenic	mg/kg	1.44E+01	2.68E-06	2.89E-05	1.73E-09
212	1	Surface	Beryllium	mg/kg	8.10E-01	1.51E-07	3.79E-07	9.71E-11

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
212	1	Surface	Cesium-137	pCi/g	6.01E-01	1.12E-07		7.21E-11
212	1	Surface	Chromium	mg/kg	3.58E+01	6.65E-06	1.20E-04	4.29E-09
212	1	Surface	Cobalt-60	pCi/g	8.76E-03	1.63E-09		1.05E-12
212	1	Surface	Iron	mg/kg	4.14E+04	7.69E-03	1.38E-01	4.96E-06
212	1	Surface	Neptunium-237	pCi/g	4.00E+00	7.43E-07		4.80E-10
212	1	Surface	Nickel	mg/kg	8.69E+01	1.62E-05	2.33E-04	1.04E-08
212	1	Surface	PCB, Total	mg/kg	1.80E-01	3.35E-08	1.69E-06	3.66E-08
212	1	Surface	Plutonium-239/240	pCi/g	6.71E+00	1.25E-06		8.04E-10
212	1	Surface	Thorium-230	pCi/g	2.60E+02	4.83E-05		3.12E-08
212	1	Surface	Uranium	mg/kg	2.30E+01	4.27E-06	7.69E-05	2.76E-09
212	1	Surface	Uranium-235	pCi/g	2.09E-01	3.88E-08		2.51E-11
212	1	Surface	Uranium-238	pCi/g	3.17E+00	5.89E-07		3.80E-10
213	1	Surface	Antimony	mg/kg	8.50E-01	1.58E-07	2.84E-06	1.02E-10
213	1	Surface	Chromium	mg/kg	4.78E+01	8.88E-06	1.60E-04	5.73E-09
213	1	Surface	Nickel	mg/kg	6.67E+01	1.24E-05	1.79E-04	8.00E-09
213	1	Surface	PCB, Total	mg/kg	7.30E-02	1.36E-08	6.84E-07	1.49E-08
213	1	Surface	Silver	mg/kg	1.32E+01	2.45E-06	3.52E-05	1.58E-09
213	1	Surface	Total PAH	mg/kg	1.72E-01	3.19E-08	1.49E-06	1.53E-09
213	1	Surface	Uranium-238	pCi/g	2.33E+00	4.33E-07		2.79E-10
213	2	Surface	Chromium	mg/kg	4.48E+01	8.33E-06	1.50E-04	5.37E-09
213	2	Surface	Nickel	mg/kg	9.10E+01	1.69E-05	2.43E-04	1.09E-08
213	2	Surface	Silver	mg/kg	1.13E+01	2.09E-06	3.01E-05	1.35E-09
214	1	Surface	Antimony	mg/kg	5.70E-01	1.06E-07	1.91E-06	6.83E-11
215	1	Surface	Antimony	mg/kg	6.80E-01	1.26E-07	2.27E-06	8.15E-11
215	1	Surface	Chromium	mg/kg	5.73E+01	1.07E-05	1.92E-04	6.87E-09
215	1	Surface	Iron	mg/kg	3.87E+04	7.19E-03	1.29E-01	4.64E-06
215	1	Surface	Nickel	mg/kg	7.32E+01	1.36E-05	1.96E-04	8.77E-09
215	1	Surface	Total PAH	mg/kg	8.09E-02	1.50E-08	7.03E-07	7.20E-10
216	1	Surface	Chromium	mg/kg	2.38E+01	4.42E-06	7.96E-05	2.85E-09
216	1	Surface	Total PAH	mg/kg	1.49E-01	2.77E-08	1.30E-06	1.33E-09
216	1	Surface	Uranium-238	pCi/g	1.33E+00	2.47E-07		1.59E-10
217	1	Surface	Chromium	mg/kg	8.58E+01	1.59E-05	2.87E-04	1.03E-08
217	1	Surface	Cobalt	mg/kg	1.96E+01	3.64E-06	6.55E-05	2.35E-09
217	1	Surface	Manganese	mg/kg	7.70E+02	1.43E-04	2.06E-03	9.23E-08
217	1	Surface	Nickel	mg/kg	8.54E+01	1.59E-05	2.29E-04	1.02E-08
217	1	Surface	Silver	mg/kg	1.35E+01	2.50E-06	3.60E-05	1.61E-09
217	1	Surface	Uranium-238	pCi/g	1.15E+00	2.14E-07		1.38E-10
217	2	Surface	Antimony	mg/kg	1.70E+00	3.16E-07	5.69E-06	2.04E-10
217	2	Surface	Arsenic	mg/kg	1.12E+01	2.07E-06	2.24E-05	1.34E-09
217	2	Surface	Chromium	mg/kg	1.02E+02	1.89E-05	3.40E-04	1.22E-08
217	2	Surface	Cobalt	mg/kg	1.74E+01	3.23E-06	5.82E-05	2.09E-09
217	2	Surface	Iron	mg/kg	3.09E+04	5.75E-03	1.03E-01	3.71E-06
217	2	Surface	Manganese	mg/kg	8.44E+02	1.57E-04	2.26E-03	1.01E-07
217	2	Surface	Mercury	mg/kg	8.59E+00	1.60E-06	2.87E-05	3.09E-05

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
217	2	Surface	Nickel	mg/kg	9.74E+01	1.81E-05	2.61E-04	1.17E-08
217	2	Surface	Silver	mg/kg	1.61E+01	2.99E-06	4.31E-05	1.93E-09
217	2	Surface	Total PAH	mg/kg	5.05E-01	9.38E-08	4.39E-06	4.49E-09
219	1	Surface	Neptunium-237	pCi/g	3.31E-01	6.15E-08		3.97E-11
219	1	Surface	Nickel	mg/kg	6.71E+01	1.25E-05	1.80E-04	8.05E-09
219	1	Surface	Total PAH	mg/kg	7.50E-02	1.39E-08	6.53E-07	6.68E-10
219	1	Surface	Uranium-235	pCi/g	1.92E-01	3.57E-08		2.30E-11
219	1	Surface	Uranium-238	pCi/g	4.40E+00	8.18E-07		5.28E-10
221	1	Surface	Barium	mg/kg	2.21E+02	4.11E-05	7.39E-04	2.65E-08
221	1	Surface	Chromium	mg/kg	7.01E+01	1.30E-05	2.35E-04	8.41E-09
221	1	Surface	Iron	mg/kg	1.90E+04	3.53E-03	6.35E-02	2.28E-06
221	1	Surface	Nickel	mg/kg	7.93E+01	1.47E-05	2.12E-04	9.50E-09
221	1	Surface	PCB, Total	mg/kg	5.00E-01	9.29E-08	4.68E-06	1.02E-07
221	1	Surface	Total PAH	mg/kg	1.02E+00	1.90E-07	8.89E-06	9.10E-09
221	1	Surface	Uranium	mg/kg	1.64E+01	3.04E-06	5.47E-05	1.96E-09
221	1	Surface	Uranium-238	pCi/g	1.93E+00	3.59E-07		2.31E-10
222	1	Surface	Chromium	mg/kg	4.73E+01	8.79E-06	1.58E-04	5.67E-09
222	1	Surface	Nickel	mg/kg	9.19E+01	1.71E-05	2.46E-04	1.10E-08
222	1	Surface	PCB, Total	mg/kg	1.40E+00	2.60E-07	1.31E-05	2.85E-07
222	1	Surface	Total PAH	mg/kg	1.77E-01	3.29E-08	1.54E-06	1.58E-09
222	1	Surface	Uranium	mg/kg	2.80E+01	5.20E-06	9.36E-05	3.35E-09
222	1	Surface	Uranium-234	pCi/g	1.04E+01	1.93E-06		1.25E-09
222	1	Surface	Uranium-235	pCi/g	7.10E-01	1.32E-07		8.51E-11
222	1	Surface	Uranium-238	pCi/g	1.96E+01	3.64E-06		2.35E-09
224	1	Surface	Chromium	mg/kg	4.49E+01	8.34E-06	1.50E-04	5.38E-09
224	1	Surface	PCB, Total	mg/kg	4.75E+02	8.83E-05	4.45E-03	9.67E-05
224	1	Surface	Total PAH	mg/kg	4.53E+01	8.41E-06	3.94E-04	4.03E-07
224	1	Surface	Uranium	mg/kg	4.15E+01	7.71E-06	1.39E-04	4.98E-09
224	1	Surface	Uranium-235	pCi/g	2.50E-01	4.65E-08		3.00E-11
224	1	Surface	Uranium-238	pCi/g	2.64E+01	4.91E-06		3.17E-09
225	1	Surface	Chromium	mg/kg	2.55E+01	4.74E-06	8.53E-05	3.06E-09
225	1	Surface	Total PAH	mg/kg	7.79E-02	1.45E-08	6.77E-07	6.93E-10
225	1	Surface	Uranium-238	pCi/g	2.04E+00	3.79E-07		2.45E-10
226	1	Surface	Americium-241	pCi/g	1.62E+00	3.02E-07		1.95E-10
226	1	Surface	Antimony	mg/kg	6.60E-01	1.23E-07	2.21E-06	7.91E-11
226	1	Surface	Cesium-137	pCi/g	2.65E+00	4.92E-07		3.18E-10
226	1	Surface	Chromium	mg/kg	4.25E+01	7.90E-06	1.42E-04	5.10E-09
226	1	Surface	Cobalt-60	pCi/g	3.14E-03	5.84E-10		3.76E-13
226	1	Surface	Manganese	mg/kg	6.30E+02	1.17E-04	1.69E-03	7.55E-08
226	1	Surface	Mercury	mg/kg	9.74E+00	1.81E-06	3.26E-05	3.50E-05
226	1	Surface	Neptunium-237	pCi/g	1.60E+02	2.98E-05		1.92E-08
226	1	Surface	Nickel	mg/kg	2.10E+02	3.90E-05	5.61E-04	2.51E-08
226	1	Surface	PCB, Total	mg/kg	1.49E+00	2.77E-07	1.40E-05	3.03E-07
226	1	Surface	Plutonium-238	pCi/g	2.13E+00	3.96E-07		2.56E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
226	1	Surface	Plutonium-239/240	pCi/g	6.52E+00	1.21E-06		7.82E-10
226	1	Surface	Technetium-99	pCi/g	4.96E+01	9.22E-06		5.95E-09
226	1	Surface	Thorium-230	pCi/g	4.77E+01	8.87E-06		5.72E-09
226	1	Surface	Total PAH	mg/kg	9.19E-02	1.71E-08	7.99E-07	8.18E-10
226	1	Surface	Uranium	mg/kg	4.01E+02	7.45E-05	1.34E-03	4.81E-08
226	1	Surface	Uranium-234	pCi/g	2.29E+01	4.26E-06		2.75E-09
226	1	Surface	Uranium-235	pCi/g	1.10E+00	2.05E-07		1.32E-10
226	1	Surface	Uranium-238	pCi/g	2.40E+01	4.46E-06		2.88E-09
227	1	Surface	Beryllium	mg/kg	5.52E-01	1.03E-07	2.59E-07	6.62E-11
227	1	Surface	Cesium-137	pCi/g	1.90E-01	3.53E-08		2.28E-11
227	1	Surface	Chromium	mg/kg	4.71E+01	8.76E-06	1.58E-04	5.65E-09
227	1	Surface	Cobalt-60	pCi/g	1.53E-02	2.84E-09		1.83E-12
227	1	Surface	Neptunium-237	pCi/g	9.05E-01	1.68E-07		1.09E-10
227	1	Surface	Nickel	mg/kg	2.03E+02	3.77E-05	5.43E-04	2.43E-08
227	1	Surface	PCB, Total	mg/kg	4.14E+00	7.70E-07	3.88E-05	8.43E-07
227	1	Surface	Technetium-99	pCi/g	4.77E+01	8.87E-06		5.72E-09
227	1	Surface	Total PAH	mg/kg	3.38E-01	6.28E-08	2.94E-06	3.01E-09
227	1	Surface	Uranium	mg/kg	1.02E+02	1.89E-05	3.40E-04	1.22E-08
227	1	Surface	Uranium-234	pCi/g	1.54E+01	2.87E-06		1.85E-09
227	1	Surface	Uranium-235	pCi/g	1.49E+00	2.77E-07		1.79E-10
227	1	Surface	Uranium-238	pCi/g	4.63E+01	8.60E-06		5.55E-09
227	2	Surface	Beryllium	mg/kg	5.32E-01	9.89E-08	2.49E-07	6.38E-11
227	2	Surface	Chromium	mg/kg	5.63E+01	1.05E-05	1.88E-04	6.75E-09
227	2	Surface	Cobalt	mg/kg	8.99E+00	1.67E-06	3.01E-05	1.08E-09
227	2	Surface	Cobalt-60	pCi/g	1.37E-02	2.55E-09		1.64E-12
227	2	Surface	Mercury	mg/kg	8.41E+00	1.56E-06	2.81E-05	3.03E-05
227	2	Surface	Nickel	mg/kg	1.25E+02	2.32E-05	3.34E-04	1.50E-08
227	2	Surface	PCB, Total	mg/kg	5.82E+00	1.08E-06	5.45E-05	1.19E-06
227	2	Surface	Total PAH	mg/kg	1.16E-01	2.15E-08	1.01E-06	1.03E-09
227	2	Surface	Uranium	mg/kg	1.51E+01	2.80E-06	5.03E-05	1.80E-09
227	2	Surface	Uranium-238	pCi/g	1.57E+00	2.92E-07		1.89E-10
228	1	Surface	Antimony	mg/kg	6.30E-01	1.17E-07	2.11E-06	7.55E-11
228	1	Surface	Cadmium	mg/kg	3.90E+00	7.25E-07	2.61E-07	4.68E-10
228	1	Surface	Chromium	mg/kg	1.89E+02	3.51E-05	6.32E-04	2.26E-08
228	1	Surface	Mercury	mg/kg	9.37E+00	1.74E-06	3.13E-05	3.37E-05
228	1	Surface	Neptunium-237	pCi/g	8.00E-01	1.49E-07		9.59E-11
228	1	Surface	Nickel	mg/kg	7.92E+01	1.47E-05	2.12E-04	9.49E-09
228	1	Surface	Silver	mg/kg	1.16E+01	2.16E-06	3.11E-05	1.39E-09
228	1	Surface	Total PAH	mg/kg	6.69E-02	1.24E-08	5.82E-07	5.95E-10
228	1	Surface	Uranium	mg/kg	1.51E+01	2.81E-06	5.06E-05	1.81E-09
228	1	Surface	Uranium-235	pCi/g	1.78E-01	3.31E-08		2.13E-11
228	1	Surface	Uranium-238	pCi/g	3.77E+00	7.01E-07		4.52E-10
229	1	Surface	Nickel	mg/kg	9.14E+01	1.70E-05	2.45E-04	1.10E-08
229	1	Surface	Total PAH	mg/kg	1.57E-01	2.91E-08	1.36E-06	1.40E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
229	1	Surface	Uranium	mg/kg	1.56E+02	2.90E-05	5.21E-04	1.87E-08
229	1	Surface	Uranium-238	pCi/g	2.86E+00	5.31E-07		3.43E-10
229	2	Surface	Arsenic	mg/kg	2.12E+01	3.94E-06	4.25E-05	2.54E-09
229	2	Surface	Beryllium	mg/kg	7.90E-01	1.47E-07	3.70E-07	9.47E-11
229	2	Surface	Chromium	mg/kg	2.91E+01	5.42E-06	9.75E-05	3.49E-09
229	2	Surface	Neptunium-237	pCi/g	2.87E-01	5.33E-08		3.44E-11
229	2	Surface	Nickel	mg/kg	9.93E+01	1.84E-05	2.66E-04	1.19E-08
229	2	Surface	Total PAH	mg/kg	1.69E+00	3.15E-07	1.47E-05	1.51E-08
229	2	Surface	Uranium	mg/kg	7.45E+01	1.38E-05	2.49E-04	8.93E-09
229	2	Surface	Uranium-234	pCi/g	1.22E+01	2.27E-06		1.46E-09
229	2	Surface	Uranium-235	pCi/g	8.40E-01	1.56E-07		1.01E-10
229	2	Surface	Uranium-238	pCi/g	2.49E+01	4.63E-06		2.99E-09
483	1	Surface	Nickel	mg/kg	1.17E+02	2.17E-05	3.12E-04	1.40E-08
483	1	Surface	Silver	mg/kg	1.12E+01	2.08E-06	2.99E-05	1.34E-09
483	1	Surface	Total PAH	mg/kg	2.39E-02	4.44E-09	2.08E-07	2.13E-10
486	1	Surface	Cesium-137	pCi/g				
487	1	Surface	Cesium-137	pCi/g				
488	1	Surface	Cesium-137	pCi/g	5.20E-01	9.66E-08		6.23E-11
488	1	Surface	PCB, Total	mg/kg	1.03E+01	1.91E-06	9.65E-05	2.10E-06
488	1	Surface	Total PAH	mg/kg	2.50E-01	4.64E-08	2.17E-06	2.22E-09
488	1	Surface	Uranium	mg/kg	1.48E+01	2.75E-06	4.95E-05	1.77E-09
488	1	Surface	Uranium-235	pCi/g	1.49E-01	2.77E-08		1.79E-11
488	1	Surface	Uranium-238	pCi/g	4.54E+00	8.44E-07		5.44E-10
489	1	Surface	Chromium	mg/kg	4.16E+01	7.74E-06	1.39E-04	4.99E-09
489	1	Surface	Nickel	mg/kg	7.88E+01	1.46E-05	2.11E-04	9.45E-09
489	1	Surface	Total PAH	mg/kg	8.22E-02	1.53E-08	7.15E-07	7.31E-10
489	1	Surface	Uranium-238	pCi/g	1.47E+00	2.73E-07		1.76E-10
492	1	Surface	Arsenic	mg/kg	1.47E+01	2.73E-06	2.95E-05	1.76E-09
492	1	Surface	Beryllium	mg/kg	1.04E+01	1.93E-06	4.87E-06	1.25E-09
492	1	Surface	Cadmium	mg/kg	3.14E+00	5.84E-07	2.10E-07	3.76E-10
492	1	Surface	Chromium	mg/kg	1.04E+03	1.93E-04	3.48E-03	1.25E-07
492	1	Surface	Cobalt-60	pCi/g	9.63E-03	1.79E-09		1.15E-12
492	1	Surface	Neptunium-237	pCi/g	2.09E-01	3.88E-08		2.51E-11
492	1	Surface	PCB, Total	mg/kg	4.41E+01	8.20E-06	4.13E-04	8.98E-06
492	1	Surface	Uranium	mg/kg	1.77E+03	3.29E-04	5.92E-03	2.12E-07
492	1	Surface	Uranium-234	pCi/g	5.39E+01	1.00E-05		6.46E-09
492	1	Surface	Uranium-235	pCi/g	5.72E+00	1.06E-06		6.86E-10
492	1	Surface	Uranium-238	pCi/g	3.83E+02	7.12E-05		4.59E-08
492	1	Surface	Vanadium	mg/kg	4.32E+01	8.03E-06	7.51E-05	5.18E-09
493	1	Surface	Aluminum	mg/kg	1.44E+04	2.68E-03	4.82E-02	1.73E-06
493	1	Surface	Barium	mg/kg	4.04E+02	7.51E-05	1.35E-03	4.84E-08
493	1	Surface	Beryllium	mg/kg	9.91E-01	1.84E-07	4.64E-07	1.19E-10
493	1	Surface	Chromium	mg/kg	6.61E+01	1.23E-05	2.21E-04	7.92E-09
493	1	Surface	Cobalt	mg/kg	3.79E+01	7.04E-06	1.27E-04	4.54E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
493	1	Surface	Cobalt-60	pCi/g	1.36E-02	2.53E-09		1.63E-12
493	1	Surface	Manganese	mg/kg	3.55E+03	6.60E-04	9.50E-03	4.26E-07
493	1	Surface	Mercury	mg/kg	2.60E-01	4.83E-08	8.70E-07	9.35E-07
493	1	Surface	Neptunium-237	pCi/g	1.22E-01	2.27E-08		1.46E-11
493	1	Surface	Nickel	mg/kg	2.13E+02	3.96E-05	5.70E-04	2.55E-08
493	1	Surface	PCB, Total	mg/kg	2.60E-01	4.83E-08	2.44E-06	5.29E-08
493	1	Surface	Total PAH	mg/kg	5.00E-01	9.29E-08	4.35E-06	4.45E-09
493	1	Surface	Uranium-235	pCi/g	1.65E-01	3.07E-08		1.98E-11
493	1	Surface	Uranium-238	pCi/g	5.50E+00	1.02E-06		6.59E-10
493	1	Surface	Vanadium	mg/kg	4.05E+01	7.53E-06	7.04E-05	4.86E-09
517	1	Surface	Beryllium	mg/kg	7.39E-01	1.37E-07	3.46E-07	8.86E-11
517	1	Surface	Chromium	mg/kg	4.91E+01	9.12E-06	1.64E-04	5.89E-09
517	1	Surface	Cobalt-60	pCi/g	6.39E-03	1.19E-09		7.66E-13
517	1	Surface	Neptunium-237	pCi/g	1.07E+00	1.99E-07		1.28E-10
517	1	Surface	Nickel	mg/kg	1.72E+02	3.20E-05	4.60E-04	2.06E-08
517	1	Surface	PCB, Total	mg/kg	5.00E-01	9.29E-08	4.68E-06	1.02E-07
517	1	Surface	Uranium-235	pCi/g	1.60E-01	2.97E-08		1.92E-11
517	1	Surface	Uranium-238	pCi/g	3.89E+00	7.23E-07		4.66E-10
518	1	Surface	Carbazole	mg/kg	1.17E+01	2.18E-06	7.84E-05	6.55E-07
518	1	Surface	Cobalt	mg/kg	6.80E+00	1.26E-06	2.28E-05	8.16E-10
518	1	Surface	Nickel	mg/kg	1.29E+01	2.39E-06	3.44E-05	1.54E-09
518	1	Surface	PCB, Total	mg/kg	6.30E-01	1.17E-07	5.90E-06	1.28E-07
518	1	Surface	Pyrene	mg/kg	3.94E+01	7.33E-06	3.43E-04	3.12E-06
518	1	Surface	Total PAH	mg/kg	4.64E+00	8.62E-07	4.03E-05	4.13E-08
518	1	Surface	Uranium	mg/kg	2.17E+02	4.03E-05	7.26E-04	2.60E-08
518	1	Surface	Uranium-235	pCi/g	6.74E-02	1.25E-08		8.08E-12
518	1	Surface	Uranium-238	pCi/g	1.51E+00	2.81E-07		1.82E-10
520	1	Surface	Cesium-137	pCi/g	9.62E-01	1.79E-07		1.15E-10
520	1	Surface	Chromium	mg/kg	3.17E+01	5.90E-06	1.06E-04	3.80E-09
520	1	Surface	Iron	mg/kg	1.56E+04	2.90E-03	5.21E-02	1.87E-06
520	1	Surface	Mercury	mg/kg	1.07E+01	1.98E-06	3.57E-05	3.84E-05
520	1	Surface	Neptunium-237	pCi/g	6.56E-01	1.22E-07		7.86E-11
520	1	Surface	Nickel	mg/kg	2.60E+02	4.84E-05	6.97E-04	3.12E-08
520	1	Surface	Silver	mg/kg	1.30E+01	2.41E-06	3.47E-05	1.56E-09
520	1	Surface	Thorium-230	pCi/g	1.13E+01	2.11E-06		1.36E-09
520	1	Surface	Total PAH	mg/kg	3.18E-02	5.92E-09	2.77E-07	2.83E-10
520	1	Surface	Uranium	mg/kg	2.29E+01	4.26E-06	7.67E-05	2.75E-09
520	1	Surface	Uranium-235	pCi/g	1.26E-01	2.34E-08		1.51E-11
520	1	Surface	Uranium-238	pCi/g	3.93E+00	7.30E-07		4.71E-10
520	2	Surface	Beryllium	mg/kg	5.79E-01	1.08E-07	2.71E-07	6.94E-11
520	2	Surface	Chromium	mg/kg	6.67E+01	1.24E-05	2.23E-04	7.99E-09
520	2	Surface	Manganese	mg/kg	5.89E+02	1.10E-04	1.58E-03	7.07E-08
520	2	Surface	Mercury	mg/kg	1.19E+01	2.21E-06	3.97E-05	4.27E-05
520	2	Surface	Neptunium-237	pCi/g	7.48E-02	1.39E-08		8.97E-12

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
520	2	Surface	Nickel	mg/kg	3.11E+02	5.77E-05	8.31E-04	3.72E-08
520	2	Surface	Total PAH	mg/kg	3.17E-01	5.89E-08	2.76E-06	2.82E-09
520	2	Surface	Uranium	mg/kg	3.96E+01	7.35E-06	1.32E-04	4.74E-09
520	2	Surface	Uranium-238	pCi/g	1.78E+00	3.30E-07		2.13E-10
520	3	Surface	Chromium	mg/kg	3.97E+01	7.37E-06	1.33E-04	4.76E-09
520	3	Surface	Copper	mg/kg	1.19E+02	2.21E-05	3.98E-04	1.43E-08
520	3	Surface	Nickel	mg/kg	2.65E+02	4.92E-05	7.09E-04	3.17E-08
520	3	Surface	Silver	mg/kg	1.27E+01	2.35E-06	3.39E-05	1.52E-09
520	3	Surface	Total PAH	mg/kg	1.18E-01	2.19E-08	1.03E-06	1.05E-09
520	3	Surface	Uranium	mg/kg	1.92E+01	3.57E-06	6.43E-05	2.31E-09
520	3	Surface	Uranium-238	pCi/g	1.57E+00	2.92E-07		1.88E-10
520	4	Surface	Chromium	mg/kg	3.82E+01	7.10E-06	1.28E-04	4.58E-09
520	4	Surface	Copper	mg/kg	1.11E+02	2.06E-05	3.70E-04	1.33E-08
520	4	Surface	Mercury	mg/kg	9.69E+00	1.80E-06	3.24E-05	3.49E-05
520	4	Surface	Neptunium-237	pCi/g	7.40E-01	1.38E-07		8.87E-11
520	4	Surface	Nickel	mg/kg	2.82E+02	5.24E-05	7.54E-04	3.38E-08
520	4	Surface	Silver	mg/kg	1.04E+01	1.94E-06	2.79E-05	1.25E-09
520	4	Surface	Total PAH	mg/kg	5.52E-01	1.03E-07	4.80E-06	4.92E-09
520	4	Surface	Uranium	mg/kg	2.40E+01	4.46E-06	8.03E-05	2.88E-09
520	4	Surface	Uranium-235	pCi/g	2.42E-01	4.50E-08		2.90E-11
520	4	Surface	Uranium-238	pCi/g	6.26E+00	1.16E-06		7.51E-10
520	5	Surface	Antimony	mg/kg	9.60E-01	1.78E-07	3.21E-06	1.15E-10
520	5	Surface	Chromium	mg/kg	3.68E+01	6.84E-06	1.23E-04	4.41E-09
520	5	Surface	Neptunium-237	pCi/g	1.55E-01	2.88E-08		1.86E-11
520	5	Surface	Nickel	mg/kg	1.47E+02	2.73E-05	3.93E-04	1.76E-08
520	5	Surface	Total PAH	mg/kg	3.87E-01	7.20E-08	3.37E-06	3.45E-09
520	5	Surface	Uranium-238	pCi/g	1.45E+00	2.69E-07		1.74E-10
531	1	Surface	Antimony	mg/kg	1.00E+00	1.86E-07	3.35E-06	1.20E-10
531	1	Surface	Arsenic	mg/kg	4.68E+01	8.70E-06	9.40E-05	5.61E-09
531	1	Surface	Cadmium	mg/kg	3.10E+00	5.76E-07	2.07E-07	3.72E-10
531	1	Surface	Chromium	mg/kg	5.05E+01	9.38E-06	1.69E-04	6.05E-09
531	1	Surface	Iron	mg/kg	5.68E+04	1.06E-02	1.90E-01	6.81E-06
531	1	Surface	Nickel	mg/kg	1.62E+02	3.01E-05	4.34E-04	1.95E-08
531	1	Surface	Total PAH	mg/kg	5.34E-02	9.92E-09	4.64E-07	4.75E-10
531	1	Surface	Uranium	mg/kg	2.41E+01	4.47E-06	8.05E-05	2.89E-09
531	1	Surface	Uranium-235	pCi/g	1.38E-01	2.56E-08		1.65E-11
531	1	Surface	Uranium-238	pCi/g	3.48E+00	6.47E-07		4.17E-10
531	1	Surface	Zinc	mg/kg	2.45E+03	4.56E-04	8.20E-03	2.94E-07
541	1	Surface	Aluminum	mg/kg	1.43E+04	2.66E-03	4.78E-02	1.71E-06
541	1	Surface	Americium-241	pCi/g	7.53E+00	1.40E-06		9.03E-10
541	1	Surface	Barium	mg/kg	1.28E+02	2.38E-05	4.28E-04	1.53E-08
541	1	Surface	Beryllium	mg/kg	6.98E-01	1.30E-07	3.27E-07	8.37E-11
541	1	Surface	Cadmium	mg/kg	1.68E+00	3.13E-07	1.13E-07	2.02E-10
541	1	Surface	Cesium-137	pCi/g	9.58E-01	1.78E-07		1.15E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
541	1	Surface	Chromium	mg/kg	8.24E+02	1.53E-04	2.76E-03	9.88E-08
541	1	Surface	Cobalt-60	pCi/g	1.01E-02	1.88E-09		1.21E-12
541	1	Surface	Iron	mg/kg	1.60E+04	2.97E-03	5.34E-02	1.91E-06
541	1	Surface	Mercury	mg/kg	9.81E-02	1.82E-08	3.28E-07	3.53E-07
541	1	Surface	Naphthalene	mg/kg	6.55E-01	1.22E-07	1.10E-05	2.64E-06
541	1	Surface	Neptunium-237	pCi/g	5.52E-02	1.03E-08		6.62E-12
541	1	Surface	Nickel	mg/kg	1.52E+01	2.83E-06	4.08E-05	1.83E-09
541	1	Surface	PCB, Total	mg/kg	6.06E+01	1.13E-05	5.68E-04	1.23E-05
541	1	Surface	Total PAH	mg/kg	2.33E+00	4.33E-07	2.03E-05	2.07E-08
541	1	Surface	Uranium	mg/kg	6.38E+03	1.19E-03	2.14E-02	7.65E-07
541	1	Surface	Uranium-234	pCi/g	1.43E+02	2.66E-05		1.71E-08
541	1	Surface	Uranium-235	pCi/g	1.76E+01	3.26E-06		2.11E-09
541	1	Surface	Uranium-238	pCi/g	1.00E+03	1.86E-04		1.20E-07
541	1	Surface	Vanadium	mg/kg	3.04E+01	5.66E-06	5.29E-05	3.65E-09
561	1	Surface	Antimony	mg/kg	9.36E-01	1.74E-07	3.13E-06	1.12E-10
561	1	Surface	Arsenic	mg/kg	1.66E+01	3.08E-06	3.32E-05	1.98E-09
561	1	Surface	Barium	mg/kg	1.40E+02	2.61E-05	4.69E-04	1.68E-08
561	1	Surface	Beryllium	mg/kg	6.85E-01	1.27E-07	3.21E-07	8.21E-11
561	1	Surface	Chromium	mg/kg	8.58E+01	1.59E-05	2.87E-04	1.03E-08
561	1	Surface	Cobalt	mg/kg	1.07E+01	1.99E-06	3.58E-05	1.28E-09
561	1	Surface	Cobalt-60	pCi/g	7.06E-02	1.31E-08		8.46E-12
561	1	Surface	Iron	mg/kg	2.05E+04	3.80E-03	6.85E-02	2.45E-06
561	1	Surface	Manganese	mg/kg	1.61E+03	2.99E-04	4.31E-03	1.93E-07
561	1	Surface	Neptunium-237	pCi/g	2.71E-02	5.04E-09		3.25E-12
561	1	Surface	PCB, Total	mg/kg	1.04E+00	1.94E-07	9.76E-06	2.12E-07
561	1	Surface	Thallium	mg/kg	3.33E-01	6.19E-08	1.11E-06	3.99E-11
561	1	Surface	Total PAH	mg/kg	1.65E-01	3.07E-08	1.44E-06	1.47E-09
561	1	Surface	Uranium	mg/kg	2.65E+02	4.92E-05	8.86E-04	3.17E-08
561	1	Surface	Uranium-234	pCi/g	7.84E+00	1.46E-06		9.40E-10
561	1	Surface	Uranium-235	pCi/g	1.37E+00	2.54E-07		1.64E-10
561	1	Surface	Uranium-238	pCi/g	1.07E+02	1.98E-05		1.28E-08
561	1	Surface	Vanadium	mg/kg	3.76E+01	6.99E-06	6.55E-05	4.51E-09
561	2	Surface	Antimony	mg/kg	5.33E+00	9.91E-07	1.78E-05	6.40E-10
561	2	Surface	Arsenic	mg/kg	1.30E+01	2.42E-06	2.61E-05	1.56E-09
561	2	Surface	Beryllium	mg/kg	6.34E-01	1.18E-07	2.97E-07	7.60E-11
561	2	Surface	Cadmium	mg/kg	4.13E-01	7.67E-08	2.76E-08	4.95E-11
561	2	Surface	Cesium-137	pCi/g	4.09E-01	7.60E-08		4.90E-11
561	2	Surface	Chromium	mg/kg	2.88E+02	5.36E-05	9.64E-04	3.46E-08
561	2	Surface	Cobalt	mg/kg	1.14E+01	2.12E-06	3.81E-05	1.37E-09
561	2	Surface	Cobalt-60	pCi/g	2.76E-02	5.13E-09		3.31E-12
561	2	Surface	Manganese	mg/kg	1.12E+03	2.07E-04	2.98E-03	1.34E-07
561	2	Surface	Neptunium-237	pCi/g	4.71E-02	8.75E-09		5.65E-12
561	2	Surface	PCB, Total	mg/kg	1.64E+01	3.04E-06	1.53E-04	3.33E-06
561	2	Surface	Thallium	mg/kg	4.09E-01	7.60E-08	1.37E-06	4.90E-11

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
561	2	Surface	Total PAH	mg/kg	4.43E-01	8.23E-08	3.85E-06	3.94E-09
561	2	Surface	Uranium	mg/kg	1.38E+03	2.57E-04	4.63E-03	1.66E-07
561	2	Surface	Uranium-234	pCi/g	4.06E+01	7.55E-06		4.87E-09
561	2	Surface	Uranium-235	pCi/g	7.09E+00	1.32E-06		8.50E-10
561	2	Surface	Uranium-238	pCi/g	4.00E+02	7.44E-05		4.80E-08
561	2	Surface	Vanadium	mg/kg	3.46E+01	6.42E-06	6.01E-05	4.14E-09
562	1	Surface	Uranium	mg/kg	8.73E+01	1.62E-05	2.92E-04	1.05E-08
562	1	Surface	Uranium-238	pCi/g	2.73E+00	5.07E-07		3.27E-10
562	2	Surface	PCB, Total	mg/kg	1.58E+00	2.94E-07	1.48E-05	3.22E-07
562	2	Surface	Uranium-234	pCi/g	5.34E+01	9.92E-06		6.40E-09
562	2	Surface	Uranium-235	pCi/g	8.96E+00	1.67E-06		1.07E-09
562	2	Surface	Uranium-238	pCi/g	5.81E+02	1.08E-04		6.97E-08
562	3	Surface	Chromium	mg/kg	3.82E+01	7.09E-06	1.28E-04	4.58E-09
562	3	Surface	PCB, Total	mg/kg	2.40E-01	4.46E-08	2.25E-06	4.89E-08
562	3	Surface	Total PAH	mg/kg	2.20E-01	4.09E-08	1.91E-06	1.96E-09
562	3	Surface	Uranium	mg/kg	5.89E+01	1.09E-05	1.97E-04	7.06E-09
562	3	Surface	Uranium-235	pCi/g	1.63E-01	3.03E-08		1.95E-11
562	3	Surface	Uranium-238	pCi/g	1.09E+01	2.03E-06		1.31E-09
562	4	Surface	Chromium	mg/kg	4.67E+01	8.67E-06	1.56E-04	5.59E-09
562	4	Surface	Uranium	mg/kg	2.10E+01	3.90E-06	7.02E-05	2.52E-09
562	4	Surface	Uranium-238	pCi/g	2.24E+00	4.16E-07		2.69E-10
562	5	Surface	Chromium	mg/kg	1.53E+02	2.85E-05	5.12E-04	1.84E-08
562	5	Surface	PCB, Total	mg/kg	9.50E-01	1.77E-07	8.90E-06	1.93E-07
562	5	Surface	Total PAH	mg/kg	7.05E-02	1.31E-08	6.13E-07	6.27E-10
562	5	Surface	Uranium	mg/kg	2.08E+02	3.87E-05	6.96E-04	2.49E-08
562	5	Surface	Uranium-234	pCi/g	8.57E+00	1.59E-06		1.03E-09
562	5	Surface	Uranium-235	pCi/g	5.68E-01	1.06E-07		6.81E-11
562	5	Surface	Uranium-235	pCi/g	9.50E-01	1.77E-07		1.14E-10
562	5	Surface	Uranium-238	pCi/g	6.24E+01	1.16E-05		7.48E-09
563	1	Surface	Cadmium	mg/kg	8.96E-01	1.67E-07	5.99E-08	1.07E-10
563	1	Surface	Chromium	mg/kg	2.85E+02	5.30E-05	9.53E-04	3.42E-08
563	1	Surface	PCB, Total	mg/kg	7.40E-01	1.38E-07	6.93E-06	1.51E-07
563	1	Surface	Uranium	mg/kg	1.51E+01	2.80E-06	5.05E-05	1.81E-09
563	1	Surface	Uranium-238	pCi/g	2.76E+00	5.13E-07		3.31E-10
563	2	Surface	Cesium-137	pCi/g	6.47E-01	1.20E-07		7.76E-11
563	2	Surface	Uranium-238	pCi/g	1.49E+00	2.77E-07		1.79E-10
564	1	Surface	Arsenic	mg/kg	4.30E+01	7.99E-06	8.63E-05	5.16E-09
564	1	Surface	Beryllium	mg/kg	2.12E+00	3.94E-07	9.93E-07	2.54E-10
564	1	Surface	Cadmium	mg/kg	1.96E+00	3.64E-07	1.31E-07	2.35E-10
564	1	Surface	Cesium-137	pCi/g	6.20E-01	1.15E-07		7.43E-11
564	1	Surface	Chromium	mg/kg	7.49E+01	1.39E-05	2.51E-04	8.98E-09
564	1	Surface	Iron	mg/kg	3.66E+04	6.80E-03	1.22E-01	4.39E-06
564	1	Surface	Mercury	mg/kg	2.30E-01	4.27E-08	7.69E-07	8.27E-07
564	1	Surface	Nickel	mg/kg	2.24E+01	4.16E-06	5.99E-05	2.69E-09

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.19. Noncancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation
564	1	Surface	PCB, Total	mg/kg	1.93E+00	3.59E-07	1.81E-05	3.93E-07
564	1	Surface	Thallium	mg/kg	2.36E+00	4.39E-07	7.89E-06	2.83E-10
564	1	Surface	Thorium-230	pCi/g	5.01E+00	9.31E-07		6.01E-10
564	1	Surface	Uranium	mg/kg	5.83E+01	1.08E-05	1.95E-04	6.99E-09
564	1	Surface	Uranium-234	pCi/g	6.93E+00	1.29E-06		8.31E-10
564	1	Surface	Uranium-235	pCi/g	3.37E-01	6.26E-08		4.04E-11
564	1	Surface	Uranium-235	pCi/g	3.87E-01	7.19E-08		4.64E-11
564	1	Surface	Uranium-238	pCi/g	8.33E+00	1.55E-06		9.99E-10
564	1	Surface	Vanadium	mg/kg	8.06E+01	1.50E-05	1.40E-04	9.66E-09
567	3	Surface	Chromium	mg/kg	3.79E+01	7.04E-06	1.27E-04	4.54E-09
567	4	Surface	Aluminum	mg/kg	1.25E+04	2.33E-03	4.19E-02	1.50E-06
567	4	Surface	Chromium	mg/kg	1.63E+01	3.03E-06	5.45E-05	1.95E-09
567	4	Surface	Uranium-238	pCi/g	1.05E+00	1.95E-07		1.26E-10

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
1	1	Surface	Beryllium	mg/kg	3.89E+00	1.24E-07	3.13E-07	8.00E-11	
1	1	Surface	Cadmium	mg/kg	1.10E+00	3.50E-08	1.26E-08	2.26E-11	
1	1	Surface	Cesium-137	pCi/g	5.91E-01	2.07E+01		1.33E-02	5.67E-01
1	1	Surface	Chromium	mg/kg	1.28E+01	4.08E-07	7.35E-06	2.63E-10	
1	1	Surface	Neptunium-237	pCi/g	4.02E-01	1.41E+01		9.08E-03	3.85E-01
1	1	Surface	PCB, Total	mg/kg	1.76E-01	5.61E-09	2.83E-07	6.14E-09	
1	1	Surface	Plutonium-239/240	pCi/g	6.14E+00	2.15E+02		1.39E-01	5.89E+00
1	1	Surface	Thorium-230	pCi/g	4.40E+01	1.54E+03		9.94E-01	4.22E+01
1	1	Surface	Uranium-235	pCi/g	1.06E-01	3.71E+00		2.39E-03	1.02E-01
1	1	Surface	Uranium-238	pCi/g	1.97E+00	6.91E+01		4.46E-02	1.89E+00
1	2	Surface	Beryllium	mg/kg	8.23E+00	2.62E-07	6.61E-07	1.69E-10	
1	2	Surface	Cadmium	mg/kg	6.46E+00	2.06E-07	7.41E-08	1.33E-10	
1	2	Surface	Chromium	mg/kg	2.01E+02	6.41E-06	1.15E-04	4.14E-09	
1	2	Surface	Copper	mg/kg	1.81E+02	5.76E-06	1.04E-04	3.72E-09	
1	2	Surface	Mercury	mg/kg	5.94E+00	1.89E-07	3.41E-06	3.66E-06	
1	2	Surface	Nickel	mg/kg	5.75E+01	1.83E-06	2.64E-05	1.18E-09	
1	2	Surface	PCB, Total	mg/kg	3.22E+01	1.03E-06	5.17E-05	1.12E-06	
1	2	Surface	Silver	mg/kg	3.31E+01	1.06E-06	1.52E-05	6.81E-10	
1	2	Surface	Thallium	mg/kg	3.70E-01	1.18E-08	2.12E-07	7.60E-12	
1	2	Surface	Vanadium	mg/kg	3.49E+01	1.11E-06	1.04E-05	7.16E-10	
1	3	Surface	Chromium	mg/kg	1.45E+01	4.61E-07	8.30E-06	2.97E-10	
1	3	Surface	PCB, Total	mg/kg	2.17E-01	6.91E-09	3.48E-07	7.57E-09	
1	3	Surface	Uranium-238	pCi/g	1.73E+00	6.06E+01		3.91E-02	1.66E+00
1	4	Surface	Beryllium	mg/kg	7.25E-01	2.31E-08	5.82E-08	1.49E-11	
1	4	Surface	Chromium	mg/kg	9.30E+01	2.96E-06	5.33E-05	1.91E-09	
1	4	Surface	Cobalt-60	pCi/g	2.20E-02	7.70E-01		4.97E-04	2.11E-02
1	4	Surface	Nickel	mg/kg	4.69E+01	1.49E-06	2.15E-05	9.63E-10	
1	4	Surface	PCB, Total	mg/kg	1.30E-01	4.14E-09	2.09E-07	4.54E-09	
1	4	Surface	Thorium-230	pCi/g	5.03E+00	1.76E+02		1.14E-01	4.82E+00
1	5	Surface	Beryllium	mg/kg	8.30E+00	2.64E-07	6.66E-07	1.71E-10	
1	5	Surface	Cadmium	mg/kg	1.20E+00	3.82E-08	1.38E-08	2.47E-11	
1	5	Surface	Nickel	mg/kg	4.07E+01	1.30E-06	1.87E-05	8.37E-10	
1	5	Surface	PCB, Total	mg/kg	2.70E-01	8.60E-09	4.34E-07	9.42E-09	
1	5	Surface	Total PAH	mg/kg	9.83E-02	3.13E-09	1.47E-07	1.50E-10	
12	1	Surface	Aluminum	mg/kg	8.19E+03	2.61E-04	4.70E-03	1.68E-07	
12	1	Surface	Antimony	mg/kg	5.04E-01	1.61E-08	2.89E-07	1.04E-11	
12	1	Surface	Arsenic	mg/kg	1.34E+01	4.27E-07	4.61E-06	2.75E-10	
12	1	Surface	Barium	mg/kg	1.04E+02	3.30E-06	5.95E-05	2.13E-09	
12	1	Surface	Beryllium	mg/kg	6.72E+00	2.14E-07	5.39E-07	1.38E-10	
12	1	Surface	Cadmium	mg/kg	1.02E+00	3.25E-08	1.17E-08	2.10E-11	
12	1	Surface	Chromium	mg/kg	6.33E+01	2.02E-06	3.63E-05	1.30E-09	
12	1	Surface	Cobalt	mg/kg	9.16E+00	2.92E-07	5.25E-06	1.88E-10	
12	1	Surface	Iron	mg/kg	3.01E+04	9.58E-04	1.72E-02	6.18E-07	
12	1	Surface	Manganese	mg/kg	1.01E+03	3.23E-05	4.65E-04	2.08E-08	
12	1	Surface	Mercury	mg/kg	8.80E+00	2.80E-07	5.05E-06	5.43E-06	
12	1	Surface	Molybdenum	mg/kg	1.74E+01	5.55E-07	9.99E-06	3.58E-10	
12	1	Surface	Nickel	mg/kg	7.74E+01	2.47E-06	3.55E-05	1.59E-09	
12	1	Surface	PCB, Total	mg/kg	3.90E-01	1.24E-08	6.26E-07	1.36E-08	
12	1	Surface	Silver	mg/kg	1.10E+01	3.51E-07	5.06E-06	2.26E-10	
12	1	Surface	Thallium	mg/kg	1.03E+00	3.28E-08	5.91E-07	2.12E-11	
12	1	Surface	Total PAH	mg/kg	1.70E-01	5.42E-09	2.53E-07	2.59E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
12	1	Surface	Uranium	mg/kg	3.76E+02	1.20E-05	2.15E-04	7.72E-09	
12	1	Surface	Uranium-234	pCi/g	1.50E+01	5.26E+02		3.39E-01	1.44E+01
12	1	Surface	Uranium-235	pCi/g	1.53E+00	5.34E+01		3.45E-02	1.46E+00
12	1	Surface	Uranium-238	pCi/g	6.68E+01	2.34E+03		1.51E+00	6.41E+01
12	1	Surface	Vanadium	mg/kg	2.80E+01	8.93E-07	8.36E-06	5.76E-10	
13	1	Surface	PCB, Total	mg/kg	7.00E-01	2.23E-08	1.12E-06	2.44E-08	
13	4	Surface	Uranium-238	pCi/g	1.32E+00	4.62E+01		2.98E-02	1.27E+00
13	5	Surface	Aluminum	mg/kg	1.13E+04	3.59E-04	6.46E-03	2.31E-07	
13	5	Surface	Antimony	mg/kg	8.20E-01	2.61E-08	4.70E-07	1.69E-11	
13	5	Surface	Cadmium	mg/kg	1.20E+00	3.82E-08	1.38E-08	2.47E-11	
13	5	Surface	Chromium	mg/kg	1.51E+01	4.81E-07	8.66E-06	3.10E-10	
13	5	Surface	Nickel	mg/kg	1.17E+02	3.71E-06	5.34E-05	2.39E-09	
13	5	Surface	PCB, Total	mg/kg	1.05E+00	3.34E-08	1.68E-06	3.66E-08	
13	5	Surface	Total PAH	mg/kg	6.65E-02	2.12E-09	9.91E-08	1.01E-10	
13	5	Surface	Uranium	mg/kg	1.19E+02	3.79E-06	6.83E-05	2.45E-09	
13	6	Surface	Uranium-238	pCi/g	1.32E+00	4.61E+01		2.97E-02	1.26E+00
13	9	Surface	Neptunium-237	pCi/g	8.90E-01	3.12E+01		2.01E-02	8.53E-01
13	9	Surface	Uranium	mg/kg	1.82E+01	5.80E-07	1.04E-05	3.74E-10	
13	9	Surface	Uranium-235	pCi/g	3.11E-01	1.09E+01		7.02E-03	2.98E-01
13	9	Surface	Uranium-238	pCi/g	6.08E+00	2.13E+02		1.37E-01	5.83E+00
13	11	Surface	Cobalt-60	pCi/g	1.30E-02	4.55E-01		2.94E-04	1.25E-02
14	1	Surface	Americium-241	pCi/g	1.27E+00	4.43E+01		2.86E-02	1.21E+00
14	1	Surface	Arsenic	mg/kg	1.10E+01	3.50E-07	3.78E-06	2.26E-10	
14	1	Surface	Chromium	mg/kg	6.36E+01	2.03E-06	3.65E-05	1.31E-09	
14	1	Surface	Iron	mg/kg	1.89E+04	6.01E-04	1.08E-02	3.88E-07	
14	1	Surface	Neptunium-237	pCi/g	2.14E-01	7.49E+00		4.83E-03	2.05E-01
14	1	Surface	Nickel	mg/kg	1.40E+02	4.45E-06	6.41E-05	2.87E-09	
14	1	Surface	PCB, Total	mg/kg	5.00E-01	1.59E-08	8.03E-07	1.75E-08	
14	1	Surface	Silver	mg/kg	1.67E+01	5.32E-07	7.66E-06	3.43E-10	
14	1	Surface	Technetium-99	pCi/g	4.06E+02	1.42E+04		9.17E+00	3.89E+02
14	1	Surface	Uranium	mg/kg	7.21E+01	2.30E-06	4.14E-05	1.48E-09	
14	1	Surface	Uranium-238	pCi/g	1.69E+00	5.92E+01		3.82E-02	1.62E+00
14	2	Surface	Antimony	mg/kg	3.70E+00	1.18E-07	2.12E-06	7.60E-11	
14	2	Surface	Arsenic	mg/kg	1.45E+01	4.63E-07	5.00E-06	2.99E-10	
14	2	Surface	Beryllium	mg/kg	7.10E-01	2.26E-08	5.70E-08	1.46E-11	
14	2	Surface	Chromium	mg/kg	6.65E+01	2.12E-06	3.82E-05	1.37E-09	
14	2	Surface	Copper	mg/kg	1.76E+02	5.62E-06	1.01E-04	3.63E-09	
14	2	Surface	Iron	mg/kg	3.72E+04	1.18E-03	2.13E-02	7.64E-07	
14	2	Surface	Manganese	mg/kg	1.44E+03	4.59E-05	6.62E-04	2.96E-08	
14	2	Surface	Mercury	mg/kg	2.67E-01	8.51E-09	1.53E-07	1.65E-07	
14	2	Surface	Neptunium-237	pCi/g	7.70E-01	2.70E+01		1.74E-02	7.38E-01
14	2	Surface	Nickel	mg/kg	6.78E+02	2.16E-05	3.11E-04	1.39E-08	
14	2	Surface	PCB, Total	mg/kg	3.90E-01	1.24E-08	6.26E-07	1.36E-08	
14	2	Surface	Thorium-230	pCi/g	5.98E+00	2.09E+02		1.35E-01	5.73E+00
14	2	Surface	Total PAH	mg/kg	3.38E-01	1.08E-08	5.04E-07	5.16E-10	
14	2	Surface	Uranium	mg/kg	2.93E+02	9.34E-06	1.68E-04	6.03E-09	
14	2	Surface	Uranium-234	pCi/g	3.24E+01	1.13E+03		7.32E-01	3.11E+01
14	2	Surface	Uranium-235	pCi/g	2.00E+00	7.00E+01		4.52E-02	1.92E+00
14	2	Surface	Uranium-238	pCi/g	5.61E+01	1.96E+03		1.27E+00	5.38E+01
14	3	Surface	Arsenic	mg/kg	1.30E+01	4.13E-07	4.46E-06	2.67E-10	
14	3	Surface	Chromium	mg/kg	7.01E+01	2.23E-06	4.02E-05	1.44E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	3	Surface	Copper	mg/kg	1.29E+02	4.12E-06	7.41E-05	2.66E-09	
14	3	Surface	Iron	mg/kg	3.48E+04	1.11E-03	2.00E-02	7.16E-07	
14	3	Surface	Manganese	mg/kg	1.06E+03	3.37E-05	4.85E-04	2.17E-08	
14	3	Surface	Mercury	mg/kg	7.48E+00	2.38E-07	4.29E-06	4.61E-06	
14	3	Surface	Molybdenum	mg/kg	2.21E+01	7.03E-07	1.27E-05	4.54E-10	
14	3	Surface	Nickel	mg/kg	5.76E+02	1.84E-05	2.64E-04	1.18E-08	
14	3	Surface	PCB, Total	mg/kg	8.65E+00	2.75E-07	1.39E-05	3.02E-07	
14	3	Surface	Uranium	mg/kg	2.18E+02	6.94E-06	1.25E-04	4.47E-09	
14	3	Surface	Uranium-238	pCi/g	1.50E+00	5.25E+01		3.39E-02	1.44E+00
14	4	Surface	Antimony	mg/kg	4.30E+00	1.37E-07	2.47E-06	8.84E-11	
14	4	Surface	Arsenic	mg/kg	1.33E+01	4.23E-07	4.57E-06	2.73E-10	
14	4	Surface	Chromium	mg/kg	7.20E+01	2.29E-06	4.13E-05	1.48E-09	
14	4	Surface	Copper	mg/kg	3.54E+02	1.13E-05	2.03E-04	7.27E-09	
14	4	Surface	Iron	mg/kg	3.88E+04	1.24E-03	2.23E-02	7.98E-07	
14	4	Surface	Mercury	mg/kg	4.87E-01	1.55E-08	2.79E-07	3.00E-07	
14	4	Surface	Neptunium-237	pCi/g	2.68E+00	9.38E+01		6.05E-02	2.57E+00
14	4	Surface	Nickel	mg/kg	7.31E+02	2.33E-05	3.35E-04	1.50E-08	
14	4	Surface	PCB, Total	mg/kg	6.61E+00	2.10E-07	1.06E-05	2.31E-07	
14	4	Surface	Silver	mg/kg	1.17E+01	3.73E-07	5.37E-06	2.40E-10	
14	4	Surface	Thorium-230	pCi/g	8.33E+00	2.92E+02		1.88E-01	7.99E+00
14	4	Surface	Total PAH	mg/kg	2.51E-01	7.99E-09	3.74E-07	3.83E-10	
14	4	Surface	Uranium	mg/kg	3.72E+02	1.18E-05	2.13E-04	7.64E-09	
14	4	Surface	Uranium-234	pCi/g	1.13E+02	3.96E+03		2.55E+00	1.08E+02
14	4	Surface	Uranium-235	pCi/g	8.00E+00	2.80E+02		1.81E-01	7.67E+00
14	4	Surface	Uranium-238	pCi/g	1.69E+02	5.92E+03		3.82E+00	1.62E+02
14	5	Surface	Antimony	mg/kg	2.30E+00	7.33E-08	1.32E-06	4.73E-11	
14	5	Surface	Arsenic	mg/kg	1.31E+01	4.17E-07	4.50E-06	2.69E-10	
14	5	Surface	Cadmium	mg/kg	3.90E+00	1.24E-07	4.47E-08	8.02E-11	
14	5	Surface	Chromium	mg/kg	4.70E+01	1.50E-06	2.69E-05	9.65E-10	
14	5	Surface	Cobalt	mg/kg	1.40E+01	4.46E-07	8.03E-06	2.88E-10	
14	5	Surface	Copper	mg/kg	1.34E+02	4.25E-06	7.66E-05	2.74E-09	
14	5	Surface	Iron	mg/kg	3.92E+04	1.25E-03	2.25E-02	8.06E-07	
14	5	Surface	Manganese	mg/kg	8.28E+02	2.64E-05	3.80E-04	1.70E-08	
14	5	Surface	Mercury	mg/kg	1.09E+01	3.49E-07	6.27E-06	6.75E-06	
14	5	Surface	Neptunium-237	pCi/g	1.74E+00	6.09E+01		3.93E-02	1.67E+00
14	5	Surface	Nickel	mg/kg	4.61E+02	1.47E-05	2.12E-04	9.48E-09	
14	5	Surface	PCB, Total	mg/kg	1.00E+00	3.19E-08	1.61E-06	3.49E-08	
14	5	Surface	Silver	mg/kg	1.29E+01	4.10E-07	5.90E-06	2.65E-10	
14	5	Surface	Technetium-99	pCi/g	1.01E+02	3.54E+03		2.28E+00	9.68E+01
14	5	Surface	Thallium	mg/kg	4.10E-01	1.31E-08	2.35E-07	8.43E-12	
14	5	Surface	Thorium-230	pCi/g	1.39E+01	4.87E+02		3.14E-01	1.33E+01
14	5	Surface	Total PAH	mg/kg	1.21E-01	3.85E-09	1.80E-07	1.85E-10	
14	5	Surface	Uranium	mg/kg	2.62E+02	8.35E-06	1.50E-04	5.39E-09	
14	5	Surface	Uranium-234	pCi/g	5.22E+01	1.83E+03		1.18E+00	5.01E+01
14	5	Surface	Uranium-235	pCi/g	3.33E+00	1.17E+02		7.52E-02	3.19E+00
14	5	Surface	Uranium-238	pCi/g	9.42E+01	3.30E+03		2.13E+00	9.03E+01
14	6	Surface	Antimony	mg/kg	2.70E+00	8.60E-08	1.55E-06	5.55E-11	
14	6	Surface	Cadmium	mg/kg	8.40E-01	2.68E-08	9.63E-09	1.73E-11	
14	6	Surface	Chromium	mg/kg	4.46E+02	1.42E-05	2.56E-04	9.16E-09	
14	6	Surface	Copper	mg/kg	1.22E+02	3.90E-06	7.01E-05	2.51E-09	
14	6	Surface	Mercury	mg/kg	3.47E-01	1.11E-08	1.99E-07	2.14E-07	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	6	Surface	Neptunium-237	pCi/g	2.65E+00	9.28E+01		5.98E-02	2.54E+00
14	6	Surface	Nickel	mg/kg	9.63E+02	3.07E-05	4.42E-04	1.98E-08	
14	6	Surface	PCB, Total	mg/kg	5.00E+00	1.59E-07	8.03E-06	1.75E-07	
14	6	Surface	Silver	mg/kg	1.19E+01	3.78E-07	5.45E-06	2.44E-10	
14	6	Surface	Uranium	mg/kg	5.79E+02	1.84E-05	3.32E-04	1.19E-08	
14	6	Surface	Uranium-234	pCi/g	3.41E+01	1.19E+03		7.70E-01	3.27E+01
14	6	Surface	Uranium-235	pCi/g	2.27E+00	7.95E+01		5.13E-02	2.18E+00
14	6	Surface	Uranium-238	pCi/g	5.08E+01	1.78E+03		1.15E+00	4.87E+01
14	7	Surface	Antimony	mg/kg	7.50E-01	2.39E-08	4.30E-07	1.54E-11	
14	7	Surface	Arsenic	mg/kg	1.13E+01	3.60E-07	3.89E-06	2.32E-10	
14	7	Surface	Cadmium	mg/kg	2.70E+00	8.60E-08	3.10E-08	5.55E-11	
14	7	Surface	Chromium	mg/kg	6.46E+01	2.06E-06	3.70E-05	1.33E-09	
14	7	Surface	Mercury	mg/kg	7.82E+00	2.49E-07	4.48E-06	4.82E-06	
14	7	Surface	Neptunium-237	pCi/g	1.49E+00	5.22E+01		3.36E-02	1.43E+00
14	7	Surface	Nickel	mg/kg	1.22E+03	3.90E-05	5.61E-04	2.51E-08	
14	7	Surface	PCB, Total	mg/kg	7.60E+00	2.42E-07	1.22E-05	2.65E-07	
14	7	Surface	Total PAH	mg/kg	6.31E-02	2.01E-09	9.41E-08	9.63E-11	
14	7	Surface	Uranium	mg/kg	3.33E+02	1.06E-05	1.91E-04	6.84E-09	
14	7	Surface	Uranium-234	pCi/g	1.28E+01	4.48E+02		2.89E-01	1.23E+01
14	7	Surface	Uranium-235	pCi/g	9.60E-01	3.36E+01		2.17E-02	9.21E-01
14	7	Surface	Uranium-238	pCi/g	2.13E+01	7.46E+02		4.81E-01	2.04E+01
14	8	Surface	Antimony	mg/kg	6.10E-01	1.94E-08	3.50E-07	1.25E-11	
14	8	Surface	Arsenic	mg/kg	1.14E+01	3.63E-07	3.92E-06	2.34E-10	
14	8	Surface	Chromium	mg/kg	4.60E+01	1.47E-06	2.64E-05	9.46E-10	
14	8	Surface	Mercury	mg/kg	7.90E+00	2.52E-07	4.53E-06	4.87E-06	
14	8	Surface	Neptunium-237	pCi/g	8.80E-01	3.08E+01		1.99E-02	8.44E-01
14	8	Surface	Nickel	mg/kg	6.73E+02	2.14E-05	3.09E-04	1.38E-08	
14	8	Surface	PCB, Total	mg/kg	5.00E+00	1.59E-07	8.03E-06	1.75E-07	
14	8	Surface	Silver	mg/kg	9.63E+00	3.07E-07	4.42E-06	1.98E-10	
14	8	Surface	Total PAH	mg/kg	6.28E-02	2.00E-09	9.36E-08	9.57E-11	
14	8	Surface	Uranium	mg/kg	3.35E+02	1.07E-05	1.92E-04	6.89E-09	
14	8	Surface	Uranium-235	pCi/g	2.38E-01	8.33E+00		5.37E-03	2.28E-01
14	8	Surface	Uranium-238	pCi/g	5.92E+00	2.07E+02		1.34E-01	5.68E+00
14	9	Surface	Antimony	mg/kg	2.00E+00	6.37E-08	1.15E-06	4.11E-11	
14	9	Surface	Arsenic	mg/kg	1.40E+01	4.47E-07	4.83E-06	2.89E-10	
14	9	Surface	Cadmium	mg/kg	9.40E-01	2.99E-08	1.08E-08	1.93E-11	
14	9	Surface	Cesium-137	pCi/g	4.53E-01	1.59E+01		1.02E-02	4.34E-01
14	9	Surface	Chromium	mg/kg	4.64E+01	1.48E-06	2.66E-05	9.54E-10	
14	9	Surface	Mercury	mg/kg	1.13E+00	3.60E-08	6.48E-07	6.97E-07	
14	9	Surface	Neptunium-237	pCi/g	1.09E+01	3.83E+02		2.47E-01	1.05E+01
14	9	Surface	Nickel	mg/kg	9.43E+02	3.01E-05	4.33E-04	1.94E-08	
14	9	Surface	PCB, Total	mg/kg	6.84E+00	2.18E-07	1.10E-05	2.39E-07	
14	9	Surface	Technetium-99	pCi/g	1.96E+02	6.86E+03		4.42E+00	1.88E+02
14	9	Surface	Total PAH	mg/kg	4.87E-01	1.55E-08	7.27E-07	7.44E-10	
14	9	Surface	Uranium	mg/kg	1.46E+03	4.66E-05	8.40E-04	3.01E-08	
14	9	Surface	Uranium-234	pCi/g	8.32E+02	2.91E+04		1.88E+01	7.98E+02
14	9	Surface	Uranium-235	pCi/g	5.46E+01	1.91E+03		1.23E+00	5.23E+01
14	9	Surface	Uranium-238	pCi/g	1.20E+03	4.20E+04		2.71E+01	1.15E+03
14	10	Surface	Antimony	mg/kg	9.40E-01	2.99E-08	5.39E-07	1.93E-11	
14	10	Surface	Arsenic	mg/kg	1.12E+01	3.58E-07	3.87E-06	2.31E-10	
14	10	Surface	Chromium	mg/kg	4.19E+01	1.33E-06	2.40E-05	8.60E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
14	10	Surface	Copper	mg/kg	1.41E+02	4.50E-06	8.10E-05	2.90E-09	
14	10	Surface	Iron	mg/kg	2.75E+04	8.74E-04	1.57E-02	5.64E-07	
14	10	Surface	Mercury	mg/kg	2.51E+01	7.99E-07	1.44E-05	1.55E-05	
14	10	Surface	Neptunium-237	pCi/g	2.64E+00	9.24E+01		5.96E-02	2.53E+00
14	10	Surface	Nickel	mg/kg	6.00E+02	1.91E-05	2.75E-04	1.23E-08	
14	10	Surface	PCB, Total	mg/kg	9.38E+00	2.99E-07	1.51E-05	3.27E-07	
14	10	Surface	Total PAH	mg/kg	2.72E-01	8.65E-09	4.05E-07	4.14E-10	
14	10	Surface	Uranium	mg/kg	2.88E+02	9.19E-06	1.65E-04	5.93E-09	
14	10	Surface	Uranium-234	pCi/g	2.42E+01	8.47E+02		5.46E-01	2.32E+01
14	10	Surface	Uranium-235	pCi/g	1.76E+00	6.16E+01		3.97E-02	1.69E+00
14	10	Surface	Uranium-238	pCi/g	4.09E+01	1.43E+03		9.24E-01	3.92E+01
15	1	Surface	Antimony	mg/kg	6.40E-01	2.04E-08	3.67E-07	1.32E-11	
15	1	Surface	Arsenic	mg/kg	1.24E+01	3.94E-07	4.26E-06	2.54E-10	
15	1	Surface	Chromium	mg/kg	5.61E+01	1.79E-06	3.22E-05	1.15E-09	
15	1	Surface	Copper	mg/kg	1.95E+02	6.21E-06	1.12E-04	4.00E-09	
15	1	Surface	Iron	mg/kg	2.95E+04	9.41E-04	1.69E-02	6.07E-07	
15	1	Surface	Nickel	mg/kg	1.33E+02	4.22E-06	6.08E-05	2.73E-09	
15	1	Surface	PCB, Total	mg/kg	7.80E-02	2.48E-09	1.25E-07	2.72E-09	
15	1	Surface	Silver	mg/kg	1.23E+01	3.92E-07	5.64E-06	2.53E-10	
15	1	Surface	Total PAH	mg/kg	1.71E+00	5.46E-08	2.56E-06	2.62E-09	
15	1	Surface	Uranium	mg/kg	3.09E+01	9.85E-07	1.77E-05	6.36E-10	
15	1	Surface	Uranium-238	pCi/g	1.85E+00	6.48E+01		4.18E-02	1.77E+00
15	2	Surface	Antimony	mg/kg	6.60E-01	2.10E-08	3.78E-07	1.36E-11	
15	2	Surface	Arsenic	mg/kg	1.63E+01	5.18E-07	5.59E-06	3.34E-10	
15	2	Surface	Chromium	mg/kg	5.90E+01	1.88E-06	3.38E-05	1.21E-09	
15	2	Surface	Iron	mg/kg	3.89E+04	1.24E-03	2.23E-02	7.99E-07	
15	2	Surface	Mercury	mg/kg	9.33E+00	2.97E-07	5.35E-06	5.75E-06	
15	2	Surface	Neptunium-237	pCi/g	1.35E-01	4.73E+00		3.05E-03	1.29E-01
15	2	Surface	Nickel	mg/kg	1.97E+02	6.28E-06	9.05E-05	4.05E-09	
15	2	Surface	PCB, Total	mg/kg	3.30E-01	1.05E-08	5.30E-07	1.15E-08	
15	2	Surface	Total PAH	mg/kg	2.11E+00	6.71E-08	3.14E-06	3.22E-09	
15	2	Surface	Uranium	mg/kg	1.32E+02	4.20E-06	7.55E-05	2.71E-09	
15	2	Surface	Uranium-234	pCi/g	6.51E+00	2.28E+02		1.47E-01	6.24E+00
15	2	Surface	Uranium-235	pCi/g	3.80E-01	1.33E+01		8.58E-03	3.64E-01
15	2	Surface	Uranium-238	pCi/g	1.21E+01	4.24E+02		2.73E-01	1.16E+01
15	3	Surface	Antimony	mg/kg	2.45E+01	7.81E-07	1.40E-05	5.04E-10	
15	3	Surface	Arsenic	mg/kg	2.60E+01	8.28E-07	8.94E-06	5.34E-10	
15	3	Surface	Beryllium	mg/kg	7.60E-01	2.42E-08	6.10E-08	1.56E-11	
15	3	Surface	Cadmium	mg/kg	1.19E+01	3.79E-07	1.36E-07	2.45E-10	
15	3	Surface	Chromium	mg/kg	7.53E+01	2.40E-06	4.32E-05	1.55E-09	
15	3	Surface	Cobalt	mg/kg	3.41E+01	1.09E-06	1.96E-05	7.01E-10	
15	3	Surface	Copper	mg/kg	1.40E+03	4.45E-05	8.01E-04	2.87E-08	
15	3	Surface	Iron	mg/kg	9.20E+04	2.93E-03	5.28E-02	1.89E-06	
15	3	Surface	Manganese	mg/kg	1.60E+03	5.11E-05	7.36E-04	3.30E-08	
15	3	Surface	Mercury	mg/kg	2.74E+00	8.73E-08	1.57E-06	1.69E-06	
15	3	Surface	Molybdenum	mg/kg	1.70E+01	5.42E-07	9.75E-06	3.49E-10	
15	3	Surface	Neptunium-237	pCi/g	4.10E+00	1.44E+02		9.26E-02	3.93E+00
15	3	Surface	Nickel	mg/kg	7.57E+02	2.41E-05	3.47E-04	1.55E-08	
15	3	Surface	PCB, Total	mg/kg	6.82E+00	2.17E-07	1.10E-05	2.38E-07	
15	3	Surface	Selenium	mg/kg	2.65E+01	8.43E-07	1.52E-05	5.44E-10	
15	3	Surface	Silver	mg/kg	3.20E+00	1.02E-07	1.47E-06	6.58E-11	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	3	Surface	Technetium-99	pCi/g	3.67E+02	1.28E+04		8.29E+00	3.52E+02
15	3	Surface	Thorium-230	pCi/g	7.23E+00	2.53E+02		1.63E-01	6.93E+00
15	3	Surface	Total PAH	mg/kg	1.45E+00	4.63E-08	2.17E-06	2.22E-09	
15	3	Surface	Uranium	mg/kg	2.16E+02	6.88E-06	1.24E-04	4.44E-09	
15	3	Surface	Uranium-234	pCi/g	6.96E+01	2.44E+03		1.57E+00	6.67E+01
15	3	Surface	Uranium-235	pCi/g	4.21E+00	1.47E+02		9.51E-02	4.04E+00
15	3	Surface	Uranium-238	pCi/g	9.67E+01	3.38E+03		2.18E+00	9.27E+01
15	3	Surface	Zinc	mg/kg	8.79E+02	2.80E-05	5.04E-04	1.81E-08	
15	4	Surface	Antimony	mg/kg	7.40E+00	2.36E-07	4.24E-06	1.52E-10	
15	4	Surface	Arsenic	mg/kg	3.47E+01	1.10E-06	1.19E-05	7.12E-10	
15	4	Surface	Cadmium	mg/kg	1.40E+00	4.46E-08	1.61E-08	2.88E-11	
15	4	Surface	Chromium	mg/kg	1.02E+02	3.26E-06	5.86E-05	2.10E-09	
15	4	Surface	Copper	mg/kg	7.05E+02	2.25E-05	4.04E-04	1.45E-08	
15	4	Surface	Iron	mg/kg	7.81E+04	2.49E-03	4.48E-02	1.61E-06	
15	4	Surface	Manganese	mg/kg	1.54E+03	4.89E-05	7.05E-04	3.16E-08	
15	4	Surface	Mercury	mg/kg	1.41E+01	4.49E-07	8.08E-06	8.69E-06	
15	4	Surface	Neptunium-237	pCi/g	8.00E-01	2.80E+01		1.81E-02	7.67E-01
15	4	Surface	Nickel	mg/kg	1.37E+03	4.38E-05	6.30E-04	2.82E-08	
15	4	Surface	PCB, Total	mg/kg	2.67E+01	8.51E-07	4.29E-05	9.33E-07	
15	4	Surface	Silver	mg/kg	1.46E+01	4.65E-07	6.70E-06	3.00E-10	
15	4	Surface	Total PAH	mg/kg	2.44E+00	7.79E-08	3.65E-06	3.73E-09	
15	4	Surface	Uranium	mg/kg	1.57E+02	4.99E-06	8.97E-05	3.22E-09	
15	4	Surface	Uranium-234	pCi/g	1.07E+01	3.75E+02		2.42E-01	1.03E+01
15	4	Surface	Uranium-235	pCi/g	4.30E-01	1.51E+01		9.71E-03	4.12E-01
15	4	Surface	Uranium-238	pCi/g	1.87E+01	6.55E+02		4.22E-01	1.79E+01
15	4	Surface	Zinc	mg/kg	1.19E+03	3.79E-05	6.82E-04	2.44E-08	
15	5	Surface	Antimony	mg/kg	3.10E+00	9.88E-08	1.78E-06	6.37E-11	
15	5	Surface	Arsenic	mg/kg	1.28E+01	4.07E-07	4.40E-06	2.63E-10	
15	5	Surface	Cadmium	mg/kg	1.50E+00	4.78E-08	1.72E-08	3.08E-11	
15	5	Surface	Chromium	mg/kg	4.28E+01	1.36E-06	2.45E-05	8.79E-10	
15	5	Surface	Copper	mg/kg	5.63E+03	1.79E-04	3.23E-03	1.16E-07	
15	5	Surface	Mercury	mg/kg	3.38E-01	1.08E-08	1.94E-07	2.08E-07	
15	5	Surface	Neptunium-237	pCi/g	6.90E-01	2.42E+01		1.56E-02	6.62E-01
15	5	Surface	Nickel	mg/kg	5.10E+02	1.63E-05	2.34E-04	1.05E-08	
15	5	Surface	PCB, Total	mg/kg	2.51E+01	8.01E-07	4.03E-05	8.77E-07	
15	5	Surface	Silver	mg/kg	1.46E+01	4.65E-07	6.70E-06	3.00E-10	
15	5	Surface	Technetium-99	pCi/g	1.07E+02	3.75E+03		2.42E+00	1.03E+02
15	5	Surface	Total PAH	mg/kg	5.11E-01	1.63E-08	7.61E-07	7.79E-10	
15	5	Surface	Uranium	mg/kg	2.13E+02	6.80E-06	1.22E-04	4.39E-09	
15	5	Surface	Uranium-234	pCi/g	5.83E+00	2.04E+02		1.32E-01	5.59E+00
15	5	Surface	Uranium-235	pCi/g	4.60E-01	1.61E+01		1.04E-02	4.41E-01
15	5	Surface	Uranium-238	pCi/g	1.03E+01	3.61E+02		2.33E-01	9.88E+00
15	5	Surface	Zinc	mg/kg	1.52E+03	4.86E-05	8.74E-04	3.13E-08	
15	6	Surface	Antimony	mg/kg	5.10E+00	1.62E-07	2.92E-06	1.05E-10	
15	6	Surface	Arsenic	mg/kg	1.24E+01	3.96E-07	4.28E-06	2.55E-10	
15	6	Surface	Cadmium	mg/kg	1.50E+00	4.78E-08	1.72E-08	3.08E-11	
15	6	Surface	Chromium	mg/kg	5.80E+01	1.85E-06	3.32E-05	1.19E-09	
15	6	Surface	Cobalt	mg/kg	1.62E+01	5.16E-07	9.29E-06	3.33E-10	
15	6	Surface	Copper	mg/kg	4.23E+02	1.35E-05	2.43E-04	8.69E-09	
15	6	Surface	Iron	mg/kg	3.15E+04	1.00E-03	1.81E-02	6.47E-07	
15	6	Surface	Mercury	mg/kg	4.10E-01	1.31E-08	2.35E-07	2.53E-07	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	6	Surface	Neptunium-237	pCi/g	6.40E-01	2.24E+01		1.45E-02	6.14E-01
15	6	Surface	Nickel	mg/kg	3.24E+02	1.03E-05	1.49E-04	6.66E-09	
15	6	Surface	PCB, Total	mg/kg	6.17E+00	1.96E-07	9.90E-06	2.15E-07	
15	6	Surface	Silver	mg/kg	1.09E+01	3.48E-07	5.00E-06	2.24E-10	
15	6	Surface	Total PAH	mg/kg	1.62E+00	5.17E-08	2.42E-06	2.48E-09	
15	6	Surface	Uranium	mg/kg	6.70E+01	2.14E-06	3.84E-05	1.38E-09	
15	6	Surface	Uranium-234	pCi/g	8.74E+00	3.06E+02		1.97E-01	8.38E+00
15	6	Surface	Uranium-235	pCi/g	5.70E-01	2.00E+01		1.29E-02	5.47E-01
15	6	Surface	Uranium-238	pCi/g	1.54E+01	5.39E+02		3.48E-01	1.48E+01
15	7	Surface	Antimony	mg/kg	7.50E-01	2.39E-08	4.30E-07	1.54E-11	
15	7	Surface	Arsenic	mg/kg	1.61E+01	5.12E-07	5.53E-06	3.30E-10	
15	7	Surface	Cadmium	mg/kg	1.00E+00	3.19E-08	1.15E-08	2.06E-11	
15	7	Surface	Chromium	mg/kg	7.87E+01	2.51E-06	4.51E-05	1.62E-09	
15	7	Surface	Copper	mg/kg	7.33E+02	2.34E-05	4.20E-04	1.51E-08	
15	7	Surface	Iron	mg/kg	3.42E+04	1.09E-03	1.96E-02	7.03E-07	
15	7	Surface	Manganese	mg/kg	1.11E+03	3.52E-05	5.07E-04	2.27E-08	
15	7	Surface	Neptunium-237	pCi/g	2.23E-01	7.81E+00		5.04E-03	2.14E-01
15	7	Surface	Nickel	mg/kg	5.59E+02	1.78E-05	2.56E-04	1.15E-08	
15	7	Surface	PCB, Total	mg/kg	2.57E+01	8.18E-07	4.12E-05	8.96E-07	
15	7	Surface	Silver	mg/kg	1.29E+01	4.10E-07	5.90E-06	2.64E-10	
15	7	Surface	Total PAH	mg/kg	1.59E-01	5.06E-09	2.37E-07	2.42E-10	
15	7	Surface	Uranium	mg/kg	5.39E+01	1.72E-06	3.09E-05	1.11E-09	
15	7	Surface	Uranium-234	pCi/g	6.49E+00	2.27E+02		1.47E-01	6.22E+00
15	7	Surface	Uranium-235	pCi/g	4.50E-01	1.58E+01		1.02E-02	4.32E-01
15	7	Surface	Uranium-238	pCi/g	8.05E+00	2.82E+02		1.82E-01	7.72E+00
15	7	Surface	Zinc	mg/kg	5.87E+02	1.87E-05	3.37E-04	1.21E-08	
15	8	Surface	Antimony	mg/kg	5.40E+00	1.72E-07	3.10E-06	1.11E-10	
15	8	Surface	Arsenic	mg/kg	1.17E+01	3.71E-07	4.01E-06	2.39E-10	
15	8	Surface	Chromium	mg/kg	7.74E+01	2.47E-06	4.44E-05	1.59E-09	
15	8	Surface	Copper	mg/kg	1.62E+02	5.15E-06	9.28E-05	3.33E-09	
15	8	Surface	Iron	mg/kg	2.83E+04	9.00E-04	1.62E-02	5.81E-07	
15	8	Surface	Mercury	mg/kg	1.00E+01	3.20E-07	5.76E-06	6.19E-06	
15	8	Surface	Neptunium-237	pCi/g	3.65E-01	1.28E+01		8.24E-03	3.50E-01
15	8	Surface	Nickel	mg/kg	1.82E+02	5.79E-06	8.34E-05	3.73E-09	
15	8	Surface	PCB, Total	mg/kg	4.90E+00	1.56E-07	7.87E-06	1.71E-07	
15	8	Surface	Silver	mg/kg	1.36E+01	4.32E-07	6.22E-06	2.78E-10	
15	8	Surface	Total PAH	mg/kg	3.59E-01	1.14E-08	5.35E-07	5.47E-10	
15	8	Surface	Uranium	mg/kg	4.46E+01	1.42E-06	2.55E-05	9.16E-10	
15	8	Surface	Uranium-235	pCi/g	3.04E-01	1.06E+01		6.86E-03	2.92E-01
15	8	Surface	Uranium-238	pCi/g	6.64E+00	2.32E+02		1.50E-01	6.37E+00
15	9	Surface	Arsenic	mg/kg	1.10E+01	3.52E-07	3.80E-06	2.27E-10	
15	9	Surface	Chromium	mg/kg	9.56E+01	3.05E-06	5.48E-05	1.97E-09	
15	9	Surface	Copper	mg/kg	1.36E+02	4.33E-06	7.79E-05	2.79E-09	
15	9	Surface	Iron	mg/kg	2.76E+04	8.79E-04	1.58E-02	5.67E-07	
15	9	Surface	Neptunium-237	pCi/g	1.28E-01	4.48E+00		2.89E-03	1.23E-01
15	9	Surface	Nickel	mg/kg	1.49E+02	4.74E-06	6.83E-05	3.06E-09	
15	9	Surface	PCB, Total	mg/kg	3.30E-01	1.05E-08	5.30E-07	1.15E-08	
15	9	Surface	Silver	mg/kg	1.54E+01	4.91E-07	7.07E-06	3.17E-10	
15	9	Surface	Total PAH	mg/kg	2.38E-01	7.59E-09	3.55E-07	3.64E-10	
15	9	Surface	Uranium	mg/kg	3.07E+01	9.77E-07	1.76E-05	6.30E-10	
15	9	Surface	Uranium-235	pCi/g	2.42E-01	8.47E+00		5.46E-03	2.32E-01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
15	9	Surface	Uranium-238	pCi/g	7.12E+00	2.49E+02		1.61E-01	6.83E+00
15	10	Surface	Chromium	mg/kg	3.55E+01	1.13E-06	2.04E-05	7.30E-10	
15	10	Surface	Mercury	mg/kg	7.84E+00	2.50E-07	4.50E-06	4.83E-06	
15	10	Surface	Nickel	mg/kg	1.46E+02	4.64E-06	6.68E-05	2.99E-09	
15	10	Surface	Silver	mg/kg	1.08E+01	3.44E-07	4.96E-06	2.22E-10	
15	10	Surface	Total PAH	mg/kg	1.28E-01	4.09E-09	1.92E-07	1.96E-10	
15	10	Surface	Uranium	mg/kg	6.47E+01	2.06E-06	3.71E-05	1.33E-09	
16	1	Surface	Cesium-137	pCi/g	1.10E+00	3.85E+01		2.48E-02	1.05E+00
16	1	Surface	PCB, Total	mg/kg	9.60E-02	3.06E-09	1.54E-07	3.35E-09	
16	1	Surface	Total PAH	mg/kg	2.72E-02	8.67E-10	4.06E-08	4.15E-11	
16	2	Surface	Beryllium	mg/kg	8.40E-01	2.68E-08	6.74E-08	1.73E-11	
16	2	Surface	Chromium	mg/kg	2.04E+01	6.50E-07	1.17E-05	4.19E-10	
16	2	Surface	Nickel	mg/kg	2.16E+01	6.88E-07	9.91E-06	4.44E-10	
16	3	Surface	PCB, Total	mg/kg	9.49E-01	3.02E-08	1.52E-06	3.31E-08	
16	4	Surface	Cesium-137	pCi/g	3.66E+01	1.28E+03		8.26E-01	3.51E+01
16	4	Surface	Cobalt-60	pCi/g	8.53E-03	2.99E-01		1.93E-04	8.18E-03
16	4	Surface	Neptunium-237	pCi/g	7.12E+00	2.49E+02		1.61E-01	6.83E+00
16	4	Surface	PCB, Total	mg/kg	3.20E-01	1.02E-08	5.14E-07	1.12E-08	
16	4	Surface	Technetium-99	pCi/g	2.96E+02	1.03E+04		6.68E+00	2.84E+02
16	4	Surface	Thorium-230	pCi/g	5.29E+00	1.85E+02		1.19E-01	5.07E+00
16	4	Surface	Total PAH	mg/kg	2.93E+00	9.33E-08	4.37E-06	4.47E-09	
16	4	Surface	Uranium-234	pCi/g	1.19E+02	4.17E+03		2.69E+00	1.14E+02
16	4	Surface	Uranium-235	pCi/g	8.23E+00	2.88E+02		1.86E-01	7.89E+00
16	4	Surface	Uranium-238	pCi/g	2.70E+02	9.45E+03		6.10E+00	2.59E+02
19	1	Surface	Beryllium	mg/kg	1.10E+00	3.50E-08	8.83E-08	2.26E-11	
19	1	Surface	Cadmium	mg/kg	1.20E+00	3.82E-08	1.38E-08	2.47E-11	
19	1	Surface	Thallium	mg/kg	9.80E-01	3.12E-08	5.62E-07	2.01E-11	
19	1	Surface	Total PAH	mg/kg	5.23E+00	1.66E-07	7.79E-06	7.97E-09	
26	1	Surface	Arsenic	mg/kg	1.29E+01	4.10E-07	4.43E-06	2.65E-10	
26	1	Surface	Beryllium	mg/kg	6.69E-01	2.13E-08	5.37E-08	1.38E-11	
26	1	Surface	Cadmium	mg/kg	1.99E+00	6.35E-08	2.29E-08	4.10E-11	
26	1	Surface	Cesium-137	pCi/g	3.16E+00	1.11E+02		7.14E-02	3.03E+00
26	1	Surface	Chromium	mg/kg	1.90E+01	6.05E-07	1.09E-05	3.91E-10	
26	1	Surface	Cobalt-60	pCi/g	1.93E-03	6.76E-02		4.36E-05	1.85E-03
26	1	Surface	Mercury	mg/kg	1.66E-01	5.29E-09	9.52E-08	1.02E-07	
26	1	Surface	Neptunium-237	pCi/g	2.61E-01	9.14E+00		5.89E-03	2.50E-01
26	1	Surface	Nickel	mg/kg	1.76E+01	5.60E-07	8.07E-06	3.62E-10	
26	1	Surface	PCB, Total	mg/kg	9.33E-01	2.97E-08	1.50E-06	3.26E-08	
26	1	Surface	Plutonium-239/240	pCi/g	4.04E+00	1.41E+02		9.11E-02	3.87E+00
26	1	Surface	Thorium-230	pCi/g	3.82E+00	1.34E+02		8.62E-02	3.66E+00
26	1	Surface	Total PAH	mg/kg	5.00E-02	1.59E-09	7.45E-08	7.63E-11	
26	1	Surface	Uranium	mg/kg	1.29E+02	4.10E-06	7.38E-05	2.65E-09	
26	1	Surface	Uranium-234	pCi/g	4.67E+00	1.63E+02		1.05E-01	4.47E+00
26	1	Surface	Uranium-235	pCi/g	6.41E-01	2.24E+01		1.45E-02	6.15E-01
26	1	Surface	Uranium-238	pCi/g	3.47E+01	1.21E+03		7.83E-01	3.32E+01
26	2	Surface	Aluminum	mg/kg	2.17E+04	6.90E-04	1.24E-02	4.45E-07	
26	2	Surface	Arsenic	mg/kg	4.72E+01	1.50E-06	1.62E-05	9.70E-10	
26	2	Surface	Barium	mg/kg	1.49E+02	4.74E-06	8.53E-05	3.06E-09	
26	2	Surface	Beryllium	mg/kg	9.69E+00	3.09E-07	7.78E-07	1.99E-10	
26	2	Surface	Cadmium	mg/kg	2.38E+00	7.59E-08	2.73E-08	4.89E-11	
26	2	Surface	Cesium-137	pCi/g	5.92E+00	2.07E+02		1.34E-01	5.68E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
26	2	Surface	Chromium	mg/kg	3.90E+01	1.24E-06	2.24E-05	8.02E-10	
26	2	Surface	Cobalt	mg/kg	5.20E+01	1.66E-06	2.98E-05	1.07E-09	
26	2	Surface	Copper	mg/kg	1.31E+02	4.17E-06	7.51E-05	2.69E-09	
26	2	Surface	Iron	mg/kg	5.32E+04	1.69E-03	3.05E-02	1.09E-06	
26	2	Surface	Neptunium-237	pCi/g	7.89E-01	2.76E+01		1.78E-02	7.57E-01
26	2	Surface	Nickel	mg/kg	1.13E+02	3.60E-06	5.19E-05	2.32E-09	
26	2	Surface	PCB, Total	mg/kg	2.23E+00	7.10E-08	3.58E-06	7.78E-08	
26	2	Surface	Thallium	mg/kg	1.39E+01	4.43E-07	7.97E-06	2.86E-10	
26	2	Surface	Thorium-230	pCi/g	1.51E+01	5.30E+02		3.42E-01	1.45E+01
26	2	Surface	Uranium	mg/kg	6.46E+02	2.06E-05	3.70E-04	1.33E-08	
26	2	Surface	Uranium-234	pCi/g	1.91E+01	6.67E+02		4.31E-01	1.83E+01
26	2	Surface	Uranium-235	pCi/g	1.71E+00	5.97E+01		3.85E-02	1.64E+00
26	2	Surface	Uranium-238	pCi/g	5.14E+01	1.80E+03		1.16E+00	4.93E+01
26	2	Surface	Vanadium	mg/kg	3.13E+01	9.96E-07	9.32E-06	6.42E-10	
26	3	Surface	Aluminum	mg/kg	9.55E+03	3.04E-04	5.47E-03	1.96E-07	
26	3	Surface	Antimony	mg/kg	1.40E+00	4.46E-08	8.03E-07	2.88E-11	
26	3	Surface	Arsenic	mg/kg	5.09E+01	1.62E-06	1.75E-05	1.05E-09	
26	3	Surface	Barium	mg/kg	4.48E+02	1.43E-05	2.57E-04	9.20E-09	
26	3	Surface	Beryllium	mg/kg	2.54E+00	8.08E-08	2.04E-07	5.21E-11	
26	3	Surface	Cadmium	mg/kg	2.34E+00	7.45E-08	2.68E-08	4.81E-11	
26	3	Surface	Cesium-137	pCi/g	7.48E-01	2.62E+01		1.69E-02	7.17E-01
26	3	Surface	Chromium	mg/kg	3.25E+01	1.04E-06	1.87E-05	6.69E-10	
26	3	Surface	Cobalt	mg/kg	1.21E+01	3.86E-07	6.94E-06	2.49E-10	
26	3	Surface	Mercury	mg/kg	3.87E-01	1.23E-08	2.22E-07	2.39E-07	
26	3	Surface	Naphthalene	mg/kg	1.32E+00	4.21E-08	3.78E-06	9.11E-07	
26	3	Surface	Neptunium-237	pCi/g	7.53E-01	2.64E+01		1.70E-02	7.22E-01
26	3	Surface	Nickel	mg/kg	2.97E+01	9.46E-07	1.36E-05	6.10E-10	
26	3	Surface	PCB, Total	mg/kg	2.52E+00	8.02E-08	4.04E-06	8.79E-08	
26	3	Surface	Silver	mg/kg	2.59E+01	8.25E-07	1.19E-05	5.32E-10	
26	3	Surface	Technetium-99	pCi/g	6.48E+01	2.27E+03		1.46E+00	6.21E+01
26	3	Surface	Thallium	mg/kg	6.00E-01	1.91E-08	3.44E-07	1.23E-11	
26	3	Surface	Thorium-230	pCi/g	7.10E+00	2.48E+02		1.60E-01	6.81E+00
26	3	Surface	Total PAH	mg/kg	1.19E+00	3.78E-08	1.77E-06	1.81E-09	
26	3	Surface	Uranium	mg/kg	9.88E+01	3.15E-06	5.66E-05	2.03E-09	
26	3	Surface	Uranium-234	pCi/g	4.63E+01	1.62E+03		1.05E+00	4.44E+01
26	3	Surface	Uranium-235	pCi/g	1.69E+00	5.92E+01		3.82E-02	1.62E+00
26	3	Surface	Uranium-238	pCi/g	5.19E+01	1.81E+03		1.17E+00	4.97E+01
26	3	Surface	Vanadium	mg/kg	3.77E+01	1.20E-06	1.12E-05	7.74E-10	
26	4	Surface	Aluminum	mg/kg	1.07E+04	3.40E-04	6.12E-03	2.19E-07	
26	4	Surface	Americium-241	pCi/g	1.27E+00	4.46E+01		2.87E-02	1.22E+00
26	4	Surface	Antimony	mg/kg	6.00E-01	1.91E-08	3.44E-07	1.23E-11	
26	4	Surface	Beryllium	mg/kg	6.91E-01	2.20E-08	5.55E-08	1.42E-11	
26	4	Surface	Cadmium	mg/kg	1.99E+00	6.34E-08	2.28E-08	4.09E-11	
26	4	Surface	Cesium-137	pCi/g	6.38E-01	2.23E+01		1.44E-02	6.12E-01
26	4	Surface	Chromium	mg/kg	8.57E+01	2.73E-06	4.92E-05	1.76E-09	
26	4	Surface	Cobalt-60	pCi/g	1.21E-03	4.24E-02		2.73E-05	1.16E-03
26	4	Surface	Copper	mg/kg	1.16E+02	3.69E-06	6.64E-05	2.38E-09	
26	4	Surface	Mercury	mg/kg	3.07E+00	9.79E-08	1.76E-06	1.89E-06	
26	4	Surface	Neptunium-237	pCi/g	1.36E+01	4.75E+02		3.06E-01	1.30E+01
26	4	Surface	Nickel	mg/kg	7.54E+01	2.40E-06	3.46E-05	1.55E-09	
26	4	Surface	PCB, Total	mg/kg	5.54E-01	1.76E-08	8.90E-07	1.93E-08	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
26	4	Surface	Plutonium-239/240	pCi/g	5.00E+00	1.75E+02		1.13E-01	4.80E+00
26	4	Surface	Technetium-99	pCi/g	5.97E+02	2.09E+04		1.35E+01	5.73E+02
26	4	Surface	Thorium-230	pCi/g	3.26E+01	1.14E+03		7.37E-01	3.13E+01
26	4	Surface	Total PAH	mg/kg	2.83E-02	9.02E-10	4.22E-08	4.32E-11	
26	4	Surface	Uranium	mg/kg	9.75E+02	3.11E-05	5.59E-04	2.00E-08	
26	4	Surface	Uranium-234	pCi/g	1.54E+02	5.40E+03		3.49E+00	1.48E+02
26	4	Surface	Uranium-235	pCi/g	1.08E+01	3.78E+02		2.44E-01	1.04E+01
26	4	Surface	Uranium-238	pCi/g					
47	1	Surface	Aluminum	mg/kg	1.50E+04	4.78E-04	8.60E-03	3.08E-07	
47	1	Surface	Antimony	mg/kg	9.00E-01	2.87E-08	5.16E-07	1.85E-11	
47	1	Surface	Arsenic	mg/kg	4.52E+01	1.44E-06	1.56E-05	9.29E-10	
47	1	Surface	Beryllium	mg/kg	7.00E-01	2.23E-08	5.62E-08	1.44E-11	
47	1	Surface	Cadmium	mg/kg	4.25E+00	1.35E-07	4.87E-08	8.74E-11	
47	1	Surface	Chromium	mg/kg	5.39E+01	1.72E-06	3.09E-05	1.11E-09	
47	1	Surface	Cobalt	mg/kg	1.43E+01	4.56E-07	8.20E-06	2.94E-10	
47	1	Surface	Iron	mg/kg	2.95E+04	9.40E-04	1.69E-02	6.06E-07	
47	1	Surface	Naphthalene	mg/kg	1.90E+00	6.05E-08	5.45E-06	1.31E-06	
47	1	Surface	Neptunium-237	pCi/g	1.15E-01	4.03E+00		2.60E-03	1.10E-01
47	1	Surface	Nickel	mg/kg	8.25E+01	2.63E-06	3.78E-05	1.70E-09	
47	1	Surface	PCB, Total	mg/kg	9.60E-01	3.06E-08	1.54E-06	3.35E-08	
47	1	Surface	Plutonium-239/240	pCi/g	4.11E+00	1.44E+02		9.28E-02	3.94E+00
47	1	Surface	Pyrene	mg/kg	1.11E+02	3.52E-06	1.65E-04	1.50E-06	
47	1	Surface	Thorium-230	pCi/g	4.11E+01	1.44E+03		9.28E-01	3.94E+01
47	1	Surface	Total PAH	mg/kg	5.41E+01	1.72E-06	8.06E-05	8.25E-08	
47	1	Surface	Uranium	mg/kg	3.23E+01	1.03E-06	1.85E-05	6.64E-10	
47	1	Surface	Uranium-234	pCi/g	6.85E+00	2.40E+02		1.55E-01	6.57E+00
47	1	Surface	Uranium-235	pCi/g	5.00E-01	1.75E+01		1.13E-02	4.79E-01
47	1	Surface	Uranium-238	pCi/g	7.93E+00	2.78E+02		1.79E-01	7.60E+00
74	1	Surface	PCB, Total	mg/kg	2.97E+00	9.48E-08	4.78E-06	1.04E-07	
74	1	Surface	Total PAH	mg/kg	3.16E+00	1.01E-07	4.71E-06	4.82E-09	
74	1	Surface	Uranium-234	pCi/g	7.55E+00	2.64E+02		1.70E-01	7.24E+00
74	1	Surface	Uranium-238	pCi/g	3.85E+01	1.35E+03		8.69E-01	3.69E+01
75	1	Surface	Cadmium	mg/kg	1.10E+00	3.50E-08	1.26E-08	2.26E-11	
75	1	Surface	Chromium	mg/kg	7.17E+01	2.28E-06	4.11E-05	1.47E-09	
75	1	Surface	Copper	mg/kg	3.15E+02	1.00E-05	1.81E-04	6.47E-09	
75	1	Surface	Nickel	mg/kg	8.87E+01	2.83E-06	4.07E-05	1.82E-09	
75	1	Surface	PCB, Total	mg/kg	2.30E-01	7.33E-09	3.69E-07	8.03E-09	
75	1	Surface	Total PAH	mg/kg	2.21E-01	7.05E-09	3.30E-07	3.38E-10	
76	1	Surface	Barium	mg/kg	2.69E+02	8.57E-06	1.54E-04	5.53E-09	
76	1	Surface	PCB, Total	mg/kg	2.60E-01	8.28E-09	4.17E-07	9.07E-09	
76	1	Surface	Total PAH	mg/kg	1.76E+00	5.60E-08	2.62E-06	2.68E-09	
76	1	Surface	Uranium-238	pCi/g	1.45E+00	5.08E+01		3.27E-02	1.39E+00
78	1	Surface	Cadmium	mg/kg	2.36E+00	7.52E-08	2.71E-08	4.85E-11	
78	1	Surface	Chromium	mg/kg	3.75E+01	1.19E-06	2.15E-05	7.71E-10	
78	1	Surface	Cobalt-60	pCi/g	5.91E-03	2.07E-01		1.33E-04	5.67E-03
78	1	Surface	Naphthalene	mg/kg	1.60E+01	5.10E-07	4.59E-05	1.10E-05	
78	1	Surface	Nickel	mg/kg	2.15E+01	6.85E-07	9.86E-06	4.42E-10	
78	1	Surface	PCB, Total	mg/kg	1.20E+01	3.82E-07	1.93E-05	4.19E-07	
78	1	Surface	Total PAH	mg/kg	3.91E+01	1.25E-06	5.83E-05	5.97E-08	
78	1	Surface	Uranium-235	pCi/g	2.64E-01	9.24E+00		5.96E-03	2.53E-01
78	1	Surface	Uranium-238	pCi/g	5.29E+00	1.85E+02		1.19E-01	5.07E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
80	1	Surface	Americium-241	pCi/g	6.40E+00	2.24E+02		1.45E-01	6.14E+00
80	1	Surface	Antimony	mg/kg	9.10E-01	2.90E-08	5.22E-07	1.87E-11	
80	1	Surface	Beryllium	mg/kg	7.80E-01	2.48E-08	6.26E-08	1.60E-11	
80	1	Surface	Chromium	mg/kg	1.65E+02	5.26E-06	9.46E-05	3.39E-09	
80	1	Surface	Mercury	mg/kg	4.50E-01	1.43E-08	2.58E-07	2.77E-07	
80	1	Surface	Neptunium-237	pCi/g	5.05E-01	1.77E+01		1.14E-02	4.84E-01
80	1	Surface	PCB, Total	mg/kg	1.46E+01	4.66E-07	2.35E-05	5.10E-07	
80	1	Surface	Thorium-230	pCi/g	4.40E+00	1.54E+02		9.94E-02	4.22E+00
80	1	Surface	Total PAH	mg/kg	1.42E-01	4.51E-09	2.11E-07	2.16E-10	
80	1	Surface	Uranium	mg/kg	5.72E+03	1.82E-04	3.28E-03	1.18E-07	
80	1	Surface	Uranium-234	pCi/g	2.29E+02	8.02E+03		5.17E+00	2.20E+02
80	1	Surface	Uranium-235	pCi/g	3.00E+01	1.05E+03		6.77E-01	2.88E+01
80	1	Surface	Uranium-238	pCi/g	1.92E+03	6.72E+04		4.34E+01	1.84E+03
81	1	Surface	Aluminum	mg/kg	9.57E+03	3.05E-04	5.49E-03	1.97E-07	
81	1	Surface	Arsenic	mg/kg	1.03E+01	3.27E-07	3.53E-06	2.11E-10	
81	1	Surface	Beryllium	mg/kg	7.57E-01	2.41E-08	6.08E-08	1.56E-11	
81	1	Surface	Chromium	mg/kg	8.62E+01	2.75E-06	4.94E-05	1.77E-09	
81	1	Surface	Mercury	mg/kg	8.33E+00	2.65E-07	4.78E-06	5.14E-06	
81	1	Surface	Nickel	mg/kg	7.29E+01	2.32E-06	3.34E-05	1.50E-09	
81	1	Surface	PCB, Total	mg/kg	1.60E+02	5.09E-06	2.57E-04	5.58E-06	
81	1	Surface	Silver	mg/kg	2.70E+00	8.60E-08	1.24E-06	5.55E-11	
81	1	Surface	Total PAH	mg/kg	5.53E-01	1.76E-08	8.24E-07	8.44E-10	
81	1	Surface	Uranium	mg/kg	6.50E+03	2.07E-04	3.73E-03	1.34E-07	
81	1	Surface	Uranium-238	pCi/g	2.29E+00	8.00E+01		5.16E-02	2.19E+00
99	1	Surface	Chromium	mg/kg	5.51E+01	1.76E-06	3.16E-05	1.13E-09	
99	1	Surface	Cobalt-60	pCi/g	1.19E-02	4.17E-01		2.69E-04	1.14E-02
99	1	Surface	Mercury	mg/kg	9.53E+00	3.04E-07	5.46E-06	5.88E-06	
99	1	Surface	Nickel	mg/kg	7.02E+01	2.24E-06	3.22E-05	1.44E-09	
99	1	Surface	Silver	mg/kg	1.03E+01	3.28E-07	4.73E-06	2.12E-10	
99	1	Surface	Uranium-238	pCi/g	9.45E-01	3.31E+01		2.13E-02	9.06E-01
138	1	Surface	Antimony	mg/kg	5.39E+00	1.72E-07	3.09E-06	1.11E-10	
138	1	Surface	Arsenic	mg/kg	1.06E+01	3.38E-07	3.65E-06	2.18E-10	
138	1	Surface	Cadmium	mg/kg	5.42E+00	1.73E-07	6.22E-08	1.11E-10	
138	1	Surface	Chromium	mg/kg	5.39E+01	1.72E-06	3.09E-05	1.11E-09	
138	1	Surface	Mercury	mg/kg	1.30E+01	4.14E-07	7.45E-06	8.01E-06	
138	1	Surface	Nickel	mg/kg	7.04E+01	2.24E-06	3.23E-05	1.45E-09	
138	1	Surface	PCB, Total	mg/kg	5.00E-01	1.59E-08	8.03E-07	1.75E-08	
138	1	Surface	Silver	mg/kg	1.01E+01	3.21E-07	4.63E-06	2.07E-10	
138	1	Surface	Total PAH	mg/kg	9.74E-02	3.10E-09	1.45E-07	1.49E-10	
138	2	Surface	Nickel	mg/kg	7.99E+01	2.54E-06	3.66E-05	1.64E-09	
138	2	Surface	PCB, Total	mg/kg	9.20E-02	2.93E-09	1.48E-07	3.21E-09	
138	2	Surface	Silver	mg/kg	1.04E+01	3.33E-07	4.79E-06	2.15E-10	
138	2	Surface	Total PAH	mg/kg	3.84E-02	1.22E-09	5.73E-08	5.86E-11	
153	1	Surface	PCB, Total	mg/kg	5.09E-01	1.62E-08	8.17E-07	1.78E-08	
153	1	Surface	Total PAH	mg/kg	8.69E-02	2.77E-09	1.30E-07	1.33E-10	
154	1	Surface	Arsenic	mg/kg	1.52E+01	4.83E-07	5.22E-06	3.12E-10	
154	1	Surface	Chromium	mg/kg	4.28E+01	1.36E-06	2.45E-05	8.79E-10	
154	1	Surface	Nickel	mg/kg	9.89E+01	3.15E-06	4.54E-05	2.03E-09	
154	1	Surface	PCB, Total	mg/kg	3.20E+00	1.02E-07	5.14E-06	1.12E-07	
154	1	Surface	Total PAH	mg/kg	1.04E+00	3.31E-08	1.55E-06	1.59E-09	
154	1	Surface	Uranium	mg/kg	3.82E+01	1.22E-06	2.19E-05	7.85E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
154	1	Surface	Uranium-238	pCi/g	3.06E+00	1.07E+02		6.91E-02	2.93E+00
154	2	Surface	PCB, Total	mg/kg	4.00E-01	1.27E-08	6.42E-07	1.40E-08	
155	1	Surface	Antimony	mg/kg	3.65E+00	1.16E-07	2.10E-06	7.51E-11	
155	1	Surface	Chromium	mg/kg	3.47E+01	1.11E-06	1.99E-05	7.13E-10	
155	1	Surface	Neptunium-237	pCi/g	1.03E-01	3.61E+00		2.33E-03	9.88E-02
155	1	Surface	Nickel	mg/kg	7.65E+01	2.44E-06	3.51E-05	1.57E-09	
155	1	Surface	PCB, Total	mg/kg	9.20E+00	2.93E-07	1.48E-05	3.21E-07	
155	1	Surface	Silver	mg/kg	1.11E+01	3.53E-07	5.08E-06	2.28E-10	
156	1	Surface	Chromium	mg/kg	4.90E+01	1.56E-06	2.81E-05	1.01E-09	
156	1	Surface	Manganese	mg/kg	2.83E+03	9.02E-05	1.30E-03	5.82E-08	
156	1	Surface	Mercury	mg/kg	9.87E+00	3.14E-07	5.66E-06	6.09E-06	
156	1	Surface	Nickel	mg/kg	6.16E+01	1.96E-06	2.83E-05	1.27E-09	
156	1	Surface	PCB, Total	mg/kg	3.00E-01	9.56E-09	4.82E-07	1.05E-08	
156	1	Surface	Total PAH	mg/kg	8.26E-02	2.63E-09	1.23E-07	1.26E-10	
156	1	Surface	Uranium	mg/kg	2.32E+01	7.39E-07	1.33E-05	4.77E-10	
156	1	Surface	Uranium-238	pCi/g	2.19E+00	7.67E+01		4.95E-02	2.10E+00
158	1	Surface	Antimony	mg/kg	5.23E-01	1.67E-08	3.00E-07	1.07E-11	
158	1	Surface	Arsenic	mg/kg	1.01E+01	3.22E-07	3.48E-06	2.08E-10	
158	1	Surface	Barium	mg/kg	2.19E+02	6.97E-06	1.25E-04	4.49E-09	
158	1	Surface	Chromium	mg/kg	6.07E+01	1.94E-06	3.48E-05	1.25E-09	
158	1	Surface	Cobalt	mg/kg	1.62E+01	5.17E-07	9.30E-06	3.33E-10	
158	1	Surface	Manganese	mg/kg	9.91E+02	3.16E-05	4.54E-04	2.04E-08	
158	1	Surface	Mercury	mg/kg	1.05E+01	3.33E-07	6.00E-06	6.45E-06	
158	1	Surface	Nickel	mg/kg	7.28E+01	2.32E-06	3.34E-05	1.50E-09	
158	1	Surface	Thallium	mg/kg	3.12E-01	9.94E-09	1.79E-07	6.41E-12	
158	1	Surface	Total PAH	mg/kg	3.69E-01	1.18E-08	5.50E-07	5.63E-10	
158	1	Surface	Uranium	mg/kg	2.03E+01	6.47E-07	1.16E-05	4.17E-10	
158	1	Surface	Uranium-235	pCi/g	1.63E-01	5.71E+00		3.68E-03	1.56E-01
158	1	Surface	Uranium-238	pCi/g	3.79E+00	1.33E+02		8.56E-02	3.63E+00
160	1	Surface	Antimony	mg/kg	6.80E-01	2.17E-08	3.90E-07	1.40E-11	
160	1	Surface	Total PAH	mg/kg	5.29E-02	1.69E-09	7.89E-08	8.07E-11	
163	1	Surface	Chromium	mg/kg	4.94E+01	1.58E-06	2.84E-05	1.02E-09	
163	1	Surface	Total PAH	mg/kg	1.63E-01	5.19E-09	2.43E-07	2.49E-10	
165	1	Surface	Antimony	mg/kg	2.20E+00	7.01E-08	1.26E-06	4.52E-11	
165	1	Surface	Arsenic	mg/kg	6.35E+01	2.02E-06	2.18E-05	1.31E-09	
165	1	Surface	Barium	mg/kg	5.84E+02	1.86E-05	3.35E-04	1.20E-08	
165	1	Surface	Beryllium	mg/kg	6.82E-01	2.17E-08	5.48E-08	1.40E-11	
165	1	Surface	Cesium-137	pCi/g	3.47E+00	1.21E+02		7.84E-02	3.33E+00
165	1	Surface	Chromium	mg/kg	3.74E+01	1.19E-06	2.14E-05	7.68E-10	
165	1	Surface	Mercury	mg/kg	3.78E-01	1.20E-08	2.17E-07	2.33E-07	
165	1	Surface	Naphthalene	mg/kg	1.61E+00	5.13E-08	4.62E-06	1.11E-06	
165	1	Surface	Neptunium-237	pCi/g	4.26E-01	1.49E+01		9.62E-03	4.08E-01
165	1	Surface	Nickel	mg/kg	3.47E+01	1.11E-06	1.59E-05	7.13E-10	
165	1	Surface	PCB, Total	mg/kg	8.27E+00	2.63E-07	1.33E-05	2.89E-07	
165	1	Surface	Plutonium-239/240	pCi/g	2.81E+00	9.82E+01		6.33E-02	2.69E+00
165	1	Surface	Silver	mg/kg	3.09E+01	9.85E-07	1.42E-05	6.36E-10	
165	1	Surface	Thorium-230	pCi/g	6.02E+00	2.11E+02		1.36E-01	5.77E+00
165	1	Surface	Total PAH	mg/kg	1.87E+00	5.95E-08	2.79E-06	2.85E-09	
165	1	Surface	Uranium	mg/kg	1.08E+02	3.42E-06	6.16E-05	2.21E-09	
165	1	Surface	Uranium-234	pCi/g	5.76E+01	2.01E+03		1.30E+00	5.52E+01
165	1	Surface	Uranium-235	pCi/g	2.05E+00	7.16E+01		4.62E-02	1.96E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
165	1	Surface	Uranium-238	pCi/g	6.41E+01	2.24E+03		1.45E+00	6.15E+01
169	1	Surface	Aluminum	mg/kg	1.42E+04	4.52E-04	8.14E-03	2.92E-07	
169	1	Surface	Antimony	mg/kg	1.30E+00	4.14E-08	7.45E-07	2.67E-11	
169	1	Surface	Arsenic	mg/kg	2.03E+01	6.47E-07	6.98E-06	4.17E-10	
169	1	Surface	Beryllium	mg/kg	8.00E-01	2.55E-08	6.42E-08	1.64E-11	
169	1	Surface	Chromium	mg/kg	2.15E+02	6.85E-06	1.23E-04	4.42E-09	
169	1	Surface	Copper	mg/kg	3.74E+02	1.19E-05	2.15E-04	7.69E-09	
169	1	Surface	Iron	mg/kg	4.16E+04	1.32E-03	2.38E-02	8.54E-07	
169	1	Surface	Mercury	mg/kg	7.87E+00	2.51E-07	4.51E-06	4.85E-06	
169	1	Surface	Nickel	mg/kg	5.49E+02	1.75E-05	2.52E-04	1.13E-08	
169	1	Surface	PCB, Total	mg/kg	1.00E+01	3.19E-07	1.61E-05	3.49E-07	
169	1	Surface	Thallium	mg/kg	4.60E-01	1.47E-08	2.64E-07	9.45E-12	
169	1	Surface	Total PAH	mg/kg	4.59E+00	1.46E-07	6.84E-06	7.00E-09	
169	1	Surface	Uranium	mg/kg	5.03E+01	1.60E-06	2.88E-05	1.03E-09	
169	1	Surface	Uranium-234	pCi/g	6.55E+00	2.29E+02		1.48E-01	6.28E+00
169	1	Surface	Uranium-235	pCi/g	4.60E-01	1.61E+01		1.04E-02	4.41E-01
169	1	Surface	Uranium-238	pCi/g	8.12E+00	2.84E+02		1.83E-01	7.79E+00
170	1	Surface	Neptunium-237	pCi/g	1.15E-01	4.03E+00		2.60E-03	1.10E-01
170	1	Surface	Uranium-238	pCi/g	1.53E+00	5.36E+01		3.45E-02	1.47E+00
176	1	Surface	Arsenic	mg/kg	4.86E+01	1.55E-06	1.67E-05	9.98E-10	
176	1	Surface	Chromium	mg/kg	4.27E+01	1.36E-06	2.45E-05	8.78E-10	
176	1	Surface	Nickel	mg/kg	1.07E+02	3.41E-06	4.91E-05	2.20E-09	
176	1	Surface	Uranium	mg/kg	2.21E+01	7.04E-07	1.27E-05	4.54E-10	
180	1	Surface	Antimony	mg/kg	5.80E-01	1.85E-08	3.33E-07	1.19E-11	
180	1	Surface	Arsenic	mg/kg	7.48E+01	2.38E-06	2.57E-05	1.54E-09	
180	1	Surface	Chromium	mg/kg	5.54E+01	1.77E-06	3.18E-05	1.14E-09	
180	1	Surface	Mercury	mg/kg	8.28E+00	2.64E-07	4.75E-06	5.11E-06	
180	1	Surface	Nickel	mg/kg	8.77E+01	2.79E-06	4.02E-05	1.80E-09	
180	2	Surface	Antimony	mg/kg	4.58E-01	1.46E-08	2.63E-07	9.41E-12	
180	2	Surface	Arsenic	mg/kg	1.27E+01	4.03E-07	4.35E-06	2.60E-10	
180	2	Surface	Chromium	mg/kg	4.46E+01	1.42E-06	2.56E-05	9.17E-10	
180	2	Surface	Nickel	mg/kg	8.42E+01	2.68E-06	3.86E-05	1.73E-09	
180	2	Surface	Total PAH	mg/kg	9.19E-02	2.93E-09	1.37E-07	1.40E-10	
180	3	Surface	Arsenic	mg/kg	1.34E+01	4.25E-07	4.59E-06	2.74E-10	
180	3	Surface	Chromium	mg/kg	4.69E+01	1.50E-06	2.69E-05	9.65E-10	
180	3	Surface	Nickel	mg/kg	6.77E+01	2.16E-06	3.11E-05	1.39E-09	
180	3	Surface	Silver	mg/kg	1.14E+01	3.63E-07	5.23E-06	2.34E-10	
180	4	Surface	Arsenic	mg/kg	1.15E+01	3.67E-07	3.97E-06	2.37E-10	
180	4	Surface	Barium	mg/kg	2.13E+02	6.79E-06	1.22E-04	4.38E-09	
180	4	Surface	Beryllium	mg/kg	1.60E+00	5.10E-08	1.28E-07	3.29E-11	
180	4	Surface	Chromium	mg/kg	6.00E+01	1.91E-06	3.44E-05	1.23E-09	
180	4	Surface	Iron	mg/kg	1.54E+04	4.90E-04	8.81E-03	3.16E-07	
180	4	Surface	Manganese	mg/kg	7.09E+02	2.26E-05	3.25E-04	1.46E-08	
180	4	Surface	Nickel	mg/kg	6.46E+01	2.06E-06	2.96E-05	1.33E-09	
180	4	Surface	Silver	mg/kg	9.68E+00	3.08E-07	4.44E-06	1.99E-10	
180	4	Surface	Total PAH	mg/kg	2.15E-02	6.85E-10	3.21E-08	3.28E-11	
180	4	Surface	Vanadium	mg/kg	4.85E+01	1.55E-06	1.45E-05	9.97E-10	
181	1	Surface	Chromium	mg/kg	2.29E+01	7.28E-07	1.31E-05	4.70E-10	
181	1	Surface	Thallium	mg/kg	3.50E+00	1.12E-07	2.01E-06	7.19E-11	
181	1	Surface	Total PAH	mg/kg	3.43E-02	1.09E-09	5.11E-08	5.23E-11	
194	1	Surface	Antimony	mg/kg	1.50E+00	4.78E-08	8.60E-07	3.08E-11	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	1	Surface	Chromium	mg/kg	3.87E+01	1.23E-06	2.22E-05	7.96E-10	
194	1	Surface	Mercury	mg/kg	6.71E+00	2.14E-07	3.85E-06	4.14E-06	
194	1	Surface	Nickel	mg/kg	5.84E+01	1.86E-06	2.68E-05	1.20E-09	
194	1	Surface	Silver	mg/kg	1.09E+01	3.48E-07	5.01E-06	2.25E-10	
194	2	Surface	Chromium	mg/kg	5.96E+01	1.90E-06	3.42E-05	1.22E-09	
194	2	Surface	Silver	mg/kg	1.31E+01	4.18E-07	6.02E-06	2.70E-10	
194	2	Surface	Uranium	mg/kg	2.28E+01	7.26E-07	1.31E-05	4.68E-10	
194	2	Surface	Uranium-238	pCi/g	1.42E+00	4.97E+01		3.21E-02	1.36E+00
194	3	Surface	Antimony	mg/kg	6.90E-01	2.20E-08	3.96E-07	1.42E-11	
194	3	Surface	Arsenic	mg/kg	1.46E+01	4.66E-07	5.04E-06	3.01E-10	
194	3	Surface	Chromium	mg/kg	3.90E+01	1.24E-06	2.24E-05	8.01E-10	
194	3	Surface	Nickel	mg/kg	6.40E+01	2.04E-06	2.94E-05	1.32E-09	
194	3	Surface	Total PAH	mg/kg	3.93E-02	1.25E-09	5.86E-08	6.00E-11	
194	3	Surface	Uranium-238	pCi/g	1.28E+00	4.49E+01		2.90E-02	1.23E+00
194	4	Surface	Chromium	mg/kg	4.84E+01	1.54E-06	2.78E-05	9.95E-10	
194	4	Surface	Mercury	mg/kg	8.92E+00	2.84E-07	5.12E-06	5.50E-06	
194	4	Surface	Nickel	mg/kg	6.91E+01	2.20E-06	3.17E-05	1.42E-09	
194	4	Surface	Silver	mg/kg	1.18E+01	3.75E-07	5.40E-06	2.42E-10	
194	4	Surface	Total PAH	mg/kg	7.30E-02	2.32E-09	1.09E-07	1.11E-10	
194	4	Surface	Uranium-238	pCi/g	1.73E+00	6.06E+01		3.91E-02	1.66E+00
194	5	Surface	Chromium	mg/kg	4.58E+01	1.46E-06	2.63E-05	9.41E-10	
194	5	Surface	Mercury	mg/kg	8.69E+00	2.77E-07	4.98E-06	5.36E-06	
194	5	Surface	Nickel	mg/kg	7.54E+01	2.40E-06	3.46E-05	1.55E-09	
194	5	Surface	Silver	mg/kg	1.25E+01	3.97E-07	5.71E-06	2.56E-10	
194	5	Surface	Total PAH	mg/kg	2.37E-02	7.55E-10	3.53E-08	3.62E-11	
194	5	Surface	Uranium-238	pCi/g	1.38E+00	4.83E+01		3.12E-02	1.32E+00
194	6	Surface	Chromium	mg/kg	3.70E+01	1.18E-06	2.12E-05	7.61E-10	
194	6	Surface	Manganese	mg/kg	1.08E+03	3.44E-05	4.95E-04	2.22E-08	
194	6	Surface	Nickel	mg/kg	8.06E+01	2.57E-06	3.70E-05	1.66E-09	
194	6	Surface	Silver	mg/kg	9.89E+00	3.15E-07	4.54E-06	2.03E-10	
194	6	Surface	Uranium-238	pCi/g	1.32E+00	4.62E+01		2.98E-02	1.27E+00
194	7	Surface	Chromium	mg/kg	5.32E+01	1.69E-06	3.05E-05	1.09E-09	
194	7	Surface	Nickel	mg/kg	7.71E+01	2.46E-06	3.54E-05	1.59E-09	
194	7	Surface	Silver	mg/kg	1.25E+01	3.98E-07	5.73E-06	2.57E-10	
194	8	Surface	Chromium	mg/kg	5.36E+01	1.71E-06	3.07E-05	1.10E-09	
194	8	Surface	Manganese	mg/kg	8.00E+02	2.55E-05	3.67E-04	1.64E-08	
194	8	Surface	Total PAH	mg/kg	4.85E-01	1.55E-08	7.23E-07	7.40E-10	
194	8	Surface	Uranium-238	pCi/g	1.39E+00	4.87E+01		3.14E-02	1.33E+00
194	9	Surface	Arsenic	mg/kg	1.14E+01	3.64E-07	3.93E-06	2.35E-10	
194	9	Surface	Chromium	mg/kg	5.17E+01	1.65E-06	2.96E-05	1.06E-09	
194	10	Surface	Arsenic	mg/kg	1.22E+01	3.87E-07	4.18E-06	2.50E-10	
194	10	Surface	Cesium-137	pCi/g	5.81E-01	2.03E+01		1.31E-02	5.57E-01
194	10	Surface	Chromium	mg/kg	3.63E+01	1.16E-06	2.08E-05	7.46E-10	
194	10	Surface	Nickel	mg/kg	7.60E+01	2.42E-06	3.49E-05	1.56E-09	
194	10	Surface	Total PAH	mg/kg	2.57E-01	8.19E-09	3.83E-07	3.92E-10	
194	10	Surface	Uranium-238	pCi/g	1.49E+00	5.22E+01		3.36E-02	1.43E+00
194	11	Surface	Chromium	mg/kg	3.27E+01	1.04E-06	1.87E-05	6.72E-10	
194	11	Surface	Mercury	mg/kg	8.09E+00	2.58E-07	4.64E-06	4.99E-06	
194	11	Surface	Nickel	mg/kg	1.01E+02	3.21E-06	4.62E-05	2.07E-09	
194	11	Surface	PCB, Total	mg/kg	8.40E-02	2.68E-09	1.35E-07	2.93E-09	
194	11	Surface	Silver	mg/kg	1.33E+01	4.23E-07	6.10E-06	2.73E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	11	Surface	Total PAH	mg/kg	7.95E-02	2.53E-09	1.19E-07	1.21E-10	
194	12	Surface	Chromium	mg/kg	6.34E+01	2.02E-06	3.63E-05	1.30E-09	
194	12	Surface	Nickel	mg/kg	7.86E+01	2.50E-06	3.61E-05	1.62E-09	
194	12	Surface	Silver	mg/kg	1.20E+01	3.82E-07	5.50E-06	2.46E-10	
194	12	Surface	Total PAH	mg/kg	8.91E-01	2.84E-08	1.33E-06	1.36E-09	
194	13	Surface	Chromium	mg/kg	4.77E+01	1.52E-06	2.73E-05	9.79E-10	
194	13	Surface	Nickel	mg/kg	6.03E+01	1.92E-06	2.77E-05	1.24E-09	
194	13	Surface	Total PAH	mg/kg	9.13E-02	2.91E-09	1.36E-07	1.39E-10	
194	14	Surface	Chromium	mg/kg	5.21E+01	1.66E-06	2.99E-05	1.07E-09	
194	14	Surface	Mercury	mg/kg	8.14E+00	2.59E-07	4.67E-06	5.02E-06	
194	15	Surface	Chromium	mg/kg	5.33E+01	1.70E-06	3.06E-05	1.10E-09	
194	15	Surface	Silver	mg/kg	1.03E+01	3.28E-07	4.73E-06	2.12E-10	
194	16	Surface	Antimony	mg/kg	7.40E-01	2.36E-08	4.24E-07	1.52E-11	
194	16	Surface	Arsenic	mg/kg	1.15E+01	3.67E-07	3.96E-06	2.37E-10	
194	16	Surface	Beryllium	mg/kg	8.70E-01	2.77E-08	6.98E-08	1.79E-11	
194	16	Surface	Chromium	mg/kg	5.32E+01	1.70E-06	3.05E-05	1.09E-09	
194	16	Surface	Nickel	mg/kg	7.20E+01	2.29E-06	3.30E-05	1.48E-09	
194	16	Surface	Thallium	mg/kg	6.30E-01	2.01E-08	3.61E-07	1.29E-11	
194	16	Surface	Vanadium	mg/kg	4.11E+01	1.31E-06	1.23E-05	8.45E-10	
194	17	Surface	Arsenic	mg/kg	1.16E+01	3.68E-07	3.97E-06	2.37E-10	
194	17	Surface	Cadmium	mg/kg	1.10E+00	3.50E-08	1.26E-08	2.26E-11	
194	17	Surface	Chromium	mg/kg	4.65E+01	1.48E-06	2.67E-05	9.55E-10	
194	17	Surface	Total PAH	mg/kg	1.59E-01	5.05E-09	2.37E-07	2.42E-10	
194	18	Surface	Arsenic	mg/kg	1.06E+01	3.37E-07	3.64E-06	2.17E-10	
194	18	Surface	Beryllium	mg/kg	7.40E-01	2.36E-08	5.94E-08	1.52E-11	
194	18	Surface	Chromium	mg/kg	6.85E+01	2.18E-06	3.93E-05	1.41E-09	
194	18	Surface	Nickel	mg/kg	5.78E+01	1.84E-06	2.65E-05	1.19E-09	
194	19	Surface	Arsenic	mg/kg	1.07E+01	3.41E-07	3.68E-06	2.20E-10	
194	19	Surface	Chromium	mg/kg	4.84E+01	1.54E-06	2.77E-05	9.94E-10	
194	19	Surface	Nickel	mg/kg	5.84E+01	1.86E-06	2.68E-05	1.20E-09	
194	20	Surface	Arsenic	mg/kg	1.18E+01	3.77E-07	4.07E-06	2.43E-10	
194	20	Surface	Barium	mg/kg	3.26E+02	1.04E-05	1.87E-04	6.70E-09	
194	20	Surface	Beryllium	mg/kg	1.10E+00	3.50E-08	8.83E-08	2.26E-11	
194	20	Surface	Chromium	mg/kg	5.24E+01	1.67E-06	3.00E-05	1.08E-09	
194	20	Surface	Cobalt	mg/kg	2.11E+01	6.72E-07	1.21E-05	4.34E-10	
194	20	Surface	Manganese	mg/kg	2.29E+03	7.31E-05	1.05E-03	4.71E-08	
194	20	Surface	Mercury	mg/kg	7.28E+00	2.32E-07	4.17E-06	4.49E-06	
194	20	Surface	Nickel	mg/kg	6.57E+01	2.09E-06	3.01E-05	1.35E-09	
194	20	Surface	Silver	mg/kg	1.22E+01	3.89E-07	5.61E-06	2.51E-10	
194	20	Surface	Total PAH	mg/kg	3.10E-02	9.88E-10	4.62E-08	4.73E-11	
194	20	Surface	Vanadium	mg/kg	3.81E+01	1.21E-06	1.14E-05	7.83E-10	
194	21	Surface	Antimony	mg/kg	9.30E-01	2.96E-08	5.33E-07	1.91E-11	
194	21	Surface	Chromium	mg/kg	5.51E+01	1.76E-06	3.16E-05	1.13E-09	
194	21	Surface	Mercury	mg/kg	6.62E+00	2.11E-07	3.80E-06	4.08E-06	
194	21	Surface	Nickel	mg/kg	7.01E+01	2.23E-06	3.22E-05	1.44E-09	
194	21	Surface	Thallium	mg/kg	6.40E-01	2.04E-08	3.67E-07	1.32E-11	
194	22	Surface	Chromium	mg/kg	4.90E+01	1.56E-06	2.81E-05	1.01E-09	
194	22	Surface	Manganese	mg/kg	8.19E+02	2.61E-05	3.76E-04	1.68E-08	
194	22	Surface	PCB, Total	mg/kg	1.09E+01	3.48E-07	1.75E-05	3.81E-07	
194	23	Surface	Arsenic	mg/kg	1.16E+01	3.68E-07	3.97E-06	2.37E-10	
194	23	Surface	Chromium	mg/kg	6.60E+01	2.10E-06	3.78E-05	1.36E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
194	23	Surface	Iron	mg/kg	1.83E+04	5.82E-04	1.05E-02	3.76E-07	
194	23	Surface	Nickel	mg/kg	8.77E+01	2.79E-06	4.02E-05	1.80E-09	
194	23	Surface	Silver	mg/kg	1.15E+01	3.66E-07	5.27E-06	2.36E-10	
194	24	Surface	Chromium	mg/kg	5.02E+01	1.60E-06	2.88E-05	1.03E-09	
194	24	Surface	Nickel	mg/kg	7.08E+01	2.25E-06	3.25E-05	1.45E-09	
194	24	Surface	Total PAH	mg/kg	2.28E-02	7.26E-10	3.40E-08	3.48E-11	
194	25	Surface	Barium	mg/kg	3.00E+02	9.56E-06	1.72E-04	6.17E-09	
194	25	Surface	Chromium	mg/kg	6.13E+01	1.95E-06	3.51E-05	1.26E-09	
194	25	Surface	Manganese	mg/kg	9.96E+02	3.17E-05	4.57E-04	2.05E-08	
194	25	Surface	Nickel	mg/kg	6.33E+01	2.02E-06	2.90E-05	1.30E-09	
194	25	Surface	Total PAH	mg/kg	2.06E-02	6.56E-10	3.07E-08	3.14E-11	
194	26	Surface	Beryllium	mg/kg	7.00E-01	2.23E-08	5.62E-08	1.44E-11	
194	26	Surface	Chromium	mg/kg	4.18E+01	1.33E-06	2.40E-05	8.60E-10	
194	26	Surface	Silver	mg/kg	1.03E+01	3.27E-07	4.71E-06	2.11E-10	
194	26	Surface	Thallium	mg/kg	3.90E-01	1.24E-08	2.24E-07	8.02E-12	
194	27	Surface	Chromium	mg/kg	5.22E+01	1.66E-06	2.99E-05	1.07E-09	
194	27	Surface	Nickel	mg/kg	6.55E+01	2.09E-06	3.00E-05	1.35E-09	
194	27	Surface	Silver	mg/kg	1.01E+01	3.22E-07	4.64E-06	2.08E-10	
194	28	Surface	Arsenic	mg/kg	1.20E+01	3.83E-07	4.14E-06	2.47E-10	
194	28	Surface	Beryllium	mg/kg	7.10E-01	2.26E-08	5.70E-08	1.46E-11	
194	28	Surface	Chromium	mg/kg	6.07E+01	1.93E-06	3.48E-05	1.25E-09	
194	28	Surface	Manganese	mg/kg	1.14E+03	3.63E-05	5.22E-04	2.34E-08	
194	28	Surface	Nickel	mg/kg	6.95E+01	2.21E-06	3.19E-05	1.43E-09	
194	28	Surface	Silver	mg/kg	1.08E+01	3.44E-07	4.95E-06	2.22E-10	
194	28	Surface	Vanadium	mg/kg	4.06E+01	1.29E-06	1.21E-05	8.34E-10	
194	29	Surface	Antimony	mg/kg	7.10E-01	2.26E-08	4.07E-07	1.46E-11	
194	29	Surface	Chromium	mg/kg	5.06E+01	1.61E-06	2.90E-05	1.04E-09	
194	29	Surface	Nickel	mg/kg	6.51E+01	2.07E-06	2.99E-05	1.34E-09	
194	29	Surface	Silver	mg/kg	9.77E+00	3.11E-07	4.48E-06	2.01E-10	
194	30	Surface	Chromium	mg/kg	5.66E+01	1.80E-06	3.24E-05	1.16E-09	
194	30	Surface	Mercury	mg/kg	8.80E+00	2.80E-07	5.05E-06	5.43E-06	
194	30	Surface	Nickel	mg/kg	6.99E+01	2.23E-06	3.21E-05	1.44E-09	
194	30	Surface	Silver	mg/kg	9.76E+00	3.11E-07	4.48E-06	2.01E-10	
194	31	Surface	Cesium-137	pCi/g	5.70E-01	2.00E+01		1.29E-02	5.47E-01
194	31	Surface	Uranium-238	pCi/g	1.72E+00	6.02E+01		3.88E-02	1.65E+00
195	1	Surface	Chromium	mg/kg	6.33E+01	2.02E-06	3.63E-05	1.30E-09	
195	1	Surface	Nickel	mg/kg	7.02E+01	2.24E-06	3.22E-05	1.44E-09	
195	1	Surface	Silver	mg/kg	9.37E+00	2.99E-07	4.30E-06	1.93E-10	
195	2	Surface	Chromium	mg/kg	4.52E+01	1.44E-06	2.59E-05	9.29E-10	
195	2	Surface	Silver	mg/kg	9.48E+00	3.02E-07	4.35E-06	1.95E-10	
195	2	Surface	Total PAH	mg/kg	2.68E-02	8.54E-10	4.00E-08	4.09E-11	
195	3	Surface	Chromium	mg/kg	5.03E+01	1.60E-06	2.88E-05	1.03E-09	
195	3	Surface	Nickel	mg/kg	5.22E+01	1.66E-06	2.39E-05	1.07E-09	
195	3	Surface	Total PAH	mg/kg	4.06E-02	1.29E-09	6.05E-08	6.19E-11	
195	4	Surface	Chromium	mg/kg	5.29E+01	1.69E-06	3.03E-05	1.09E-09	
195	4	Surface	Nickel	mg/kg	6.23E+01	1.98E-06	2.86E-05	1.28E-09	
195	5	Surface	Chromium	mg/kg	5.74E+01	1.83E-06	3.29E-05	1.18E-09	
195	5	Surface	Nickel	mg/kg	8.11E+01	2.58E-06	3.72E-05	1.67E-09	
195	5	Surface	Total PAH	mg/kg	2.40E-02	7.65E-10	3.58E-08	3.66E-11	
195	6	Surface	Chromium	mg/kg	4.45E+01	1.42E-06	2.55E-05	9.15E-10	
195	6	Surface	Nickel	mg/kg	8.71E+01	2.78E-06	4.00E-05	1.79E-09	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
195	6	Surface	Total PAH	mg/kg	2.48E-01	7.89E-09	3.69E-07	3.78E-10	
195	7	Surface	Chromium	mg/kg	4.93E+01	1.57E-06	2.82E-05	1.01E-09	
195	7	Surface	Silver	mg/kg	8.06E+00	2.57E-07	3.70E-06	1.66E-10	
195	8	Surface	Arsenic	mg/kg	1.16E+01	3.68E-07	3.98E-06	2.38E-10	
195	8	Surface	Beryllium	mg/kg	7.40E-01	2.36E-08	5.94E-08	1.52E-11	
195	8	Surface	Chromium	mg/kg	6.79E+01	2.16E-06	3.90E-05	1.40E-09	
195	8	Surface	Cobalt	mg/kg	1.82E+01	5.80E-07	1.04E-05	3.74E-10	
195	8	Surface	Nickel	mg/kg	7.01E+01	2.23E-06	3.22E-05	1.44E-09	
195	8	Surface	Total PAH	mg/kg	2.16E-01	6.87E-09	3.21E-07	3.29E-10	
195	8	Surface	Vanadium	mg/kg	4.04E+01	1.29E-06	1.20E-05	8.30E-10	
195	9	Surface	Chromium	mg/kg	6.08E+01	1.94E-06	3.49E-05	1.25E-09	
195	9	Surface	Nickel	mg/kg	7.93E+01	2.53E-06	3.64E-05	1.63E-09	
195	10	Surface	Chromium	mg/kg	4.51E+01	1.44E-06	2.58E-05	9.26E-10	
195	10	Surface	Nickel	mg/kg	7.40E+01	2.36E-06	3.40E-05	1.52E-09	
195	10	Surface	Silver	mg/kg	1.31E+01	4.18E-07	6.01E-06	2.69E-10	
195	11	Surface	Aluminum	mg/kg	2.81E+04	8.95E-04	1.61E-02	5.78E-07	
195	11	Surface	Arsenic	mg/kg	1.35E+01	4.29E-07	4.63E-06	2.77E-10	
195	11	Surface	Barium	mg/kg	4.53E+02	1.44E-05	2.60E-04	9.31E-09	
195	11	Surface	Chromium	mg/kg	5.05E+01	1.61E-06	2.90E-05	1.04E-09	
195	11	Surface	Cobalt	mg/kg	2.77E+01	8.82E-07	1.59E-05	5.69E-10	
195	11	Surface	Iron	mg/kg	1.97E+04	6.28E-04	1.13E-02	4.05E-07	
195	11	Surface	Nickel	mg/kg	6.77E+01	2.16E-06	3.11E-05	1.39E-09	
195	11	Surface	Thallium	mg/kg	6.60E-01	2.10E-08	3.78E-07	1.36E-11	
195	11	Surface	Vanadium	mg/kg	7.97E+01	2.54E-06	2.38E-05	1.64E-09	
195	12	Surface	Beryllium	mg/kg	7.50E-01	2.39E-08	6.02E-08	1.54E-11	
195	12	Surface	Chromium	mg/kg	7.04E+01	2.24E-06	4.04E-05	1.45E-09	
195	12	Surface	Nickel	mg/kg	6.78E+01	2.16E-06	3.11E-05	1.39E-09	
195	13	Surface	Chromium	mg/kg	6.55E+01	2.09E-06	3.76E-05	1.35E-09	
195	13	Surface	Nickel	mg/kg	6.91E+01	2.20E-06	3.17E-05	1.42E-09	
195	14	Surface	Chromium	mg/kg	5.94E+01	1.89E-06	3.41E-05	1.22E-09	
195	14	Surface	Nickel	mg/kg	7.04E+01	2.24E-06	3.23E-05	1.45E-09	
195	15	Surface	Chromium	mg/kg	4.82E+01	1.53E-06	2.76E-05	9.90E-10	
195	16	Surface	Chromium	mg/kg	4.45E+01	1.42E-06	2.55E-05	9.14E-10	
195	16	Surface	Nickel	mg/kg	8.16E+01	2.60E-06	3.74E-05	1.68E-09	
195	17	Surface	Chromium	mg/kg	8.22E+01	2.62E-06	4.71E-05	1.69E-09	
195	17	Surface	Mercury	mg/kg	4.17E-01	1.33E-08	2.39E-07	2.57E-07	
195	17	Surface	Nickel	mg/kg	5.93E+01	1.89E-06	2.72E-05	1.22E-09	
195	17	Surface	PCB, Total	mg/kg	7.40E-01	2.36E-08	1.19E-06	2.58E-08	
195	17	Surface	Silver	mg/kg	1.01E+01	3.23E-07	4.65E-06	2.08E-10	
195	17	Surface	Thallium	mg/kg	5.40E-01	1.72E-08	3.10E-07	1.11E-11	
195	17	Surface	Total PAH	mg/kg	3.16E-01	1.01E-08	4.71E-07	4.82E-10	
195	17	Surface	Uranium-235	pCi/g	1.32E-01	4.62E+00		2.98E-03	1.27E-01
195	17	Surface	Uranium-238	pCi/g	2.48E+00	8.68E+01		5.60E-02	2.38E+00
196	1	Surface	Antimony	mg/kg	5.90E-01	1.88E-08	3.38E-07	1.21E-11	
196	1	Surface	Chromium	mg/kg	1.96E+01	6.24E-07	1.12E-05	4.03E-10	
196	1	Surface	Neptunium-237	pCi/g	3.11E-01	1.09E+01		7.02E-03	2.98E-01
196	1	Surface	Nickel	mg/kg	5.56E+02	1.77E-05	2.55E-04	1.14E-08	
196	1	Surface	Uranium	mg/kg	2.33E+01	7.42E-07	1.34E-05	4.79E-10	
196	1	Surface	Uranium-238	pCi/g	1.54E+00	5.39E+01		3.48E-02	1.48E+00
196	2	Surface	Barium	mg/kg	2.02E+02	6.44E-06	1.16E-04	4.15E-09	
196	2	Surface	Cadmium	mg/kg	2.53E+00	8.06E-08	2.90E-08	5.20E-11	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
196	2	Surface	Chromium	mg/kg	2.07E+01	6.59E-07	1.19E-05	4.25E-10	
196	2	Surface	Nickel	mg/kg	7.36E+01	2.34E-06	3.38E-05	1.51E-09	
196	2	Surface	PCB, Total	mg/kg	1.51E+00	4.81E-08	2.42E-06	5.27E-08	
196	2	Surface	Total PAH	mg/kg	6.80E-01	2.17E-08	1.01E-06	1.04E-09	
196	2	Surface	Uranium-238	pCi/g	2.21E+00	7.74E+01		4.99E-02	2.12E+00
200	1	Surface	Antimony	mg/kg	5.60E-01	1.78E-08	3.21E-07	1.15E-11	
200	1	Surface	Cesium-137	pCi/g	5.74E-01	2.01E+01		1.30E-02	5.50E-01
200	1	Surface	Chromium	mg/kg	5.75E+01	1.83E-06	3.30E-05	1.18E-09	
200	1	Surface	Mercury	mg/kg	6.71E+00	2.14E-07	3.85E-06	4.14E-06	
200	1	Surface	Nickel	mg/kg	1.28E+02	4.08E-06	5.87E-05	2.63E-09	
200	1	Surface	PCB, Total	mg/kg	2.60E+00	8.28E-08	4.17E-06	9.07E-08	
200	1	Surface	Total PAH	mg/kg	2.84E-02	9.05E-10	4.23E-08	4.33E-11	
200	1	Surface	Uranium	mg/kg	2.73E+01	8.70E-07	1.57E-05	5.61E-10	
200	1	Surface	Uranium-235	pCi/g	1.43E-01	5.01E+00		3.23E-03	1.37E-01
200	1	Surface	Uranium-238	pCi/g	3.58E+00	1.25E+02		8.08E-02	3.43E+00
204	1	Surface	Aluminum	mg/kg	1.48E+04	4.71E-04	8.49E-03	3.04E-07	
204	1	Surface	Beryllium	mg/kg	1.36E+00	4.33E-08	1.09E-07	2.80E-11	
204	1	Surface	Cadmium	mg/kg	2.73E+00	8.70E-08	3.13E-08	5.61E-11	
204	1	Surface	Chromium	mg/kg	7.40E+01	2.36E-06	4.24E-05	1.52E-09	
204	1	Surface	Iron	mg/kg	4.19E+04	1.33E-03	2.40E-02	8.61E-07	
204	1	Surface	PCB, Total	mg/kg	2.53E+00	8.06E-08	4.06E-06	8.83E-08	
204	1	Surface	Uranium-235	pCi/g	1.80E-01	6.30E+00		4.06E-03	1.73E-01
204	1	Surface	Uranium-238	pCi/g	5.20E+00	1.82E+02		1.17E-01	4.99E+00
204	1	Surface	Vanadium	mg/kg	7.55E+01	2.41E-06	2.25E-05	1.55E-09	
204	2	Surface	Aluminum	mg/kg	1.37E+04	4.36E-04	7.86E-03	2.82E-07	
204	2	Surface	Chromium	mg/kg	1.80E+01	5.73E-07	1.03E-05	3.70E-10	
204	2	Surface	PCB, Total	mg/kg	1.70E-01	5.42E-09	2.73E-07	5.93E-09	
204	3	Surface	Chromium	mg/kg	2.06E+01	6.56E-07	1.18E-05	4.23E-10	
204	3	Surface	Uranium-238	pCi/g	2.50E+00	8.75E+01		5.65E-02	2.40E+00
204	4	Surface	Antimony	mg/kg	1.10E+00	3.50E-08	6.31E-07	2.26E-11	
204	4	Surface	Chromium	mg/kg	2.89E+01	9.21E-07	1.66E-05	5.94E-10	
204	4	Surface	Uranium-235	pCi/g	1.88E-01	6.57E+00		4.24E-03	1.80E-01
204	4	Surface	Uranium-238	pCi/g	9.72E+00	3.40E+02		2.20E-01	9.32E+00
204	18	Surface	Cesium-137	pCi/g	6.30E-01	2.21E+01		1.42E-02	6.04E-01
204	18	Surface	Uranium	mg/kg	1.60E+01	5.10E-07	9.17E-06	3.29E-10	
204	18	Surface	Uranium-235	pCi/g	1.25E-01	4.38E+00		2.82E-03	1.20E-01
204	18	Surface	Uranium-238	pCi/g	5.37E+00	1.88E+02		1.21E-01	5.15E+00
204	23	Surface	Americium-241	pCi/g	3.71E+00	1.30E+02		8.38E-02	3.56E+00
204	23	Surface	Beryllium	mg/kg	1.33E+00	4.24E-08	1.07E-07	2.73E-11	
204	23	Surface	Cesium-137	pCi/g	1.17E+00	4.10E+01		2.65E-02	1.12E+00
204	23	Surface	Chromium	mg/kg	1.75E+02	5.58E-06	1.00E-04	3.60E-09	
204	23	Surface	Cobalt-60	pCi/g	1.23E-02	4.29E-01		2.77E-04	1.17E-02
204	23	Surface	PCB, Total	mg/kg	7.90E+01	2.52E-06	1.27E-04	2.76E-06	
204	23	Surface	Uranium	mg/kg	1.31E+04	4.16E-04	7.49E-03	2.69E-07	
204	23	Surface	Uranium-234	pCi/g	4.45E+02	1.56E+04		1.00E+01	4.27E+02
204	23	Surface	Uranium-235	pCi/g	5.70E+01	2.00E+03		1.29E+00	5.47E+01
204	23	Surface	Uranium-238	pCi/g	4.39E+03	1.54E+05		9.90E+01	4.21E+03
211	1	Surface	Chromium	mg/kg	4.48E+01	1.43E-06	2.57E-05	9.20E-10	
211	1	Surface	Neptunium-237	pCi/g	1.46E-01	5.11E+00		3.30E-03	1.40E-01
211	1	Surface	PCB, Total	mg/kg	3.60E-01	1.15E-08	5.78E-07	1.26E-08	
211	1	Surface	Total PAH	mg/kg	1.04E-01	3.31E-09	1.55E-07	1.58E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
211	1	Surface	Uranium	mg/kg	2.19E+01	6.96E-07	1.25E-05	4.49E-10	
211	1	Surface	Uranium-235	pCi/g	2.12E-01	7.42E+00		4.79E-03	2.03E-01
211	1	Surface	Uranium-238	pCi/g	5.84E+00	2.04E+02		1.32E-01	5.60E+00
212	1	Surface	Arsenic	mg/kg	1.44E+01	4.59E-07	4.96E-06	2.96E-10	
212	1	Surface	Beryllium	mg/kg	8.10E-01	2.58E-08	6.50E-08	1.66E-11	
212	1	Surface	Cesium-137	pCi/g	6.01E-01	2.10E+01		1.36E-02	5.76E-01
212	1	Surface	Chromium	mg/kg	3.58E+01	1.14E-06	2.05E-05	7.36E-10	
212	1	Surface	Cobalt-60	pCi/g	8.76E-03	3.07E-01		1.98E-04	8.40E-03
212	1	Surface	Iron	mg/kg	4.14E+04	1.32E-03	2.37E-02	8.51E-07	
212	1	Surface	Neptunium-237	pCi/g	4.00E+00	1.40E+02		9.03E-02	3.84E+00
212	1	Surface	Nickel	mg/kg	8.69E+01	2.77E-06	3.99E-05	1.79E-09	
212	1	Surface	PCB, Total	mg/kg	1.80E-01	5.73E-09	2.89E-07	6.28E-09	
212	1	Surface	Plutonium-239/240	pCi/g	6.71E+00	2.35E+02		1.52E-01	6.43E+00
212	1	Surface	Thorium-230	pCi/g	2.60E+02	9.10E+03		5.87E+00	2.49E+02
212	1	Surface	Uranium	mg/kg	2.30E+01	7.33E-07	1.32E-05	4.73E-10	
212	1	Surface	Uranium-235	pCi/g	2.09E-01	7.32E+00		4.72E-03	2.00E-01
212	1	Surface	Uranium-238	pCi/g	3.17E+00	1.11E+02		7.16E-02	3.04E+00
213	1	Surface	Antimony	mg/kg	8.50E-01	2.71E-08	4.87E-07	1.75E-11	
213	1	Surface	Chromium	mg/kg	4.78E+01	1.52E-06	2.74E-05	9.83E-10	
213	1	Surface	Nickel	mg/kg	6.67E+01	2.13E-06	3.06E-05	1.37E-09	
213	1	Surface	PCB, Total	mg/kg	7.30E-02	2.33E-09	1.17E-07	2.55E-09	
213	1	Surface	Silver	mg/kg	1.32E+01	4.20E-07	6.04E-06	2.71E-10	
213	1	Surface	Total PAH	mg/kg	1.72E-01	5.47E-09	2.56E-07	2.62E-10	
213	1	Surface	Uranium-238	pCi/g	2.33E+00	8.16E+01		5.26E-02	2.23E+00
213	2	Surface	Chromium	mg/kg	4.48E+01	1.43E-06	2.57E-05	9.21E-10	
213	2	Surface	Nickel	mg/kg	9.10E+01	2.90E-06	4.17E-05	1.87E-09	
213	2	Surface	Silver	mg/kg	1.13E+01	3.59E-07	5.17E-06	2.31E-10	
214	1	Surface	Antimony	mg/kg	5.70E-01	1.82E-08	3.27E-07	1.17E-11	
215	1	Surface	Antimony	mg/kg	6.80E-01	2.17E-08	3.90E-07	1.40E-11	
215	1	Surface	Chromium	mg/kg	5.73E+01	1.83E-06	3.29E-05	1.18E-09	
215	1	Surface	Iron	mg/kg	3.87E+04	1.23E-03	2.22E-02	7.95E-07	
215	1	Surface	Nickel	mg/kg	7.32E+01	2.33E-06	3.36E-05	1.50E-09	
215	1	Surface	Total PAH	mg/kg	8.09E-02	2.58E-09	1.21E-07	1.23E-10	
216	1	Surface	Chromium	mg/kg	2.38E+01	7.58E-07	1.36E-05	4.89E-10	
216	1	Surface	Total PAH	mg/kg	1.49E-01	4.76E-09	2.23E-07	2.28E-10	
216	1	Surface	Uranium-238	pCi/g	1.33E+00	4.66E+01		3.00E-02	1.28E+00
217	1	Surface	Chromium	mg/kg	8.58E+01	2.73E-06	4.92E-05	1.76E-09	
217	1	Surface	Cobalt	mg/kg	1.96E+01	6.23E-07	1.12E-05	4.02E-10	
217	1	Surface	Manganese	mg/kg	7.70E+02	2.45E-05	3.53E-04	1.58E-08	
217	1	Surface	Nickel	mg/kg	8.54E+01	2.72E-06	3.92E-05	1.76E-09	
217	1	Surface	Silver	mg/kg	1.35E+01	4.28E-07	6.17E-06	2.76E-10	
217	1	Surface	Uranium-238	pCi/g	1.15E+00	4.04E+01		2.61E-02	1.11E+00
217	2	Surface	Antimony	mg/kg	1.70E+00	5.42E-08	9.75E-07	3.49E-11	
217	2	Surface	Arsenic	mg/kg	1.12E+01	3.56E-07	3.84E-06	2.29E-10	
217	2	Surface	Chromium	mg/kg	1.02E+02	3.24E-06	5.83E-05	2.09E-09	
217	2	Surface	Cobalt	mg/kg	1.74E+01	5.54E-07	9.98E-06	3.58E-10	
217	2	Surface	Iron	mg/kg	3.09E+04	9.85E-04	1.77E-02	6.36E-07	
217	2	Surface	Manganese	mg/kg	8.44E+02	2.69E-05	3.87E-04	1.73E-08	
217	2	Surface	Mercury	mg/kg	8.59E+00	2.74E-07	4.93E-06	5.30E-06	
217	2	Surface	Nickel	mg/kg	9.74E+01	3.10E-06	4.47E-05	2.00E-09	
217	2	Surface	Silver	mg/kg	1.61E+01	5.13E-07	7.38E-06	3.31E-10	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
217	2	Surface	Total PAH	mg/kg	5.05E-01	1.61E-08	7.53E-07	7.70E-10	
219	1	Surface	Neptunium-237	pCi/g	3.31E-01	1.16E+01		7.47E-03	3.17E-01
219	1	Surface	Nickel	mg/kg	6.71E+01	2.14E-06	3.08E-05	1.38E-09	
219	1	Surface	Total PAH	mg/kg	7.50E-02	2.39E-09	1.12E-07	1.14E-10	
219	1	Surface	Uranium-235	pCi/g	1.92E-01	6.72E+00		4.34E-03	1.84E-01
219	1	Surface	Uranium-238	pCi/g	4.40E+00	1.54E+02		9.94E-02	4.22E+00
221	1	Surface	Barium	mg/kg	2.21E+02	7.04E-06	1.27E-04	4.54E-09	
221	1	Surface	Chromium	mg/kg	7.01E+01	2.23E-06	4.02E-05	1.44E-09	
221	1	Surface	Iron	mg/kg	1.90E+04	6.05E-04	1.09E-02	3.90E-07	
221	1	Surface	Nickel	mg/kg	7.93E+01	2.53E-06	3.64E-05	1.63E-09	
221	1	Surface	PCB, Total	mg/kg	5.00E-01	1.59E-08	8.03E-07	1.75E-08	
221	1	Surface	Total PAH	mg/kg	1.02E+00	3.26E-08	1.52E-06	1.56E-09	
221	1	Surface	Uranium	mg/kg	1.64E+01	5.21E-07	9.38E-06	3.36E-10	
221	1	Surface	Uranium-238	pCi/g	1.93E+00	6.76E+01		4.36E-02	1.85E+00
222	1	Surface	Chromium	mg/kg	4.73E+01	1.51E-06	2.71E-05	9.72E-10	
222	1	Surface	Nickel	mg/kg	9.19E+01	2.93E-06	4.22E-05	1.89E-09	
222	1	Surface	PCB, Total	mg/kg	1.40E+00	4.46E-08	2.25E-06	4.89E-08	
222	1	Surface	Total PAH	mg/kg	1.77E-01	5.64E-09	2.64E-07	2.70E-10	
222	1	Surface	Uranium	mg/kg	2.80E+01	8.91E-07	1.60E-05	5.75E-10	
222	1	Surface	Uranium-234	pCi/g	1.04E+01	3.64E+02		2.35E-01	9.97E+00
222	1	Surface	Uranium-235	pCi/g	7.10E-01	2.49E+01		1.60E-02	6.81E-01
222	1	Surface	Uranium-238	pCi/g	1.96E+01	6.86E+02		4.43E-01	1.88E+01
224	1	Surface	Chromium	mg/kg	4.49E+01	1.43E-06	2.57E-05	9.23E-10	
224	1	Surface	PCB, Total	mg/kg	4.75E+02	1.51E-05	7.63E-04	1.66E-05	
224	1	Surface	Total PAH	mg/kg	4.53E+01	1.44E-06	6.75E-05	6.91E-08	
224	1	Surface	Uranium	mg/kg	4.15E+01	1.32E-06	2.38E-05	8.53E-10	
224	1	Surface	Uranium-235	pCi/g	2.50E-01	8.75E+00		5.65E-03	2.40E-01
224	1	Surface	Uranium-238	pCi/g	2.64E+01	9.24E+02		5.96E-01	2.53E+01
225	1	Surface	Chromium	mg/kg	2.55E+01	8.12E-07	1.46E-05	5.24E-10	
225	1	Surface	Total PAH	mg/kg	7.79E-02	2.48E-09	1.16E-07	1.19E-10	
225	1	Surface	Uranium-238	pCi/g	2.04E+00	7.14E+01		4.61E-02	1.96E+00
226	1	Surface	Americium-241	pCi/g	1.62E+00	5.68E+01		3.66E-02	1.56E+00
226	1	Surface	Antimony	mg/kg	6.60E-01	2.10E-08	3.78E-07	1.36E-11	
226	1	Surface	Cesium-137	pCi/g	2.65E+00	9.28E+01		5.98E-02	2.54E+00
226	1	Surface	Chromium	mg/kg	4.25E+01	1.35E-06	2.44E-05	8.74E-10	
226	1	Surface	Cobalt-60	pCi/g	3.14E-03	1.10E-01		7.09E-05	3.01E-03
226	1	Surface	Manganese	mg/kg	6.30E+02	2.01E-05	2.89E-04	1.29E-08	
226	1	Surface	Mercury	mg/kg	9.74E+00	3.10E-07	5.59E-06	6.01E-06	
226	1	Surface	Neptunium-237	pCi/g	1.60E+02	5.60E+03		3.62E+00	1.54E+02
226	1	Surface	Nickel	mg/kg	2.10E+02	6.68E-06	9.62E-05	4.31E-09	
226	1	Surface	PCB, Total	mg/kg	1.49E+00	4.75E-08	2.39E-06	5.20E-08	
226	1	Surface	Plutonium-238	pCi/g	2.13E+00	7.46E+01		4.81E-02	2.04E+00
226	1	Surface	Plutonium-239/240	pCi/g	6.52E+00	2.28E+02		1.47E-01	6.25E+00
226	1	Surface	Technetium-99	pCi/g	4.96E+01	1.74E+03		1.12E+00	4.76E+01
226	1	Surface	Thorium-230	pCi/g	4.77E+01	1.67E+03		1.08E+00	4.58E+01
226	1	Surface	Total PAH	mg/kg	9.19E-02	2.93E-09	1.37E-07	1.40E-10	
226	1	Surface	Uranium	mg/kg	4.01E+02	1.28E-05	2.30E-04	8.24E-09	
226	1	Surface	Uranium-234	pCi/g	2.29E+01	8.03E+02		5.18E-01	2.20E+01
226	1	Surface	Uranium-235	pCi/g	1.10E+00	3.86E+01		2.49E-02	1.06E+00
226	1	Surface	Uranium-238	pCi/g	2.40E+01	8.40E+02		5.42E-01	2.30E+01
227	1	Surface	Beryllium	mg/kg	5.52E-01	1.76E-08	4.43E-08	1.13E-11	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
227	1	Surface	Cesium-137	pCi/g	1.90E-01	6.65E+00		4.29E-03	1.82E-01
227	1	Surface	Chromium	mg/kg	4.71E+01	1.50E-06	2.70E-05	9.69E-10	
227	1	Surface	Cobalt-60	pCi/g	1.53E-02	5.36E-01		3.45E-04	1.47E-02
227	1	Surface	Neptunium-237	pCi/g	9.05E-01	3.17E+01		2.04E-02	8.68E-01
227	1	Surface	Nickel	mg/kg	2.03E+02	6.47E-06	9.31E-05	4.17E-09	
227	1	Surface	PCB, Total	mg/kg	4.14E+00	1.32E-07	6.65E-06	1.45E-07	
227	1	Surface	Technetium-99	pCi/g	4.77E+01	1.67E+03		1.08E+00	4.58E+01
227	1	Surface	Total PAH	mg/kg	3.38E-01	1.08E-08	5.04E-07	5.15E-10	
227	1	Surface	Uranium	mg/kg	1.02E+02	3.24E-06	5.83E-05	2.09E-09	
227	1	Surface	Uranium-234	pCi/g	1.54E+01	5.40E+02		3.49E-01	1.48E+01
227	1	Surface	Uranium-235	pCi/g	1.49E+00	5.22E+01		3.36E-02	1.43E+00
227	1	Surface	Uranium-238	pCi/g	4.63E+01	1.62E+03		1.05E+00	4.44E+01
227	2	Surface	Beryllium	mg/kg	5.32E-01	1.69E-08	4.27E-08	1.09E-11	
227	2	Surface	Chromium	mg/kg	5.63E+01	1.79E-06	3.23E-05	1.16E-09	
227	2	Surface	Cobalt	mg/kg	8.99E+00	2.86E-07	5.15E-06	1.85E-10	
227	2	Surface	Cobalt-60	pCi/g	1.37E-02	4.80E-01		3.09E-04	1.31E-02
227	2	Surface	Mercury	mg/kg	8.41E+00	2.68E-07	4.82E-06	5.19E-06	
227	2	Surface	Nickel	mg/kg	1.25E+02	3.98E-06	5.73E-05	2.57E-09	
227	2	Surface	PCB, Total	mg/kg	5.82E+00	1.85E-07	9.35E-06	2.03E-07	
227	2	Surface	Total PAH	mg/kg	1.16E-01	3.69E-09	1.72E-07	1.76E-10	
227	2	Surface	Uranium	mg/kg	1.51E+01	4.79E-07	8.63E-06	3.09E-10	
227	2	Surface	Uranium-238	pCi/g	1.57E+00	5.51E+01		3.55E-02	1.51E+00
228	1	Surface	Antimony	mg/kg	6.30E-01	2.01E-08	3.61E-07	1.29E-11	
228	1	Surface	Cadmium	mg/kg	3.90E+00	1.24E-07	4.47E-08	8.02E-11	
228	1	Surface	Chromium	mg/kg	1.89E+02	6.02E-06	1.08E-04	3.88E-09	
228	1	Surface	Mercury	mg/kg	9.37E+00	2.99E-07	5.37E-06	5.78E-06	
228	1	Surface	Neptunium-237	pCi/g	8.00E-01	2.80E+01		1.81E-02	7.67E-01
228	1	Surface	Nickel	mg/kg	7.92E+01	2.52E-06	3.63E-05	1.63E-09	
228	1	Surface	Silver	mg/kg	1.16E+01	3.71E-07	5.34E-06	2.39E-10	
228	1	Surface	Total PAH	mg/kg	6.69E-02	2.13E-09	9.97E-08	1.02E-10	
228	1	Surface	Uranium	mg/kg	1.51E+01	4.82E-07	8.68E-06	3.11E-10	
228	1	Surface	Uranium-235	pCi/g	1.78E-01	6.23E+00		4.02E-03	1.71E-01
228	1	Surface	Uranium-238	pCi/g	3.77E+00	1.32E+02		8.51E-02	3.62E+00
229	1	Surface	Nickel	mg/kg	9.14E+01	2.91E-06	4.19E-05	1.88E-09	
229	1	Surface	Total PAH	mg/kg	1.57E-01	4.99E-09	2.34E-07	2.39E-10	
229	1	Surface	Uranium	mg/kg	1.56E+02	4.96E-06	8.93E-05	3.20E-09	
229	1	Surface	Uranium-238	pCi/g	2.86E+00	1.00E+02		6.46E-02	2.74E+00
229	2	Surface	Arsenic	mg/kg	2.12E+01	6.75E-07	7.29E-06	4.36E-10	
229	2	Surface	Beryllium	mg/kg	7.90E-01	2.52E-08	6.34E-08	1.62E-11	
229	2	Surface	Chromium	mg/kg	2.91E+01	9.28E-07	1.67E-05	5.99E-10	
229	2	Surface	Neptunium-237	pCi/g	2.87E-01	1.00E+01		6.48E-03	2.75E-01
229	2	Surface	Nickel	mg/kg	9.93E+01	3.16E-06	4.55E-05	2.04E-09	
229	2	Surface	Total PAH	mg/kg	1.69E+00	5.40E-08	2.53E-06	2.59E-09	
229	2	Surface	Uranium	mg/kg	7.45E+01	2.37E-06	4.27E-05	1.53E-09	
229	2	Surface	Uranium-234	pCi/g	1.22E+01	4.27E+02		2.75E-01	1.17E+01
229	2	Surface	Uranium-235	pCi/g	8.40E-01	2.94E+01		1.90E-02	8.05E-01
229	2	Surface	Uranium-238	pCi/g	2.49E+01	8.72E+02		5.62E-01	2.39E+01
483	1	Surface	Nickel	mg/kg	1.17E+02	3.71E-06	5.35E-05	2.40E-09	
483	1	Surface	Silver	mg/kg	1.12E+01	3.56E-07	5.13E-06	2.30E-10	
483	1	Surface	Total PAH	mg/kg	2.39E-02	7.61E-10	3.56E-08	3.65E-11	
486	1	Surface	Cesium-137	pCi/g					

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
487	1	Surface	Cesium-137	pCi/g					
488	1	Surface	Cesium-137	pCi/g	5.20E-01	1.82E+01		1.17E-02	4.99E-01
488	1	Surface	PCB, Total	mg/kg	1.03E+01	3.28E-07	1.65E-05	3.59E-07	
488	1	Surface	Total PAH	mg/kg	2.50E-01	7.96E-09	3.72E-07	3.81E-10	
488	1	Surface	Uranium	mg/kg	1.48E+01	4.71E-07	8.49E-06	3.04E-10	
488	1	Surface	Uranium-235	pCi/g	1.49E-01	5.22E+00		3.36E-03	1.43E-01
488	1	Surface	Uranium-238	pCi/g	4.54E+00	1.59E+02		1.03E-01	4.35E+00
489	1	Surface	Chromium	mg/kg	4.16E+01	1.33E-06	2.39E-05	8.56E-10	
489	1	Surface	Nickel	mg/kg	7.88E+01	2.51E-06	3.62E-05	1.62E-09	
489	1	Surface	Total PAH	mg/kg	8.22E-02	2.62E-09	1.23E-07	1.25E-10	
489	1	Surface	Uranium-238	pCi/g	1.47E+00	5.15E+01		3.32E-02	1.41E+00
492	1	Surface	Arsenic	mg/kg	1.47E+01	4.68E-07	5.06E-06	3.02E-10	
492	1	Surface	Beryllium	mg/kg	1.04E+01	3.31E-07	8.35E-07	2.14E-10	
492	1	Surface	Cadmium	mg/kg	3.14E+00	1.00E-07	3.60E-08	6.45E-11	
492	1	Surface	Chromium	mg/kg	1.04E+03	3.31E-05	5.96E-04	2.14E-08	
492	1	Surface	Cobalt-60	pCi/g	9.63E-03	3.37E-01		2.17E-04	9.23E-03
492	1	Surface	Neptunium-237	pCi/g	2.09E-01	7.32E+00		4.72E-03	2.00E-01
492	1	Surface	PCB, Total	mg/kg	4.41E+01	1.40E-06	7.08E-05	1.54E-06	
492	1	Surface	Uranium	mg/kg	1.77E+03	5.64E-05	1.01E-03	3.64E-08	
492	1	Surface	Uranium-234	pCi/g	5.39E+01	1.89E+03		1.22E+00	5.17E+01
492	1	Surface	Uranium-235	pCi/g	5.72E+00	2.00E+02		1.29E-01	5.48E+00
492	1	Surface	Uranium-238	pCi/g	3.83E+02	1.34E+04		8.65E+00	3.67E+02
492	1	Surface	Vanadium	mg/kg	4.32E+01	1.38E-06	1.29E-05	8.88E-10	
493	1	Surface	Aluminum	mg/kg	1.44E+04	4.59E-04	8.26E-03	2.96E-07	
493	1	Surface	Barium	mg/kg	4.04E+02	1.29E-05	2.32E-04	8.30E-09	
493	1	Surface	Beryllium	mg/kg	9.91E-01	3.16E-08	7.96E-08	2.04E-11	
493	1	Surface	Chromium	mg/kg	6.61E+01	2.11E-06	3.79E-05	1.36E-09	
493	1	Surface	Cobalt	mg/kg	3.79E+01	1.21E-06	2.17E-05	7.79E-10	
493	1	Surface	Cobalt-60	pCi/g	1.36E-02	4.76E-01		3.07E-04	1.30E-02
493	1	Surface	Manganese	mg/kg	3.55E+03	1.13E-04	1.63E-03	7.30E-08	
493	1	Surface	Mercury	mg/kg	2.60E-01	8.28E-09	1.49E-07	1.60E-07	
493	1	Surface	Neptunium-237	pCi/g	1.22E-01	4.27E+00		2.75E-03	1.17E-01
493	1	Surface	Nickel	mg/kg	2.13E+02	6.79E-06	9.77E-05	4.38E-09	
493	1	Surface	PCB, Total	mg/kg	2.60E-01	8.28E-09	4.17E-07	9.07E-09	
493	1	Surface	Total PAH	mg/kg	5.00E-01	1.59E-08	7.45E-07	7.63E-10	
493	1	Surface	Uranium-235	pCi/g	1.65E-01	5.78E+00		3.73E-03	1.58E-01
493	1	Surface	Uranium-238	pCi/g	5.50E+00	1.93E+02		1.24E-01	5.27E+00
493	1	Surface	Vanadium	mg/kg	4.05E+01	1.29E-06	1.21E-05	8.32E-10	
517	1	Surface	Beryllium	mg/kg	7.39E-01	2.35E-08	5.93E-08	1.52E-11	
517	1	Surface	Chromium	mg/kg	4.91E+01	1.56E-06	2.82E-05	1.01E-09	
517	1	Surface	Cobalt-60	pCi/g	6.39E-03	2.24E-01		1.44E-04	6.13E-03
517	1	Surface	Neptunium-237	pCi/g	1.07E+00	3.75E+01		2.42E-02	1.03E+00
517	1	Surface	Nickel	mg/kg	1.72E+02	5.48E-06	7.89E-05	3.54E-09	
517	1	Surface	PCB, Total	mg/kg	5.00E-01	1.59E-08	8.03E-07	1.75E-08	
517	1	Surface	Uranium-235	pCi/g	1.60E-01	5.60E+00		3.61E-03	1.53E-01
517	1	Surface	Uranium-238	pCi/g	3.89E+00	1.36E+02		8.78E-02	3.73E+00
518	1	Surface	Carbazole	mg/kg	1.17E+01	3.73E-07	1.34E-05	1.12E-07	
518	1	Surface	Cobalt	mg/kg	6.80E+00	2.17E-07	3.90E-06	1.40E-10	
518	1	Surface	Nickel	mg/kg	1.29E+01	4.10E-07	5.90E-06	2.64E-10	
518	1	Surface	PCB, Total	mg/kg	6.30E-01	2.01E-08	1.01E-06	2.20E-08	
518	1	Surface	Pyrene	mg/kg	3.94E+01	1.26E-06	5.88E-05	5.35E-07	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
518	1	Surface	Total PAH	mg/kg	4.64E+00	1.48E-07	6.91E-06	7.07E-09	
518	1	Surface	Uranium	mg/kg	2.17E+02	6.91E-06	1.24E-04	4.46E-09	
518	1	Surface	Uranium-235	pCi/g	6.74E-02	2.36E+00		1.52E-03	6.46E-02
518	1	Surface	Uranium-238	pCi/g	1.51E+00	5.30E+01		3.42E-02	1.45E+00
520	1	Surface	Cesium-137	pCi/g	9.62E-01	3.37E+01		2.17E-02	9.22E-01
520	1	Surface	Chromium	mg/kg	3.17E+01	1.01E-06	1.82E-05	6.52E-10	
520	1	Surface	Iron	mg/kg	1.56E+04	4.97E-04	8.94E-03	3.20E-07	
520	1	Surface	Mercury	mg/kg	1.07E+01	3.40E-07	6.12E-06	6.59E-06	
520	1	Surface	Neptunium-237	pCi/g	6.56E-01	2.30E+01		1.48E-02	6.29E-01
520	1	Surface	Nickel	mg/kg	2.60E+02	8.30E-06	1.19E-04	5.35E-09	
520	1	Surface	Silver	mg/kg	1.30E+01	4.13E-07	5.95E-06	2.67E-10	
520	1	Surface	Thorium-230	pCi/g	1.13E+01	3.97E+02		2.56E-01	1.09E+01
520	1	Surface	Total PAH	mg/kg	3.18E-02	1.01E-09	4.75E-08	4.86E-11	
520	1	Surface	Uranium	mg/kg	2.29E+01	7.31E-07	1.32E-05	4.71E-10	
520	1	Surface	Uranium-235	pCi/g	1.26E-01	4.41E+00		2.85E-03	1.21E-01
520	1	Surface	Uranium-238	pCi/g	3.93E+00	1.38E+02		8.87E-02	3.77E+00
520	2	Surface	Beryllium	mg/kg	5.79E-01	1.84E-08	4.65E-08	1.19E-11	
520	2	Surface	Chromium	mg/kg	6.67E+01	2.12E-06	3.82E-05	1.37E-09	
520	2	Surface	Manganese	mg/kg	5.89E+02	1.88E-05	2.70E-04	1.21E-08	
520	2	Surface	Mercury	mg/kg	1.19E+01	3.78E-07	6.81E-06	7.33E-06	
520	2	Surface	Neptunium-237	pCi/g	7.48E-02	2.62E+00		1.69E-03	7.17E-02
520	2	Surface	Nickel	mg/kg	3.11E+02	9.89E-06	1.42E-04	6.38E-09	
520	2	Surface	Total PAH	mg/kg	3.17E-01	1.01E-08	4.73E-07	4.84E-10	
520	2	Surface	Uranium	mg/kg	3.96E+01	1.26E-06	2.27E-05	8.13E-10	
520	2	Surface	Uranium-238	pCi/g	1.78E+00	6.22E+01		4.01E-02	1.70E+00
520	3	Surface	Chromium	mg/kg	3.97E+01	1.26E-06	2.28E-05	8.16E-10	
520	3	Surface	Copper	mg/kg	1.19E+02	3.79E-06	6.82E-05	2.45E-09	
520	3	Surface	Nickel	mg/kg	2.65E+02	8.44E-06	1.21E-04	5.44E-09	
520	3	Surface	Silver	mg/kg	1.27E+01	4.04E-07	5.81E-06	2.60E-10	
520	3	Surface	Total PAH	mg/kg	1.18E-01	3.76E-09	1.76E-07	1.80E-10	
520	3	Surface	Uranium	mg/kg	1.92E+01	6.13E-07	1.10E-05	3.95E-10	
520	3	Surface	Uranium-238	pCi/g	1.57E+00	5.50E+01		3.55E-02	1.51E+00
520	4	Surface	Chromium	mg/kg	3.82E+01	1.22E-06	2.19E-05	7.86E-10	
520	4	Surface	Copper	mg/kg	1.11E+02	3.52E-06	6.34E-05	2.27E-09	
520	4	Surface	Mercury	mg/kg	9.69E+00	3.09E-07	5.56E-06	5.97E-06	
520	4	Surface	Neptunium-237	pCi/g	7.40E-01	2.59E+01		1.67E-02	7.10E-01
520	4	Surface	Nickel	mg/kg	2.82E+02	8.98E-06	1.29E-04	5.79E-09	
520	4	Surface	Silver	mg/kg	1.04E+01	3.33E-07	4.79E-06	2.15E-10	
520	4	Surface	Total PAH	mg/kg	5.52E-01	1.76E-08	8.24E-07	8.43E-10	
520	4	Surface	Uranium	mg/kg	2.40E+01	7.65E-07	1.38E-05	4.94E-10	
520	4	Surface	Uranium-235	pCi/g	2.42E-01	8.47E+00		5.46E-03	2.32E-01
520	4	Surface	Uranium-238	pCi/g	6.26E+00	2.19E+02		1.41E-01	6.00E+00
520	5	Surface	Antimony	mg/kg	9.60E-01	3.06E-08	5.50E-07	1.97E-11	
520	5	Surface	Chromium	mg/kg	3.68E+01	1.17E-06	2.11E-05	7.57E-10	
520	5	Surface	Neptunium-237	pCi/g	1.55E-01	5.43E+00		3.50E-03	1.49E-01
520	5	Surface	Nickel	mg/kg	1.47E+02	4.68E-06	6.74E-05	3.02E-09	
520	5	Surface	Total PAH	mg/kg	3.87E-01	1.23E-08	5.77E-07	5.91E-10	
520	5	Surface	Uranium-238	pCi/g	1.45E+00	5.08E+01		3.27E-02	1.39E+00
531	1	Surface	Antimony	mg/kg	1.00E+00	3.19E-08	5.73E-07	2.06E-11	
531	1	Surface	Arsenic	mg/kg	4.68E+01	1.49E-06	1.61E-05	9.62E-10	
531	1	Surface	Cadmium	mg/kg	3.10E+00	9.88E-08	3.56E-08	6.37E-11	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
531	1	Surface	Chromium	mg/kg	5.05E+01	1.61E-06	2.89E-05	1.04E-09	
531	1	Surface	Iron	mg/kg	5.68E+04	1.81E-03	3.26E-02	1.17E-06	
531	1	Surface	Nickel	mg/kg	1.62E+02	5.17E-06	7.44E-05	3.33E-09	
531	1	Surface	Total PAH	mg/kg	5.34E-02	1.70E-09	7.96E-08	8.14E-11	
531	1	Surface	Uranium	mg/kg	2.41E+01	7.67E-07	1.38E-05	4.95E-10	
531	1	Surface	Uranium-235	pCi/g	1.38E-01	4.83E+00		3.12E-03	1.32E-01
531	1	Surface	Uranium-238	pCi/g	3.48E+00	1.22E+02		7.86E-02	3.34E+00
531	1	Surface	Zinc	mg/kg	2.45E+03	7.81E-05	1.41E-03	5.04E-08	
541	1	Surface	Aluminum	mg/kg	1.43E+04	4.55E-04	8.19E-03	2.94E-07	
541	1	Surface	Americium-241	pCi/g	7.53E+00	2.64E+02		1.70E-01	7.22E+00
541	1	Surface	Barium	mg/kg	1.28E+02	4.08E-06	7.34E-05	2.63E-09	
541	1	Surface	Beryllium	mg/kg	6.98E-01	2.22E-08	5.60E-08	1.43E-11	
541	1	Surface	Cadmium	mg/kg	1.68E+00	5.36E-08	1.93E-08	3.46E-11	
541	1	Surface	Cesium-137	pCi/g	9.58E-01	3.35E+01		2.16E-02	9.19E-01
541	1	Surface	Chromium	mg/kg	8.24E+02	2.63E-05	4.73E-04	1.69E-08	
541	1	Surface	Cobalt-60	pCi/g	1.01E-02	3.54E-01		2.28E-04	9.68E-03
541	1	Surface	Iron	mg/kg	1.60E+04	5.09E-04	9.16E-03	3.28E-07	
541	1	Surface	Mercury	mg/kg	9.81E-02	3.13E-09	5.63E-08	6.05E-08	
541	1	Surface	Naphthalene	mg/kg	6.55E-01	2.09E-08	1.88E-06	4.52E-07	
541	1	Surface	Neptunium-237	pCi/g	5.52E-02	1.93E+00		1.25E-03	5.29E-02
541	1	Surface	Nickel	mg/kg	1.52E+01	4.86E-07	6.99E-06	3.13E-10	
541	1	Surface	PCB, Total	mg/kg	6.06E+01	1.93E-06	9.73E-05	2.12E-06	
541	1	Surface	Total PAH	mg/kg	2.33E+00	7.42E-08	3.47E-06	3.55E-09	
541	1	Surface	Uranium	mg/kg	6.38E+03	2.03E-04	3.66E-03	1.31E-07	
541	1	Surface	Uranium-234	pCi/g	1.43E+02	5.00E+03		3.23E+00	1.37E+02
541	1	Surface	Uranium-235	pCi/g	1.76E+01	6.15E+02		3.97E-01	1.68E+01
541	1	Surface	Uranium-238	pCi/g	1.00E+03	3.50E+04		2.26E+01	9.60E+02
541	1	Surface	Vanadium	mg/kg	3.04E+01	9.70E-07	9.08E-06	6.26E-10	
561	1	Surface	Antimony	mg/kg	9.36E-01	2.98E-08	5.37E-07	1.92E-11	
561	1	Surface	Arsenic	mg/kg	1.66E+01	5.27E-07	5.69E-06	3.40E-10	
561	1	Surface	Barium	mg/kg	1.40E+02	4.47E-06	8.04E-05	2.88E-09	
561	1	Surface	Beryllium	mg/kg	6.85E-01	2.18E-08	5.50E-08	1.41E-11	
561	1	Surface	Chromium	mg/kg	8.58E+01	2.73E-06	4.92E-05	1.76E-09	
561	1	Surface	Cobalt	mg/kg	1.07E+01	3.41E-07	6.13E-06	2.20E-10	
561	1	Surface	Cobalt-60	pCi/g	7.06E-02	2.47E+00		1.59E-03	6.77E-02
561	1	Surface	Iron	mg/kg	2.05E+04	6.52E-04	1.17E-02	4.21E-07	
561	1	Surface	Manganese	mg/kg	1.61E+03	5.13E-05	7.38E-04	3.31E-08	
561	1	Surface	Neptunium-237	pCi/g	2.71E-02	9.49E-01		6.12E-04	2.60E-02
561	1	Surface	PCB, Total	mg/kg	1.04E+00	3.32E-08	1.67E-06	3.64E-08	
561	1	Surface	Thallium	mg/kg	3.33E-01	1.06E-08	1.91E-07	6.84E-12	
561	1	Surface	Total PAH	mg/kg	1.65E-01	5.26E-09	2.46E-07	2.52E-10	
561	1	Surface	Uranium	mg/kg	2.65E+02	8.44E-06	1.52E-04	5.44E-09	
561	1	Surface	Uranium-234	pCi/g	7.84E+00	2.74E+02		1.77E-01	7.52E+00
561	1	Surface	Uranium-235	pCi/g	1.37E+00	4.78E+01		3.08E-02	1.31E+00
561	1	Surface	Uranium-238	pCi/g	1.07E+02	3.73E+03		2.40E+00	1.02E+02
561	1	Surface	Vanadium	mg/kg	3.76E+01	1.20E-06	1.12E-05	7.74E-10	
561	2	Surface	Antimony	mg/kg	5.33E+00	1.70E-07	3.06E-06	1.10E-10	
561	2	Surface	Arsenic	mg/kg	1.30E+01	4.14E-07	4.48E-06	2.67E-10	
561	2	Surface	Beryllium	mg/kg	6.34E-01	2.02E-08	5.09E-08	1.30E-11	
561	2	Surface	Cadmium	mg/kg	4.13E-01	1.32E-08	4.74E-09	8.49E-12	
561	2	Surface	Cesium-137	pCi/g	4.09E-01	1.43E+01		9.24E-03	3.92E-01

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
561	2	Surface	Chromium	mg/kg	2.88E+02	9.18E-06	1.65E-04	5.92E-09	
561	2	Surface	Cobalt	mg/kg	1.14E+01	3.63E-07	6.54E-06	2.34E-10	
561	2	Surface	Cobalt-60	pCi/g	2.76E-02	9.66E-01		6.23E-04	2.65E-02
561	2	Surface	Manganese	mg/kg	1.12E+03	3.55E-05	5.12E-04	2.29E-08	
561	2	Surface	Neptunium-237	pCi/g	4.71E-02	1.65E+00		1.06E-03	4.52E-02
561	2	Surface	PCB, Total	mg/kg	1.64E+01	5.21E-07	2.63E-05	5.71E-07	
561	2	Surface	Thallium	mg/kg	4.09E-01	1.30E-08	2.35E-07	8.41E-12	
561	2	Surface	Total PAH	mg/kg	4.43E-01	1.41E-08	6.60E-07	6.76E-10	
561	2	Surface	Uranium	mg/kg	1.38E+03	4.41E-05	7.93E-04	2.84E-08	
561	2	Surface	Uranium-234	pCi/g	4.06E+01	1.42E+03		9.17E-01	3.90E+01
561	2	Surface	Uranium-235	pCi/g	7.09E+00	2.48E+02		1.60E-01	6.80E+00
561	2	Surface	Uranium-238	pCi/g	4.00E+02	1.40E+04		9.04E+00	3.84E+02
561	2	Surface	Vanadium	mg/kg	3.46E+01	1.10E-06	1.03E-05	7.10E-10	
562	1	Surface	Uranium	mg/kg	8.73E+01	2.78E-06	5.01E-05	1.79E-09	
562	1	Surface	Uranium-238	pCi/g	2.73E+00	9.56E+01		6.16E-02	2.62E+00
562	2	Surface	PCB, Total	mg/kg	1.58E+00	5.03E-08	2.54E-06	5.51E-08	
562	2	Surface	Uranium-234	pCi/g	5.34E+01	1.87E+03		1.21E+00	5.12E+01
562	2	Surface	Uranium-235	pCi/g	8.96E+00	3.14E+02		2.02E-01	8.59E+00
562	2	Surface	Uranium-238	pCi/g	5.81E+02	2.03E+04		1.31E+01	5.57E+02
562	3	Surface	Chromium	mg/kg	3.82E+01	1.22E-06	2.19E-05	7.84E-10	
562	3	Surface	PCB, Total	mg/kg	2.40E-01	7.65E-09	3.85E-07	8.38E-09	
562	3	Surface	Total PAH	mg/kg	2.20E-01	7.01E-09	3.28E-07	3.36E-10	
562	3	Surface	Uranium	mg/kg	5.89E+01	1.88E-06	3.38E-05	1.21E-09	
562	3	Surface	Uranium-235	pCi/g	1.63E-01	5.71E+00		3.68E-03	1.56E-01
562	3	Surface	Uranium-238	pCi/g	1.09E+01	3.82E+02		2.46E-01	1.05E+01
562	4	Surface	Chromium	mg/kg	4.67E+01	1.49E-06	2.68E-05	9.59E-10	
562	4	Surface	Uranium	mg/kg	2.10E+01	6.69E-07	1.20E-05	4.31E-10	
562	4	Surface	Uranium-238	pCi/g	2.24E+00	7.84E+01		5.06E-02	2.15E+00
562	5	Surface	Chromium	mg/kg	1.53E+02	4.88E-06	8.78E-05	3.15E-09	
562	5	Surface	PCB, Total	mg/kg	9.50E-01	3.03E-08	1.53E-06	3.32E-08	
562	5	Surface	Total PAH	mg/kg	7.05E-02	2.25E-09	1.05E-07	1.08E-10	
562	5	Surface	Uranium	mg/kg	2.08E+02	6.63E-06	1.19E-04	4.28E-09	
562	5	Surface	Uranium-234	pCi/g	8.57E+00	3.00E+02		1.94E-01	8.22E+00
562	5	Surface	Uranium-235	pCi/g	9.50E-01	3.33E+01		2.15E-02	9.11E-01
562	5	Surface	Uranium-238	pCi/g	6.24E+01	2.18E+03		1.41E+00	5.98E+01
563	1	Surface	Cadmium	mg/kg	8.96E-01	2.85E-08	1.03E-08	1.84E-11	
563	1	Surface	Chromium	mg/kg	2.85E+02	9.08E-06	1.63E-04	5.86E-09	
563	1	Surface	PCB, Total	mg/kg	7.40E-01	2.36E-08	1.19E-06	2.58E-08	
563	1	Surface	Uranium	mg/kg	1.51E+01	4.81E-07	8.65E-06	3.10E-10	
563	1	Surface	Uranium-238	pCi/g	2.76E+00	9.66E+01		6.23E-02	2.65E+00
563	2	Surface	Cesium-137	pCi/g	6.47E-01	2.26E+01		1.46E-02	6.20E-01
563	2	Surface	Uranium-238	pCi/g	1.49E+00	5.22E+01		3.36E-02	1.43E+00
564	1	Surface	Arsenic	mg/kg	4.30E+01	1.37E-06	1.48E-05	8.84E-10	
564	1	Surface	Beryllium	mg/kg	2.12E+00	6.75E-08	1.70E-07	4.36E-11	
564	1	Surface	Cadmium	mg/kg	1.96E+00	6.24E-08	2.25E-08	4.03E-11	
564	1	Surface	Cesium-137	pCi/g	6.20E-01	2.17E+01		1.40E-02	5.95E-01
564	1	Surface	Chromium	mg/kg	7.49E+01	2.39E-06	4.30E-05	1.54E-09	
564	1	Surface	Iron	mg/kg	3.66E+04	1.17E-03	2.10E-02	7.52E-07	
564	1	Surface	Mercury	mg/kg	2.30E-01	7.33E-09	1.32E-07	1.42E-07	
564	1	Surface	Nickel	mg/kg	2.24E+01	7.14E-07	1.03E-05	4.60E-10	
564	1	Surface	PCB, Total	mg/kg	1.93E+00	6.15E-08	3.10E-06	6.74E-08	

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.20. Cancerous CDIs for the Future Teen Recreational User Exposed to Surface Soil (Continued)

SWMU	EU	Depth	COPC	Units	EPC	Ingestion	Dermal	Inhalation	External Exposure
564	1	Surface	Thallium	mg/kg	2.36E+00	7.52E-08	1.35E-06	4.85E-11	
564	1	Surface	Thorium-230	pCi/g	5.01E+00	1.75E+02		1.13E-01	4.80E+00
564	1	Surface	Uranium	mg/kg	5.83E+01	1.86E-06	3.34E-05	1.20E-09	
564	1	Surface	Uranium-234	pCi/g	6.93E+00	2.43E+02		1.56E-01	6.65E+00
564	1	Surface	Uranium-235	pCi/g	3.87E-01	1.35E+01		8.74E-03	3.71E-01
564	1	Surface	Uranium-238	pCi/g	8.33E+00	2.92E+02		1.88E-01	7.99E+00
564	1	Surface	Vanadium	mg/kg	8.06E+01	2.57E-06	2.40E-05	1.66E-09	
567	3	Surface	Chromium	mg/kg	3.79E+01	1.21E-06	2.17E-05	7.79E-10	
567	4	Surface	Aluminum	mg/kg	1.25E+04	3.99E-04	7.18E-03	2.57E-07	
567	4	Surface	Chromium	mg/kg	1.63E+01	5.19E-07	9.35E-06	3.35E-10	
567	4	Surface	Uranium-238	pCi/g	1.05E+00	3.67E+01		2.37E-02	1.01E+00

CDI = chronic daily intake
SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.21. HIs for the Current Industrial Worker

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
1	1	Surface	Beryllium	3.89E+00	0.00	0.01	0.00	0.01	95.58%
1	1	Surface	Cadmium	1.10E+00	0.00	0.00	0.00	0.00	2.83%
1	1	Surface	Chromium	1.28E+01	0.00	0.00		0.00	1.60%
1	1	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
1	1	Surface	**Percent**		**1.58%**	**98.07%**	**0.35%**		
1	2	Surface	Beryllium	8.23E+00	0.00	0.01	0.00	0.01	0.78%
1	2	Surface	Cadmium	6.46E+00	0.00	0.00	0.00	0.00	0.06%
1	2	Surface	Chromium	2.01E+02	0.00	0.00		0.00	0.10%
1	2	Surface	Copper	1.81E+02	0.00	0.00		0.00	0.05%
1	2	Surface	Mercury	5.94E+00	0.00	0.04		0.04	2.69%
1	2	Surface	Nickel	5.75E+01	0.00	0.01	0.00	0.01	0.55%
1	2	Surface	Silver	3.31E+01	0.00	0.02		0.02	1.26%
1	2	Surface	Thallium	3.70E-01	0.00	0.00		0.00	0.05%
1	2	Surface	Vanadium	3.49E+01	0.01	1.28	0.00	1.30	94.45%
1	2	Surface	**Totals**		**0.01**	**1.36**	**0.00**	**1.4**	
1	2	Surface	**Percent**		**1.09%**	**98.90%**	**0.01%**		
1	3	Surface	Chromium	1.45E+01	0.00	0.00		0.00	100.00%
1	3	Surface	**Totals**		**0.00**	**0.00**		**0.0**	
1	3	Surface	**Percent**		**0.28%**	**99.72%**			
1	4	Surface	Beryllium	7.25E-01	0.00	0.00	0.00	0.00	12.29%
1	4	Surface	Chromium	9.30E+01	0.00	0.00		0.00	8.01%
1	4	Surface	Nickel	4.69E+01	0.00	0.01	0.00	0.01	79.70%
1	4	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
1	4	Surface	**Percent**		**0.99%**	**98.57%**	**0.45%**		
1	5	Surface	Beryllium	8.30E+00	0.00	0.01	0.00	0.01	66.36%
1	5	Surface	Cadmium	1.20E+00	0.00	0.00	0.00	0.00	1.00%
1	5	Surface	Nickel	4.07E+01	0.00	0.01	0.00	0.01	32.63%
1	5	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
1	5	Surface	**Percent**		**1.24%**	**98.39%**	**0.37%**		
12	1	Surface	Aluminum	8.19E+03	0.00	0.00	0.00	0.00	0.12%
12	1	Surface	Antimony	5.04E-01	0.00	0.00		0.00	0.10%
12	1	Surface	Arsenic	1.34E+01	0.00	0.00	0.00	0.00	0.41%
12	1	Surface	Barium	1.04E+02	0.00	0.00	0.00	0.00	0.08%
12	1	Surface	Beryllium	6.72E+00	0.00	0.01	0.00	0.01	0.75%
12	1	Surface	Cadmium	1.02E+00	0.00	0.00	0.00	0.00	0.01%
12	1	Surface	Chromium	6.33E+01	0.00	0.00		0.00	0.04%
12	1	Surface	Cobalt	9.16E+00	0.00	0.00	0.00	0.00	0.42%
12	1	Surface	Iron	3.01E+04	0.00	0.01		0.01	0.57%
12	1	Surface	Manganese	1.01E+03	0.00	0.00	0.00	0.00	0.19%
12	1	Surface	Mercury	8.80E+00	0.00	0.05		0.05	4.70%
12	1	Surface	Molybdenum	1.74E+01	0.00	0.00		0.00	0.05%
12	1	Surface	Nickel	7.74E+01	0.00	0.01	0.00	0.01	0.87%
12	1	Surface	Silver	1.10E+01	0.00	0.01		0.01	0.49%
12	1	Surface	Thallium	1.03E+00	0.00	0.00		0.00	0.17%
12	1	Surface	Uranium	3.76E+02	0.00	0.02	0.00	0.02	1.68%
12	1	Surface	Vanadium	2.80E+01	0.01	1.03	0.00	1.04	89.36%
12	1	Surface	**Totals**		**0.02**	**1.15**	**0.00**	**1.2**	
12	1	Surface	**Percent**		**1.68%**	**98.17%**	**0.15%**		
13	1	Surface	**Totals**					**0.0**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	1	Surface	**Percent**						
13	4	Surface	**Totals**					**0.0**	
13	4	Surface	**Percent**						
13	5	Surface	Aluminum	1.13E+04	0.00	0.00	0.00	0.00	7.46%
13	5	Surface	Antimony	8.20E-01	0.00	0.00		0.00	7.14%
13	5	Surface	Cadmium	1.20E+00	0.00	0.00	0.00	0.00	0.64%
13	5	Surface	Chromium	1.51E+01	0.00	0.00		0.00	0.39%
13	5	Surface	Nickel	1.17E+02	0.00	0.02	0.00	0.02	59.90%
13	5	Surface	Uranium	1.19E+02	0.00	0.01	0.00	0.01	24.46%
13	5	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
13	5	Surface	**Percent**		**6.47%**	**92.55%**	**0.99%**		
13	6	Surface	**Totals**					**0.0**	
13	6	Surface	**Percent**						
13	9	Surface	Uranium	1.82E+01	0.00	0.00	0.00	0.00	100.00%
13	9	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
13	9	Surface	**Percent**		**17.47%**	**82.13%**	**0.39%**		
13	11	Surface	**Totals**					**0.0**	
13	11	Surface	**Percent**						
14	1	Surface	Arsenic	1.10E+01	0.00	0.00	0.00	0.00	9.88%
14	1	Surface	Chromium	6.36E+01	0.00	0.00		0.00	1.07%
14	1	Surface	Iron	1.89E+04	0.00	0.00		0.00	10.72%
14	1	Surface	Nickel	1.40E+02	0.00	0.02	0.00	0.02	46.58%
14	1	Surface	Silver	1.67E+01	0.00	0.01		0.01	22.14%
14	1	Surface	Uranium	7.21E+01	0.00	0.00	0.00	0.00	9.61%
14	1	Surface	**Totals**		**0.00**	**0.04**	**0.00**	**0.0**	
14	1	Surface	**Percent**		**6.84%**	**92.76%**	**0.40%**		
14	2	Surface	Antimony	3.70E+00	0.00	0.01		0.01	6.19%
14	2	Surface	Arsenic	1.45E+01	0.00	0.00	0.00	0.01	3.87%
14	2	Surface	Beryllium	7.10E-01	0.00	0.00	0.00	0.00	0.70%
14	2	Surface	Chromium	6.65E+01	0.00	0.00		0.00	0.33%
14	2	Surface	Copper	1.76E+02	0.00	0.00		0.00	0.52%
14	2	Surface	Iron	3.72E+04	0.00	0.01		0.01	6.26%
14	2	Surface	Manganese	1.44E+03	0.00	0.00	0.00	0.00	2.36%
14	2	Surface	Mercury	2.67E-01	0.00	0.00		0.00	1.25%
14	2	Surface	Nickel	6.78E+02	0.00	0.09	0.00	0.09	66.94%
14	2	Surface	Uranium	2.93E+02	0.00	0.01	0.00	0.02	11.57%
14	2	Surface	**Totals**		**0.01**	**0.12**	**0.00**	**0.1**	
14	2	Surface	**Percent**		**5.35%**	**92.86%**	**1.79%**		
14	3	Surface	Arsenic	1.30E+01	0.00	0.00	0.00	0.00	3.06%
14	3	Surface	Chromium	7.01E+01	0.00	0.00		0.00	0.31%
14	3	Surface	Copper	1.29E+02	0.00	0.00		0.00	0.34%
14	3	Surface	Iron	3.48E+04	0.00	0.01		0.01	5.19%
14	3	Surface	Manganese	1.06E+03	0.00	0.00	0.00	0.00	1.53%
14	3	Surface	Mercury	7.48E+00	0.00	0.05		0.05	31.11%
14	3	Surface	Molybdenum	2.21E+01	0.00	0.00		0.00	0.46%
14	3	Surface	Nickel	5.76E+02	0.00	0.07	0.00	0.08	50.40%
14	3	Surface	Uranium	2.18E+02	0.00	0.01	0.00	0.01	7.60%
14	3	Surface	**Totals**		**0.01**	**0.14**	**0.00**	**0.1**	
14	3	Surface	**Percent**		**4.29%**	**94.50%**	**1.20%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
14	4	Surface	Antimony	4.30E+00	0.00	0.01		0.01	6.40%
14	4	Surface	Arsenic	1.33E+01	0.00	0.00	0.00	0.00	3.15%
14	4	Surface	Chromium	7.20E+01	0.00	0.00		0.00	0.32%
14	4	Surface	Copper	3.54E+02	0.00	0.00		0.00	0.93%
14	4	Surface	Iron	3.88E+04	0.00	0.01		0.01	5.82%
14	4	Surface	Mercury	4.87E-01	0.00	0.00		0.00	2.04%
14	4	Surface	Nickel	7.31E+02	0.00	0.09	0.00	0.10	64.20%
14	4	Surface	Silver	1.17E+01	0.00	0.01		0.01	4.09%
14	4	Surface	Uranium	3.72E+02	0.00	0.02	0.00	0.02	13.05%
14	4	Surface	**Totals**		**0.01**	**0.14**	**0.00**	**0.1**	
14	4	Surface	**Percent**		**5.22%**	**94.35%**	**0.43%**		
14	5	Surface	Antimony	2.30E+00	0.00	0.00		0.01	2.85%
14	5	Surface	Arsenic	1.31E+01	0.00	0.00	0.00	0.00	2.58%
14	5	Surface	Cadmium	3.90E+00	0.00	0.00	0.00	0.00	0.30%
14	5	Surface	Chromium	4.70E+01	0.00	0.00		0.00	0.17%
14	5	Surface	Cobalt	1.40E+01	0.00	0.01	0.00	0.01	4.16%
14	5	Surface	Copper	1.34E+02	0.00	0.00		0.00	0.29%
14	5	Surface	Iron	3.92E+04	0.00	0.01		0.01	4.89%
14	5	Surface	Manganese	8.28E+02	0.00	0.00	0.00	0.00	1.00%
14	5	Surface	Mercury	1.09E+01	0.00	0.07		0.07	38.10%
14	5	Surface	Nickel	4.61E+02	0.00	0.06	0.00	0.06	33.78%
14	5	Surface	Silver	1.29E+01	0.00	0.01		0.01	3.75%
14	5	Surface	Thallium	4.10E-01	0.00	0.00		0.00	0.45%
14	5	Surface	Uranium	2.62E+02	0.00	0.01	0.00	0.01	7.67%
14	5	Surface	**Totals**		**0.01**	**0.17**	**0.00**	**0.2**	
14	5	Surface	**Percent**		**4.90%**	**94.19%**	**0.90%**		
14	6	Surface	Antimony	2.70E+00	0.00	0.01		0.01	3.43%
14	6	Surface	Cadmium	8.40E-01	0.00	0.00	0.00	0.00	0.07%
14	6	Surface	Chromium	4.46E+02	0.00	0.00		0.00	1.70%
14	6	Surface	Copper	1.22E+02	0.00	0.00		0.00	0.27%
14	6	Surface	Mercury	3.47E-01	0.00	0.00		0.00	1.24%
14	6	Surface	Nickel	9.63E+02	0.00	0.12	0.00	0.13	72.37%
14	6	Surface	Silver	1.19E+01	0.00	0.01		0.01	3.55%
14	6	Surface	Uranium	5.79E+02	0.01	0.02	0.00	0.03	17.37%
14	6	Surface	**Totals**		**0.01**	**0.17**	**0.00**	**0.2**	
14	6	Surface	**Percent**		**4.02%**	**95.53%**	**0.45%**		
14	7	Surface	Antimony	7.50E-01	0.00	0.00		0.00	0.71%
14	7	Surface	Arsenic	1.13E+01	0.00	0.00	0.00	0.00	1.72%
14	7	Surface	Cadmium	2.70E+00	0.00	0.00	0.00	0.00	0.16%
14	7	Surface	Chromium	6.46E+01	0.00	0.00		0.00	0.18%
14	7	Surface	Mercury	7.82E+00	0.00	0.05		0.05	20.93%
14	7	Surface	Nickel	1.22E+03	0.00	0.16	0.00	0.16	68.81%
14	7	Surface	Uranium	3.33E+02	0.00	0.01	0.00	0.02	7.48%
14	7	Surface	**Totals**		**0.01**	**0.22**	**0.00**	**0.2**	
14	7	Surface	**Percent**		**2.83%**	**96.75%**	**0.42%**		
14	8	Surface	Antimony	6.10E-01	0.00	0.00		0.00	0.82%
14	8	Surface	Arsenic	1.14E+01	0.00	0.00	0.00	0.00	2.43%
14	8	Surface	Chromium	4.60E+01	0.00	0.00		0.00	0.18%
14	8	Surface	Mercury	7.90E+00	0.00	0.05		0.05	29.73%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
14	8	Surface	Nickel	6.73E+02	0.00	0.09	0.00	0.09	53.21%
14	8	Surface	Silver	9.63E+00	0.00	0.00		0.01	3.03%
14	8	Surface	Uranium	3.35E+02	0.00	0.01	0.00	0.02	10.60%
14	8	Surface	**Totals**		**0.01**	**0.16**	**0.00**	**0.2**	
14	8	Surface	**Percent**		**3.53%**	**96.12%**	**0.35%**		
14	9	Surface	Antimony	2.00E+00	0.00	0.00		0.00	2.04%
14	9	Surface	Arsenic	1.40E+01	0.00	0.00	0.00	0.00	2.29%
14	9	Surface	Cadmium	9.40E-01	0.00	0.00	0.00	0.00	0.06%
14	9	Surface	Chromium	4.64E+01	0.00	0.00		0.00	0.14%
14	9	Surface	Mercury	1.13E+00	0.00	0.01		0.01	3.24%
14	9	Surface	Nickel	9.43E+02	0.00	0.12	0.00	0.12	56.93%
14	9	Surface	Uranium	1.46E+03	0.01	0.06	0.00	0.08	35.29%
14	9	Surface	**Totals**		**0.02**	**0.20**	**0.00**	**0.2**	
14	9	Surface	**Percent**		**7.48%**	**92.05%**	**0.47%**		
14	10	Surface	Antimony	9.40E-01	0.00	0.00		0.00	0.79%
14	10	Surface	Arsenic	1.12E+01	0.00	0.00	0.00	0.00	1.51%
14	10	Surface	Chromium	4.19E+01	0.00	0.00		0.00	0.11%
14	10	Surface	Copper	1.41E+02	0.00	0.00		0.00	0.21%
14	10	Surface	Iron	2.75E+04	0.00	0.01		0.01	2.33%
14	10	Surface	Mercury	2.51E+01	0.00	0.15		0.16	59.42%
14	10	Surface	Nickel	6.00E+02	0.00	0.08	0.00	0.08	29.89%
14	10	Surface	Uranium	2.88E+02	0.00	0.01	0.00	0.02	5.74%
14	10	Surface	**Totals**		**0.01**	**0.25**	**0.00**	**0.3**	
14	10	Surface	**Percent**		**3.05%**	**96.75%**	**0.20%**		
15	1	Surface	Antimony	6.40E-01	0.00	0.00		0.00	3.65%
15	1	Surface	Arsenic	1.24E+01	0.00	0.00	0.00	0.00	11.24%
15	1	Surface	Chromium	5.61E+01	0.00	0.00		0.00	0.96%
15	1	Surface	Copper	1.95E+02	0.00	0.00		0.00	1.96%
15	1	Surface	Iron	2.95E+04	0.00	0.01		0.01	16.95%
15	1	Surface	Nickel	1.33E+02	0.00	0.02	0.00	0.02	44.64%
15	1	Surface	Silver	1.23E+01	0.00	0.01		0.01	16.46%
15	1	Surface	Uranium	3.09E+01	0.00	0.00	0.00	0.00	4.16%
15	1	Surface	**Totals**		**0.00**	**0.04**	**0.00**	**0.0**	
15	1	Surface	**Percent**		**7.71%**	**91.91%**	**0.38%**		
15	2	Surface	Antimony	6.60E-01	0.00	0.00		0.00	1.37%
15	2	Surface	Arsenic	1.63E+01	0.00	0.00	0.00	0.01	5.36%
15	2	Surface	Chromium	5.90E+01	0.00	0.00		0.00	0.37%
15	2	Surface	Iron	3.89E+04	0.00	0.01		0.01	8.11%
15	2	Surface	Mercury	9.33E+00	0.00	0.06		0.06	54.25%
15	2	Surface	Nickel	1.97E+02	0.00	0.03	0.00	0.03	24.11%
15	2	Surface	Uranium	1.32E+02	0.00	0.01	0.00	0.01	6.43%
15	2	Surface	**Totals**		**0.01**	**0.10**	**0.00**	**0.1**	
15	2	Surface	**Percent**		**5.03%**	**94.76%**	**0.21%**		
15	3	Surface	Antimony	2.45E+01	0.00	0.05		0.05	22.16%
15	3	Surface	Arsenic	2.60E+01	0.00	0.01	0.00	0.01	3.75%
15	3	Surface	Beryllium	7.60E-01	0.00	0.00	0.00	0.00	0.40%
15	3	Surface	Cadmium	1.19E+01	0.00	0.00	0.00	0.00	0.66%
15	3	Surface	Chromium	7.53E+01	0.00	0.00		0.00	0.20%
15	3	Surface	Cobalt	3.41E+01	0.00	0.01	0.00	0.02	7.39%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	3	Surface	Copper	1.40E+03	0.00	0.00		0.01	2.23%
15	3	Surface	Iron	9.20E+04	0.00	0.02		0.02	8.38%
15	3	Surface	Manganese	1.60E+03	0.00	0.00	0.00	0.00	1.42%
15	3	Surface	Mercury	2.74E+00	0.00	0.02		0.02	6.96%
15	3	Surface	Molybdenum	1.70E+01	0.00	0.00		0.00	0.22%
15	3	Surface	Nickel	7.57E+02	0.00	0.10	0.00	0.10	40.41%
15	3	Surface	Selenium	2.65E+01	0.00	0.00	0.00	0.00	0.34%
15	3	Surface	Silver	3.20E+00	0.00	0.00		0.00	0.68%
15	3	Surface	Uranium	2.16E+02	0.00	0.01	0.00	0.01	4.61%
15	3	Surface	Zinc	8.79E+02	0.00	0.00		0.00	0.19%
15	3	Surface	**Totals**		**0.02**	**0.23**	**0.00**	**0.2**	
15	3	Surface	**Percent**		**6.52%**	**92.22%**	**1.26%**		
15	4	Surface	Antimony	7.40E+00	0.00	0.02		0.02	4.87%
15	4	Surface	Arsenic	3.47E+01	0.00	0.01	0.00	0.01	3.63%
15	4	Surface	Cadmium	1.40E+00	0.00	0.00	0.00	0.00	0.06%
15	4	Surface	Chromium	1.02E+02	0.00	0.00		0.00	0.20%
15	4	Surface	Copper	7.05E+02	0.00	0.00		0.00	0.82%
15	4	Surface	Iron	7.81E+04	0.00	0.01		0.02	5.17%
15	4	Surface	Manganese	1.54E+03	0.00	0.00	0.00	0.00	0.99%
15	4	Surface	Mercury	1.41E+01	0.00	0.09		0.09	26.03%
15	4	Surface	Nickel	1.37E+03	0.00	0.18	0.00	0.18	53.37%
15	4	Surface	Silver	1.46E+01	0.00	0.01		0.01	2.26%
15	4	Surface	Uranium	1.57E+02	0.00	0.01	0.00	0.01	2.43%
15	4	Surface	Zinc	1.19E+03	0.00	0.00		0.00	0.18%
15	4	Surface	**Totals**		**0.01**	**0.32**	**0.00**	**0.3**	
15	4	Surface	**Percent**		**3.66%**	**95.44%**	**0.90%**		
15	5	Surface	Antimony	3.10E+00	0.00	0.01		0.01	5.62%
15	5	Surface	Arsenic	1.28E+01	0.00	0.00	0.00	0.00	3.69%
15	5	Surface	Cadmium	1.50E+00	0.00	0.00	0.00	0.00	0.17%
15	5	Surface	Chromium	4.28E+01	0.00	0.00		0.00	0.23%
15	5	Surface	Copper	5.63E+03	0.00	0.02		0.02	17.99%
15	5	Surface	Mercury	3.38E-01	0.00	0.00		0.00	1.72%
15	5	Surface	Nickel	5.10E+02	0.00	0.07	0.00	0.07	54.60%
15	5	Surface	Silver	1.46E+01	0.00	0.01		0.01	6.22%
15	5	Surface	Uranium	2.13E+02	0.00	0.01	0.00	0.01	9.12%
15	5	Surface	Zinc	1.52E+03	0.00	0.00		0.00	0.65%
15	5	Surface	**Totals**		**0.01**	**0.11**	**0.00**	**0.1**	
15	5	Surface	**Percent**		**6.69%**	**92.94%**	**0.37%**		
15	6	Surface	Antimony	5.10E+00	0.00	0.01		0.01	12.88%
15	6	Surface	Arsenic	1.24E+01	0.00	0.00	0.00	0.00	5.00%
15	6	Surface	Cadmium	1.50E+00	0.00	0.00	0.00	0.00	0.23%
15	6	Surface	Chromium	5.80E+01	0.00	0.00		0.00	0.44%
15	6	Surface	Cobalt	1.62E+01	0.00	0.01	0.00	0.01	9.81%
15	6	Surface	Copper	4.23E+02	0.00	0.00		0.00	1.88%
15	6	Surface	Iron	3.15E+04	0.00	0.01		0.01	8.02%
15	6	Surface	Mercury	4.10E-01	0.00	0.00		0.00	2.91%
15	6	Surface	Nickel	3.24E+02	0.00	0.04	0.00	0.04	48.35%
15	6	Surface	Silver	1.09E+01	0.00	0.01		0.01	6.48%
15	6	Surface	Uranium	6.70E+01	0.00	0.00	0.00	0.00	4.00%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	6	Surface	**Totals**		**0.01**	**0.08**	**0.00**	**0.1**	
15	6	Surface	**Percent**		**6.48%**	**92.99%**	**0.53%**		
15	7	Surface	Antimony	7.50E-01	0.00	0.00		0.00	1.60%
15	7	Surface	Arsenic	1.61E+01	0.00	0.00	0.00	0.01	5.47%
15	7	Surface	Cadmium	1.00E+00	0.00	0.00	0.00	0.00	0.13%
15	7	Surface	Chromium	7.87E+01	0.00	0.00		0.00	0.50%
15	7	Surface	Copper	7.33E+02	0.00	0.00		0.00	2.76%
15	7	Surface	Iron	3.42E+04	0.00	0.01		0.01	7.35%
15	7	Surface	Manganese	1.11E+03	0.00	0.00	0.00	0.00	2.31%
15	7	Surface	Nickel	5.59E+02	0.00	0.07	0.00	0.07	70.42%
15	7	Surface	Silver	1.29E+01	0.00	0.01		0.01	6.45%
15	7	Surface	Uranium	5.39E+01	0.00	0.00	0.00	0.00	2.71%
15	7	Surface	Zinc	5.87E+02	0.00	0.00		0.00	0.29%
15	7	Surface	**Totals**		**0.00**	**0.10**	**0.00**	**0.1**	
15	7	Surface	**Percent**		**4.81%**	**93.43%**	**1.77%**		
15	8	Surface	Antimony	5.40E+00	0.00	0.01		0.01	10.04%
15	8	Surface	Arsenic	1.17E+01	0.00	0.00	0.00	0.00	3.45%
15	8	Surface	Chromium	7.74E+01	0.00	0.00		0.00	0.43%
15	8	Surface	Copper	1.62E+02	0.00	0.00		0.00	0.53%
15	8	Surface	Iron	2.83E+04	0.00	0.01		0.01	5.29%
15	8	Surface	Mercury	1.00E+01	0.00	0.06		0.06	52.44%
15	8	Surface	Nickel	1.82E+02	0.00	0.02	0.00	0.02	19.95%
15	8	Surface	Silver	1.36E+01	0.00	0.01		0.01	5.92%
15	8	Surface	Uranium	4.46E+01	0.00	0.00	0.00	0.00	1.95%
15	8	Surface	**Totals**		**0.00**	**0.11**	**0.00**	**0.1**	
15	8	Surface	**Percent**		**3.61%**	**96.24%**	**0.15%**		
15	9	Surface	Arsenic	1.10E+01	0.00	0.00	0.00	0.00	9.66%
15	9	Surface	Chromium	9.56E+01	0.00	0.00		0.00	1.57%
15	9	Surface	Copper	1.36E+02	0.00	0.00		0.00	1.31%
15	9	Surface	Iron	2.76E+04	0.00	0.01		0.01	15.26%
15	9	Surface	Nickel	1.49E+02	0.00	0.02	0.00	0.02	48.31%
15	9	Surface	Silver	1.54E+01	0.00	0.01		0.01	19.91%
15	9	Surface	Uranium	3.07E+01	0.00	0.00	0.00	0.00	3.97%
15	9	Surface	**Totals**		**0.00**	**0.04**	**0.00**	**0.0**	
15	9	Surface	**Percent**		**6.82%**	**92.79%**	**0.38%**		
15	10	Surface	Chromium	3.55E+01	0.00	0.00		0.00	0.30%
15	10	Surface	Mercury	7.84E+00	0.00	0.05		0.05	63.28%
15	10	Surface	Nickel	1.46E+02	0.00	0.02	0.00	0.02	24.72%
15	10	Surface	Silver	1.08E+01	0.00	0.01		0.01	7.30%
15	10	Surface	Uranium	6.47E+01	0.00	0.00	0.00	0.00	4.39%
15	10	Surface	**Totals**		**0.00**	**0.08**	**0.00**	**0.1**	
15	10	Surface	**Percent**		**2.03%**	**97.82%**	**0.15%**		
16	1	Surface	**Totals**					**0.0**	
16	1	Surface	**Percent**						
16	2	Surface	Beryllium	8.40E-01	0.00	0.00	0.00	0.00	27.01%
16	2	Surface	Chromium	2.04E+01	0.00	0.00		0.00	3.33%
16	2	Surface	Nickel	2.16E+01	0.00	0.00	0.00	0.00	69.66%
16	2	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
16	2	Surface	**Percent**		**1.02%**	**98.55%**	**0.43%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
16	3	Surface	**Totals**					**0.0**	
16	3	Surface	**Percent**						
16	4	Surface	**Totals**					**0.0**	
16	4	Surface	**Percent**						
19	1	Surface	Beryllium	1.10E+00	0.00	0.00	0.00	0.00	40.86%
19	1	Surface	Cadmium	1.20E+00	0.00	0.00	0.00	0.00	4.67%
19	1	Surface	Thallium	9.80E-01	0.00	0.00		0.00	54.47%
19	1	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
19	1	Surface	**Percent**		**10.92%**	**88.77%**	**0.31%**		
26	1	Surface	Arsenic	1.29E+01	0.00	0.00	0.00	0.00	28.63%
26	1	Surface	Beryllium	6.69E-01	0.00	0.00	0.00	0.00	5.50%
26	1	Surface	Cadmium	1.99E+00	0.00	0.00	0.00	0.00	1.71%
26	1	Surface	Chromium	1.90E+01	0.00	0.00		0.00	0.79%
26	1	Surface	Mercury	1.66E-01	0.00	0.00		0.00	6.51%
26	1	Surface	Nickel	1.76E+01	0.00	0.00	0.00	0.00	14.49%
26	1	Surface	Uranium	1.29E+02	0.00	0.01	0.00	0.01	42.36%
26	1	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
26	1	Surface	**Percent**		**15.46%**	**83.87%**	**0.67%**		
26	2	Surface	Aluminum	2.17E+04	0.00	0.00	0.00	0.00	0.28%
26	2	Surface	Arsenic	4.72E+01	0.00	0.01	0.00	0.02	1.27%
26	2	Surface	Barium	1.49E+02	0.00	0.00	0.00	0.00	0.11%
26	2	Surface	Beryllium	9.69E+00	0.00	0.01	0.00	0.01	0.96%
26	2	Surface	Cadmium	2.38E+00	0.00	0.00	0.00	0.00	0.02%
26	2	Surface	Chromium	3.90E+01	0.00	0.00		0.00	0.02%
26	2	Surface	Cobalt	5.20E+01	0.00	0.02	0.00	0.03	2.10%
26	2	Surface	Copper	1.31E+02	0.00	0.00		0.00	0.04%
26	2	Surface	Iron	5.32E+04	0.00	0.01		0.01	0.90%
26	2	Surface	Nickel	1.13E+02	0.00	0.01	0.00	0.01	1.13%
26	2	Surface	Thallium	1.39E+01	0.00	0.02		0.03	2.07%
26	2	Surface	Uranium	6.46E+02	0.01	0.03	0.00	0.03	2.57%
26	2	Surface	Vanadium	3.13E+01	0.01	1.15	0.00	1.16	88.53%
26	2	Surface	**Totals**		**0.04**	**1.28**	**0.00**	**1.3**	
26	2	Surface	**Percent**		**2.67%**	**97.23%**	**0.10%**		
26	3	Surface	Aluminum	9.55E+03	0.00	0.00	0.00	0.00	0.11%
26	3	Surface	Antimony	1.40E+00	0.00	0.00		0.00	0.21%
26	3	Surface	Arsenic	5.09E+01	0.00	0.01	0.00	0.02	1.23%
26	3	Surface	Barium	4.48E+02	0.00	0.00	0.00	0.00	0.29%
26	3	Surface	Beryllium	2.54E+00	0.00	0.00	0.00	0.00	0.23%
26	3	Surface	Cadmium	2.34E+00	0.00	0.00	0.00	0.00	0.02%
26	3	Surface	Chromium	3.25E+01	0.00	0.00		0.00	0.01%
26	3	Surface	Cobalt	1.21E+01	0.00	0.01	0.00	0.01	0.44%
26	3	Surface	Mercury	3.87E-01	0.00	0.00		0.00	0.16%
26	3	Surface	Naphthalene	1.32E+00	0.00	0.00	0.00	0.00	0.06%
26	3	Surface	Nickel	2.97E+01	0.00	0.00	0.00	0.00	0.27%
26	3	Surface	Silver	2.59E+01	0.00	0.01		0.01	0.92%
26	3	Surface	Thallium	6.00E-01	0.00	0.00		0.00	0.08%
26	3	Surface	Uranium	9.88E+01	0.00	0.00	0.00	0.01	0.35%
26	3	Surface	Vanadium	3.77E+01	0.01	1.39	0.00	1.40	95.62%
26	3	Surface	**Totals**		**0.02**	**1.44**	**0.00**	**1.5**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
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HI = hazard index

Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
26	3	Surface	**Percent**		**1.53%**	**98.37%**	**0.10%**		
26	4	Surface	Aluminum	1.07E+04	0.00	0.00	0.00	0.00	2.11%
26	4	Surface	Antimony	6.00E-01	0.00	0.00		0.00	1.56%
26	4	Surface	Beryllium	6.91E-01	0.00	0.00	0.00	0.00	1.06%
26	4	Surface	Cadmium	1.99E+00	0.00	0.00	0.00	0.00	0.32%
26	4	Surface	Chromium	8.57E+01	0.00	0.00		0.00	0.67%
26	4	Surface	Copper	1.16E+02	0.00	0.00		0.00	0.53%
26	4	Surface	Mercury	3.07E+00	0.00	0.02		0.02	22.42%
26	4	Surface	Nickel	7.54E+01	0.00	0.01	0.00	0.01	11.57%
26	4	Surface	Uranium	9.75E+02	0.01	0.04	0.00	0.05	59.77%
26	4	Surface	**Totals**		**0.01**	**0.08**	**0.00**	**0.1**	
26	4	Surface	**Percent**		**11.46%**	**88.08%**	**0.47%**		
47	1	Surface	Aluminum	1.50E+04	0.00	0.00	0.00	0.00	4.89%
47	1	Surface	Antimony	9.00E-01	0.00	0.00		0.00	3.85%
47	1	Surface	Arsenic	4.52E+01	0.00	0.01	0.00	0.02	30.84%
47	1	Surface	Beryllium	7.00E-01	0.00	0.00	0.00	0.00	1.77%
47	1	Surface	Cadmium	4.25E+00	0.00	0.00	0.00	0.00	1.12%
47	1	Surface	Chromium	5.39E+01	0.00	0.00		0.00	0.69%
47	1	Surface	Cobalt	1.43E+01	0.00	0.01	0.00	0.01	14.68%
47	1	Surface	Iron	2.95E+04	0.00	0.01		0.01	12.72%
47	1	Surface	Naphthalene	1.90E+00	0.00	0.00	0.00	0.00	2.65%
47	1	Surface	Nickel	8.25E+01	0.00	0.01	0.00	0.01	20.86%
47	1	Surface	Pyrene	1.11E+02	0.00	0.00	0.00	0.00	2.66%
47	1	Surface	Uranium	3.23E+01	0.00	0.00	0.00	0.00	3.27%
47	1	Surface	**Totals**		**0.01**	**0.04**	**0.00**	**0.1**	
47	1	Surface	**Percent**		**14.88%**	**81.33%**	**3.79%**		
74	1	Surface	**Totals**					**0.0**	
74	1	Surface	**Percent**						
75	1	Surface	Cadmium	1.10E+00	0.00	0.00	0.00	0.00	1.12%
75	1	Surface	Chromium	7.17E+01	0.00	0.00		0.00	3.53%
75	1	Surface	Copper	3.15E+02	0.00	0.00		0.00	9.14%
75	1	Surface	Nickel	8.87E+01	0.00	0.01	0.00	0.01	86.22%
75	1	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
75	1	Surface	**Percent**		**2.74%**	**96.76%**	**0.50%**		
76	1	Surface	Barium	2.69E+02	0.00	0.00	0.00	0.00	100.00%
76	1	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
76	1	Surface	**Percent**		**1.45%**	**97.24%**	**1.31%**		
78	1	Surface	Cadmium	2.36E+00	0.00	0.00	0.00	0.00	2.16%
78	1	Surface	Chromium	3.75E+01	0.00	0.00		0.00	1.66%
78	1	Surface	Naphthalene	1.60E+01	0.00	0.00	0.01	0.01	77.32%
78	1	Surface	Nickel	2.15E+01	0.00	0.00	0.00	0.00	18.85%
78	1	Surface	**Totals**		**0.00**	**0.00**	**0.01**	**0.0**	
78	1	Surface	**Percent**		**0.78%**	**25.30%**	**73.92%**		
80	1	Surface	Antimony	9.10E-01	0.00	0.00		0.00	0.66%
80	1	Surface	Beryllium	7.80E-01	0.00	0.00	0.00	0.00	0.33%
80	1	Surface	Chromium	1.65E+02	0.00	0.00		0.00	0.36%
80	1	Surface	Mercury	4.50E-01	0.00	0.00		0.00	0.91%
80	1	Surface	Uranium	5.72E+03	0.05	0.25	0.00	0.30	97.74%
80	1	Surface	**Totals**		**0.05**	**0.25**	**0.00**	**0.3**	

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HI = hazard index

Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
80	1	Surface	**Percent**		**17.12%**	**82.50%**	**0.39%**		
81	1	Surface	Aluminum	9.57E+03	0.00	0.00	0.00	0.00	0.39%
81	1	Surface	Arsenic	1.03E+01	0.00	0.00	0.00	0.00	0.88%
81	1	Surface	Beryllium	7.57E-01	0.00	0.00	0.00	0.00	0.24%
81	1	Surface	Chromium	8.62E+01	0.00	0.00		0.00	0.14%
81	1	Surface	Mercury	8.33E+00	0.00	0.05		0.05	12.67%
81	1	Surface	Nickel	7.29E+01	0.00	0.01	0.00	0.01	2.33%
81	1	Surface	Silver	2.70E+00	0.00	0.00		0.00	0.34%
81	1	Surface	Uranium	6.50E+03	0.06	0.28	0.00	0.34	83.00%
81	1	Surface	**Totals**		**0.06**	**0.35**	**0.00**	**0.4**	
81	1	Surface	**Percent**		**15.01%**	**84.61%**	**0.38%**		
99	1	Surface	Chromium	5.51E+01	0.00	0.00		0.00	0.49%
99	1	Surface	Mercury	9.53E+00	0.00	0.06		0.06	79.91%
99	1	Surface	Nickel	7.02E+01	0.00	0.01	0.00	0.01	12.38%
99	1	Surface	Silver	1.03E+01	0.00	0.01		0.01	7.22%
99	1	Surface	**Totals**		**0.00**	**0.07**	**0.00**	**0.1**	
99	1	Surface	**Percent**		**1.38%**	**98.56%**	**0.07%**		
138	1	Surface	Antimony	5.39E+00	0.00	0.01		0.01	10.66%
138	1	Surface	Arsenic	1.06E+01	0.00	0.00	0.00	0.00	3.34%
138	1	Surface	Cadmium	5.42E+00	0.00	0.00	0.00	0.00	0.66%
138	1	Surface	Chromium	5.39E+01	0.00	0.00		0.00	0.32%
138	1	Surface	Mercury	1.30E+01	0.00	0.08		0.08	72.12%
138	1	Surface	Nickel	7.04E+01	0.00	0.01	0.00	0.01	8.21%
138	1	Surface	Silver	1.01E+01	0.00	0.01		0.01	4.69%
138	1	Surface	**Totals**		**0.00**	**0.11**	**0.00**	**0.1**	
138	1	Surface	**Percent**		**2.52%**	**97.37%**	**0.11%**		
138	2	Surface	Nickel	7.99E+01	0.00	0.01	0.00	0.01	65.78%
138	2	Surface	Silver	1.04E+01	0.00	0.01		0.01	34.22%
138	2	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
138	2	Surface	**Percent**		**1.05%**	**98.61%**	**0.35%**		
153	1	Surface	**Totals**					**0.0**	
153	1	Surface	**Percent**						
154	1	Surface	Arsenic	1.52E+01	0.00	0.00	0.00	0.01	26.03%
154	1	Surface	Chromium	4.28E+01	0.00	0.00		0.00	1.38%
154	1	Surface	Nickel	9.89E+01	0.00	0.01	0.00	0.01	62.89%
154	1	Surface	Uranium	3.82E+01	0.00	0.00	0.00	0.00	9.70%
154	1	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
154	1	Surface	**Percent**		**9.09%**	**90.23%**	**0.67%**		
154	2	Surface	**Totals**					**0.0**	
154	2	Surface	**Percent**						
155	1	Surface	Antimony	3.65E+00	0.00	0.01		0.01	33.58%
155	1	Surface	Chromium	3.47E+01	0.00	0.00		0.00	0.95%
155	1	Surface	Nickel	7.65E+01	0.00	0.01	0.00	0.01	41.54%
155	1	Surface	Silver	1.11E+01	0.00	0.01		0.01	23.93%
155	1	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
155	1	Surface	**Percent**		**1.73%**	**98.05%**	**0.22%**		
156	1	Surface	Chromium	4.90E+01	0.00	0.00		0.00	0.42%
156	1	Surface	Manganese	2.83E+03	0.00	0.00	0.00	0.01	7.96%
156	1	Surface	Mercury	9.87E+00	0.00	0.06		0.06	79.60%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
156	1	Surface	Nickel	6.16E+01	0.00	0.01	0.00	0.01	10.45%
156	1	Surface	Uranium	2.32E+01	0.00	0.00	0.00	0.00	1.57%
156	1	Surface	**Totals**		**0.00**	**0.07**	**0.00**	**0.1**	
156	1	Surface	**Percent**		**2.27%**	**93.13%**	**4.60%**		
158	1	Surface	Antimony	5.23E-01	0.00	0.00		0.00	1.23%
158	1	Surface	Arsenic	1.01E+01	0.00	0.00	0.00	0.00	3.79%
158	1	Surface	Barium	2.19E+02	0.00	0.00	0.00	0.00	2.19%
158	1	Surface	Chromium	6.07E+01	0.00	0.00		0.00	0.43%
158	1	Surface	Cobalt	1.62E+01	0.00	0.01	0.00	0.01	9.14%
158	1	Surface	Manganese	9.91E+02	0.00	0.00	0.00	0.00	2.28%
158	1	Surface	Mercury	1.05E+01	0.00	0.06		0.07	69.06%
158	1	Surface	Nickel	7.28E+01	0.00	0.01	0.00	0.01	10.11%
158	1	Surface	Thallium	3.12E-01	0.00	0.00		0.00	0.65%
158	1	Surface	Uranium	2.03E+01	0.00	0.00	0.00	0.00	1.13%
158	1	Surface	**Totals**		**0.00**	**0.09**	**0.00**	**0.1**	
158	1	Surface	**Percent**		**4.26%**	**94.13%**	**1.61%**		
160	1	Surface	Antimony	6.80E-01	0.00	0.00		0.00	100.00%
160	1	Surface	**Totals**		**0.00**	**0.00**		**0.0**	
160	1	Surface	**Percent**		**3.09%**	**96.91%**			
163	1	Surface	Chromium	4.94E+01	0.00	0.00		0.00	100.00%
163	1	Surface	**Totals**		**0.00**	**0.00**		**0.0**	
163	1	Surface	**Percent**		**0.28%**	**99.72%**			
165	1	Surface	Antimony	2.20E+00	0.00	0.00		0.00	7.65%
165	1	Surface	Arsenic	6.35E+01	0.01	0.02	0.00	0.02	35.18%
165	1	Surface	Barium	5.84E+02	0.00	0.01	0.00	0.01	8.67%
165	1	Surface	Beryllium	6.82E-01	0.00	0.00	0.00	0.00	1.40%
165	1	Surface	Chromium	3.74E+01	0.00	0.00		0.00	0.39%
165	1	Surface	Mercury	3.78E-01	0.00	0.00		0.00	3.69%
165	1	Surface	Naphthalene	1.61E+00	0.00	0.00	0.00	0.00	1.82%
165	1	Surface	Nickel	3.47E+01	0.00	0.00	0.00	0.00	7.12%
165	1	Surface	Silver	3.09E+01	0.00	0.02		0.02	25.27%
165	1	Surface	Uranium	1.08E+02	0.00	0.00	0.00	0.01	8.82%
165	1	Surface	**Totals**		**0.01**	**0.05**	**0.00**	**0.1**	
165	1	Surface	**Percent**		**11.42%**	**86.24%**	**2.34%**		
169	1	Surface	Aluminum	1.42E+04	0.00	0.00	0.00	0.00	1.60%
169	1	Surface	Antimony	1.30E+00	0.00	0.00		0.00	1.92%
169	1	Surface	Arsenic	2.03E+01	0.00	0.01	0.00	0.01	4.78%
169	1	Surface	Beryllium	8.00E-01	0.00	0.00	0.00	0.00	0.70%
169	1	Surface	Chromium	2.15E+02	0.00	0.00		0.00	0.95%
169	1	Surface	Copper	3.74E+02	0.00	0.00		0.00	0.97%
169	1	Surface	Iron	4.16E+04	0.00	0.01		0.01	6.18%
169	1	Surface	Mercury	7.87E+00	0.00	0.05		0.05	32.67%
169	1	Surface	Nickel	5.49E+02	0.00	0.07	0.00	0.07	47.88%
169	1	Surface	Thallium	4.60E-01	0.00	0.00		0.00	0.60%
169	1	Surface	Uranium	5.03E+01	0.00	0.00	0.00	0.00	1.75%
169	1	Surface	**Totals**		**0.01**	**0.14**	**0.00**	**0.1**	
169	1	Surface	**Percent**		**4.21%**	**95.35%**	**0.43%**		
170	1	Surface	**Totals**					**0.0**	
170	1	Surface	**Percent**						

SWMU = solid waste management unit
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Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
176	1	Surface	Arsenic	4.86E+01	0.00	0.01	0.00	0.02	52.58%
176	1	Surface	Chromium	4.27E+01	0.00	0.00		0.00	0.87%
176	1	Surface	Nickel	1.07E+02	0.00	0.01	0.00	0.01	43.01%
176	1	Surface	Uranium	2.21E+01	0.00	0.00	0.00	0.00	3.54%
176	1	Surface	**Totals**		**0.00**	**0.03**	**0.00**	**0.0**	
176	1	Surface	**Percent**		**14.68%**	**84.47%**	**0.85%**		
180	1	Surface	Antimony	5.80E-01	0.00	0.00		0.00	1.41%
180	1	Surface	Arsenic	7.48E+01	0.01	0.02	0.00	0.03	29.00%
180	1	Surface	Chromium	5.54E+01	0.00	0.00		0.00	0.40%
180	1	Surface	Mercury	8.28E+00	0.00	0.05		0.05	56.59%
180	1	Surface	Nickel	8.77E+01	0.00	0.01	0.00	0.01	12.60%
180	1	Surface	**Totals**		**0.01**	**0.08**	**0.00**	**0.1**	
180	1	Surface	**Percent**		**8.51%**	**91.09%**	**0.40%**		
180	2	Surface	Antimony	4.58E-01	0.00	0.00		0.00	6.04%
180	2	Surface	Arsenic	1.27E+01	0.00	0.00	0.00	0.00	26.60%
180	2	Surface	Chromium	4.46E+01	0.00	0.00		0.00	1.76%
180	2	Surface	Nickel	8.42E+01	0.00	0.01	0.00	0.01	65.59%
180	2	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
180	2	Surface	**Percent**		**7.76%**	**91.58%**	**0.66%**		
180	3	Surface	Arsenic	1.34E+01	0.00	0.00	0.00	0.00	23.78%
180	3	Surface	Chromium	4.69E+01	0.00	0.00		0.00	1.57%
180	3	Surface	Nickel	6.77E+01	0.00	0.01	0.00	0.01	44.70%
180	3	Surface	Silver	1.14E+01	0.00	0.01		0.01	29.95%
180	3	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
180	3	Surface	**Percent**		**6.94%**	**92.55%**	**0.51%**		
180	4	Surface	Arsenic	1.15E+01	0.00	0.00	0.00	0.00	0.22%
180	4	Surface	Barium	2.13E+02	0.00	0.00	0.00	0.00	0.11%
180	4	Surface	Beryllium	1.60E+00	0.00	0.00	0.00	0.00	0.11%
180	4	Surface	Chromium	6.00E+01	0.00	0.00		0.00	0.02%
180	4	Surface	Iron	1.54E+04	0.00	0.00		0.00	0.19%
180	4	Surface	Manganese	7.09E+02	0.00	0.00	0.00	0.00	0.08%
180	4	Surface	Nickel	6.46E+01	0.00	0.01	0.00	0.01	0.46%
180	4	Surface	Silver	9.68E+00	0.00	0.00		0.01	0.28%
180	4	Surface	Vanadium	4.85E+01	0.02	1.78	0.00	1.80	98.52%
180	4	Surface	**Totals**		**0.02**	**1.81**	**0.00**	**1.8**	
180	4	Surface	**Percent**		**1.15%**	**98.80%**	**0.06%**		
181	1	Surface	Chromium	2.29E+01	0.00	0.00		0.00	2.17%
181	1	Surface	Thallium	3.50E+00	0.00	0.01		0.01	97.83%
181	1	Surface	**Totals**		**0.00**	**0.01**		**0.0**	
181	1	Surface	**Percent**		**17.17%**	**82.83%**			
194	1	Surface	Antimony	1.50E+00	0.00	0.00		0.00	5.66%
194	1	Surface	Chromium	3.87E+01	0.00	0.00		0.00	0.44%
194	1	Surface	Mercury	6.71E+00	0.00	0.04		0.04	71.18%
194	1	Surface	Nickel	5.84E+01	0.00	0.01	0.00	0.01	13.03%
194	1	Surface	Silver	1.09E+01	0.00	0.01		0.01	9.70%
194	1	Surface	**Totals**		**0.00**	**0.06**	**0.00**	**0.1**	
194	1	Surface	**Percent**		**1.46%**	**98.47%**	**0.07%**		
194	2	Surface	Chromium	5.96E+01	0.00	0.00		0.00	4.69%
194	2	Surface	Silver	1.31E+01	0.00	0.01		0.01	81.17%

SWMU = solid waste management unit
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Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	2	Surface	Uranium	2.28E+01	0.00	0.00	0.00	0.00	14.14%
194	2	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
194	2	Surface	**Percent**		**3.34%**	**96.61%**	**0.06%**		
194	3	Surface	Antimony	6.90E-01	0.00	0.00		0.00	9.97%
194	3	Surface	Arsenic	1.46E+01	0.00	0.00	0.00	0.01	33.71%
194	3	Surface	Chromium	3.90E+01	0.00	0.00		0.00	1.68%
194	3	Surface	Nickel	6.40E+01	0.00	0.01	0.00	0.01	54.64%
194	3	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
194	3	Surface	**Percent**		**9.61%**	**89.71%**	**0.68%**		
194	4	Surface	Chromium	4.84E+01	0.00	0.00		0.00	0.45%
194	4	Surface	Mercury	8.92E+00	0.00	0.05		0.06	78.19%
194	4	Surface	Nickel	6.91E+01	0.00	0.01	0.00	0.01	12.73%
194	4	Surface	Silver	1.18E+01	0.00	0.01		0.01	8.64%
194	4	Surface	**Totals**		**0.00**	**0.07**	**0.00**	**0.1**	
194	4	Surface	**Percent**		**1.37%**	**98.56%**	**0.07%**		
194	5	Surface	Chromium	4.58E+01	0.00	0.00		0.00	0.43%
194	5	Surface	Mercury	8.69E+00	0.00	0.05		0.05	76.46%
194	5	Surface	Nickel	7.54E+01	0.00	0.01	0.00	0.01	13.95%
194	5	Surface	Silver	1.25E+01	0.00	0.01		0.01	9.16%
194	5	Surface	**Totals**		**0.00**	**0.07**	**0.00**	**0.1**	
194	5	Surface	**Percent**		**1.37%**	**98.56%**	**0.07%**		
194	6	Surface	Chromium	3.70E+01	0.00	0.00		0.00	1.34%
194	6	Surface	Manganese	1.08E+03	0.00	0.00	0.00	0.00	12.81%
194	6	Surface	Nickel	8.06E+01	0.00	0.01	0.00	0.01	57.69%
194	6	Surface	Silver	9.89E+00	0.00	0.01		0.01	28.17%
194	6	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
194	6	Surface	**Percent**		**2.06%**	**90.33%**	**7.61%**		
194	7	Surface	Chromium	5.32E+01	0.00	0.00		0.00	2.08%
194	7	Surface	Nickel	7.71E+01	0.00	0.01	0.00	0.01	59.54%
194	7	Surface	Silver	1.25E+01	0.00	0.01		0.01	38.39%
194	7	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
194	7	Surface	**Percent**		**1.03%**	**98.65%**	**0.31%**		
194	8	Surface	Chromium	5.36E+01	0.00	0.00		0.00	16.99%
194	8	Surface	Manganese	8.00E+02	0.00	0.00	0.00	0.00	83.01%
194	8	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
194	8	Surface	**Percent**		**7.54%**	**45.12%**	**47.34%**		
194	9	Surface	Arsenic	1.14E+01	0.00	0.00	0.00	0.00	92.18%
194	9	Surface	Chromium	5.17E+01	0.00	0.00		0.00	7.82%
194	9	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
194	9	Surface	**Percent**		**23.87%**	**75.05%**	**1.08%**		
194	10	Surface	Arsenic	1.22E+01	0.00	0.00	0.00	0.00	29.65%
194	10	Surface	Chromium	3.63E+01	0.00	0.00		0.00	1.66%
194	10	Surface	Nickel	7.60E+01	0.00	0.01	0.00	0.01	68.68%
194	10	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
194	10	Surface	**Percent**		**8.40%**	**90.90%**	**0.71%**		
194	11	Surface	Chromium	3.27E+01	0.00	0.00		0.00	0.31%
194	11	Surface	Mercury	8.09E+00	0.00	0.05		0.05	71.26%
194	11	Surface	Nickel	1.01E+02	0.00	0.01	0.00	0.01	18.64%
194	11	Surface	Silver	1.33E+01	0.00	0.01		0.01	9.79%

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Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	11	Surface	**Totals**		**0.00**	**0.07**	**0.00**	**0.1**	
194	11	Surface	**Percent**		**1.34%**	**98.56%**	**0.10%**		
194	12	Surface	Chromium	6.34E+01	0.00	0.00		0.00	2.48%
194	12	Surface	Nickel	7.86E+01	0.00	0.01	0.00	0.01	60.71%
194	12	Surface	Silver	1.20E+01	0.00	0.01		0.01	36.82%
194	12	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
194	12	Surface	**Percent**		**1.03%**	**98.65%**	**0.32%**		
194	13	Surface	Chromium	4.77E+01	0.00	0.00		0.00	3.85%
194	13	Surface	Nickel	6.03E+01	0.00	0.01	0.00	0.01	96.15%
194	13	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
194	13	Surface	**Percent**		**1.02%**	**98.48%**	**0.51%**		
194	14	Surface	Chromium	5.21E+01	0.00	0.00		0.00	0.68%
194	14	Surface	Mercury	8.14E+00	0.00	0.05		0.05	99.32%
194	14	Surface	**Totals**		**0.00**	**0.05**		**0.1**	
194	14	Surface	**Percent**		**1.46%**	**98.54%**			
194	15	Surface	Chromium	5.33E+01	0.00	0.00		0.00	6.17%
194	15	Surface	Silver	1.03E+01	0.00	0.01		0.01	93.83%
194	15	Surface	**Totals**		**0.00**	**0.01**		**0.0**	
194	15	Surface	**Percent**		**1.00%**	**99.00%**			
194	16	Surface	Antimony	7.40E-01	0.00	0.00		0.00	0.11%
194	16	Surface	Arsenic	1.15E+01	0.00	0.00	0.00	0.00	0.26%
194	16	Surface	Beryllium	8.70E-01	0.00	0.00	0.00	0.00	0.07%
194	16	Surface	Chromium	5.32E+01	0.00	0.00		0.00	0.02%
194	16	Surface	Nickel	7.20E+01	0.00	0.01	0.00	0.01	0.61%
194	16	Surface	Thallium	6.30E-01	0.00	0.00		0.00	0.08%
194	16	Surface	Vanadium	4.11E+01	0.02	1.51	0.00	1.53	98.85%
194	16	Surface	**Totals**		**0.02**	**1.53**	**0.00**	**1.5**	
194	16	Surface	**Percent**		**1.13%**	**98.86%**	**0.01%**		
194	17	Surface	Arsenic	1.16E+01	0.00	0.00	0.00	0.00	89.90%
194	17	Surface	Cadmium	1.10E+00	0.00	0.00	0.00	0.00	3.31%
194	17	Surface	Chromium	4.65E+01	0.00	0.00		0.00	6.79%
194	17	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
194	17	Surface	**Percent**		**23.94%**	**74.86%**	**1.20%**		
194	18	Surface	Arsenic	1.06E+01	0.00	0.00	0.00	0.00	29.35%
194	18	Surface	Beryllium	7.40E-01	0.00	0.00	0.00	0.00	7.59%
194	18	Surface	Chromium	6.85E+01	0.00	0.00		0.00	3.57%
194	18	Surface	Nickel	5.78E+01	0.00	0.01	0.00	0.01	59.48%
194	18	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
194	18	Surface	**Percent**		**8.31%**	**91.02%**	**0.67%**		
194	19	Surface	Arsenic	1.07E+01	0.00	0.00	0.00	0.00	32.17%
194	19	Surface	Chromium	4.84E+01	0.00	0.00		0.00	2.73%
194	19	Surface	Nickel	5.84E+01	0.00	0.01	0.00	0.01	65.11%
194	19	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
194	19	Surface	**Percent**		**9.01%**	**90.27%**	**0.72%**		
194	20	Surface	Arsenic	1.18E+01	0.00	0.00	0.00	0.00	0.28%
194	20	Surface	Barium	3.26E+02	0.00	0.00	0.00	0.00	0.21%
194	20	Surface	Beryllium	1.10E+00	0.00	0.00	0.00	0.00	0.10%
194	20	Surface	Chromium	5.24E+01	0.00	0.00		0.00	0.02%
194	20	Surface	Cobalt	2.11E+01	0.00	0.01	0.00	0.01	0.75%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	20	Surface	Manganese	2.29E+03	0.00	0.00	0.00	0.00	0.33%
194	20	Surface	Mercury	7.28E+00	0.00	0.04		0.05	3.02%
194	20	Surface	Nickel	6.57E+01	0.00	0.01	0.00	0.01	0.57%
194	20	Surface	Silver	1.22E+01	0.00	0.01		0.01	0.42%
194	20	Surface	Vanadium	3.81E+01	0.01	1.40	0.00	1.42	94.31%
194	20	Surface	**Totals**		**0.02**	**1.48**	**0.00**	**1.5**	
194	20	Surface	**Percent**		**1.28%**	**98.50%**	**0.21%**		
194	21	Surface	Antimony	9.30E-01	0.00	0.00		0.00	3.81%
194	21	Surface	Chromium	5.51E+01	0.00	0.00		0.00	0.67%
194	21	Surface	Mercury	6.62E+00	0.00	0.04		0.04	76.23%
194	21	Surface	Nickel	7.01E+01	0.00	0.01	0.00	0.01	16.97%
194	21	Surface	Thallium	6.40E-01	0.00	0.00		0.00	2.31%
194	21	Surface	**Totals**		**0.00**	**0.05**	**0.00**	**0.1**	
194	21	Surface	**Percent**		**1.82%**	**98.09%**	**0.09%**		
194	22	Surface	Chromium	4.90E+01	0.00	0.00		0.00	15.45%
194	22	Surface	Manganese	8.19E+02	0.00	0.00	0.00	0.00	84.55%
194	22	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
194	22	Surface	**Percent**		**7.68%**	**44.11%**	**48.22%**		
194	23	Surface	Arsenic	1.16E+01	0.00	0.00	0.00	0.00	15.66%
194	23	Surface	Chromium	6.60E+01	0.00	0.00		0.00	1.68%
194	23	Surface	Iron	1.83E+04	0.00	0.00		0.00	15.66%
194	23	Surface	Nickel	8.77E+01	0.00	0.01	0.00	0.01	44.06%
194	23	Surface	Silver	1.15E+01	0.00	0.01		0.01	22.95%
194	23	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
194	23	Surface	**Percent**		**7.51%**	**92.08%**	**0.41%**		
194	24	Surface	Chromium	5.02E+01	0.00	0.00		0.00	3.47%
194	24	Surface	Nickel	7.08E+01	0.00	0.01	0.00	0.01	96.53%
194	24	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
194	24	Surface	**Percent**		**1.02%**	**98.47%**	**0.51%**		
194	25	Surface	Barium	3.00E+02	0.00	0.00	0.00	0.00	20.73%
194	25	Surface	Chromium	6.13E+01	0.00	0.00		0.00	2.96%
194	25	Surface	Manganese	9.96E+02	0.00	0.00	0.00	0.00	15.77%
194	25	Surface	Nickel	6.33E+01	0.00	0.01	0.00	0.01	60.53%
194	25	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
194	25	Surface	**Percent**		**2.37%**	**88.05%**	**9.58%**		
194	26	Surface	Beryllium	7.00E-01	0.00	0.00	0.00	0.00	12.51%
194	26	Surface	Chromium	4.18E+01	0.00	0.00		0.00	3.79%
194	26	Surface	Silver	1.03E+01	0.00	0.01		0.01	73.26%
194	26	Surface	Thallium	3.90E-01	0.00	0.00		0.00	10.43%
194	26	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
194	26	Surface	**Percent**		**2.74%**	**97.23%**	**0.03%**		
194	27	Surface	Chromium	5.22E+01	0.00	0.00		0.00	2.44%
194	27	Surface	Nickel	6.55E+01	0.00	0.01	0.00	0.01	60.42%
194	27	Surface	Silver	1.01E+01	0.00	0.01		0.01	37.14%
194	27	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
194	27	Surface	**Percent**		**1.03%**	**98.65%**	**0.32%**		
194	28	Surface	Arsenic	1.20E+01	0.00	0.00	0.00	0.00	0.28%
194	28	Surface	Beryllium	7.10E-01	0.00	0.00	0.00	0.00	0.06%
194	28	Surface	Chromium	6.07E+01	0.00	0.00		0.00	0.03%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
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HI = hazard index

Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	28	Surface	Manganese	1.14E+03	0.00	0.00	0.00	0.00	0.16%
194	28	Surface	Nickel	6.95E+01	0.00	0.01	0.00	0.01	0.59%
194	28	Surface	Silver	1.08E+01	0.00	0.01		0.01	0.37%
194	28	Surface	Vanadium	4.06E+01	0.02	1.49	0.00	1.51	98.52%
194	28	Surface	**Totals**		**0.02**	**1.51**	**0.00**	**1.5**	
194	28	Surface	**Percent**		**1.13%**	**98.77%**	**0.10%**		
194	29	Surface	Antimony	7.10E-01	0.00	0.00		0.00	10.14%
194	29	Surface	Chromium	5.06E+01	0.00	0.00		0.00	2.16%
194	29	Surface	Nickel	6.51E+01	0.00	0.01	0.00	0.01	54.91%
194	29	Surface	Silver	9.77E+00	0.00	0.01		0.01	32.79%
194	29	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
194	29	Surface	**Percent**		**1.24%**	**98.47%**	**0.29%**		
194	30	Surface	Chromium	5.66E+01	0.00	0.00		0.00	0.54%
194	30	Surface	Mercury	8.80E+00	0.00	0.05		0.05	78.96%
194	30	Surface	Nickel	6.99E+01	0.00	0.01	0.00	0.01	13.18%
194	30	Surface	Silver	9.76E+00	0.00	0.01		0.01	7.32%
194	30	Surface	**Totals**		**0.00**	**0.07**	**0.00**	**0.1**	
194	30	Surface	**Percent**		**1.38%**	**98.56%**	**0.07%**		
194	31	Surface	**Totals**					**0.0**	
194	31	Surface	**Percent**						
195	1	Surface	Chromium	6.33E+01	0.00	0.00		0.00	2.89%
195	1	Surface	Nickel	7.02E+01	0.00	0.01	0.00	0.01	63.42%
195	1	Surface	Silver	9.37E+00	0.00	0.00		0.00	33.68%
195	1	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
195	1	Surface	**Percent**		**1.03%**	**98.64%**	**0.33%**		
195	2	Surface	Chromium	4.52E+01	0.00	0.00		0.00	5.72%
195	2	Surface	Silver	9.48E+00	0.00	0.00		0.00	94.28%
195	2	Surface	**Totals**		**0.00**	**0.01**		**0.0**	
195	2	Surface	**Percent**		**1.01%**	**98.99%**			
195	3	Surface	Chromium	5.03E+01	0.00	0.00		0.00	4.65%
195	3	Surface	Nickel	5.22E+01	0.00	0.01	0.00	0.01	95.35%
195	3	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
195	3	Surface	**Percent**		**1.01%**	**98.49%**	**0.50%**		
195	4	Surface	Chromium	5.29E+01	0.00	0.00		0.00	4.12%
195	4	Surface	Nickel	6.23E+01	0.00	0.01	0.00	0.01	95.88%
195	4	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
195	4	Surface	**Percent**		**1.02%**	**98.48%**	**0.50%**		
195	5	Surface	Chromium	5.74E+01	0.00	0.00		0.00	3.46%
195	5	Surface	Nickel	8.11E+01	0.00	0.01	0.00	0.01	96.54%
195	5	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
195	5	Surface	**Percent**		**1.02%**	**98.47%**	**0.51%**		
195	6	Surface	Chromium	4.45E+01	0.00	0.00		0.00	2.52%
195	6	Surface	Nickel	8.71E+01	0.00	0.01	0.00	0.01	97.48%
195	6	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
195	6	Surface	**Percent**		**1.03%**	**98.46%**	**0.51%**		
195	7	Surface	Chromium	4.93E+01	0.00	0.00		0.00	7.21%
195	7	Surface	Silver	8.06E+00	0.00	0.00		0.00	92.79%
195	7	Surface	**Totals**		**0.00**	**0.00**		**0.0**	
195	7	Surface	**Percent**		**1.00%**	**99.00%**			

SWMU = solid waste management unit
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Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
195	8	Surface	Arsenic	1.16E+01	0.00	0.00	0.00	0.00	0.27%
195	8	Surface	Beryllium	7.40E-01	0.00	0.00	0.00	0.00	0.06%
195	8	Surface	Chromium	6.79E+01	0.00	0.00		0.00	0.03%
195	8	Surface	Cobalt	1.82E+01	0.00	0.01	0.00	0.01	0.63%
195	8	Surface	Nickel	7.01E+01	0.00	0.01	0.00	0.01	0.60%
195	8	Surface	Vanadium	4.04E+01	0.02	1.49	0.00	1.50	98.41%
195	8	Surface	**Totals**		**0.02**	**1.51**	**0.00**	**1.5**	
195	8	Surface	**Percent**		**1.22%**	**98.76%**	**0.02%**		
195	9	Surface	Chromium	6.08E+01	0.00	0.00		0.00	3.74%
195	9	Surface	Nickel	7.93E+01	0.00	0.01	0.00	0.01	96.26%
195	9	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
195	9	Surface	**Percent**		**1.02%**	**98.48%**	**0.51%**		
195	10	Surface	Chromium	4.51E+01	0.00	0.00		0.00	1.78%
195	10	Surface	Nickel	7.40E+01	0.00	0.01	0.00	0.01	57.62%
195	10	Surface	Silver	1.31E+01	0.00	0.01		0.01	40.61%
195	10	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
195	10	Surface	**Percent**		**1.04%**	**98.66%**	**0.30%**		
195	11	Surface	Aluminum	2.81E+04	0.00	0.00	0.00	0.00	0.16%
195	11	Surface	Arsenic	1.35E+01	0.00	0.00	0.00	0.00	0.16%
195	11	Surface	Barium	4.53E+02	0.00	0.00	0.00	0.00	0.14%
195	11	Surface	Chromium	5.05E+01	0.00	0.00		0.00	0.01%
195	11	Surface	Cobalt	2.77E+01	0.00	0.01	0.00	0.01	0.49%
195	11	Surface	Iron	1.97E+04	0.00	0.00		0.00	0.15%
195	11	Surface	Nickel	6.77E+01	0.00	0.01	0.00	0.01	0.29%
195	11	Surface	Thallium	6.60E-01	0.00	0.00		0.00	0.04%
195	11	Surface	Vanadium	7.97E+01	0.03	2.93	0.00	2.96	98.56%
195	11	Surface	**Totals**		**0.04**	**2.97**	**0.00**	**3.0**	
195	11	Surface	**Percent**		**1.23%**	**98.75%**	**0.03%**		
195	12	Surface	Beryllium	7.50E-01	0.00	0.00	0.00	0.00	9.49%
195	12	Surface	Chromium	7.04E+01	0.00	0.00		0.00	4.52%
195	12	Surface	Nickel	6.78E+01	0.00	0.01	0.00	0.01	85.99%
195	12	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
195	12	Surface	**Percent**		**1.01%**	**98.51%**	**0.47%**		
195	13	Surface	Chromium	6.55E+01	0.00	0.00		0.00	4.58%
195	13	Surface	Nickel	6.91E+01	0.00	0.01	0.00	0.01	95.42%
195	13	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
195	13	Surface	**Percent**		**1.01%**	**98.49%**	**0.50%**		
195	14	Surface	Chromium	5.94E+01	0.00	0.00		0.00	4.10%
195	14	Surface	Nickel	7.04E+01	0.00	0.01	0.00	0.01	95.90%
195	14	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
195	14	Surface	**Percent**		**1.02%**	**98.48%**	**0.50%**		
195	15	Surface	Chromium	4.82E+01	0.00	0.00		0.00	100.00%
195	15	Surface	**Totals**		**0.00**	**0.00**		**0.0**	
195	15	Surface	**Percent**		**0.28%**	**99.72%**			
195	16	Surface	Chromium	4.45E+01	0.00	0.00		0.00	2.68%
195	16	Surface	Nickel	8.16E+01	0.00	0.01	0.00	0.01	97.32%
195	16	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
195	16	Surface	**Percent**		**1.03%**	**98.46%**	**0.51%**		
195	17	Surface	Chromium	8.22E+01	0.00	0.00		0.00	3.16%

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Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
195	17	Surface	Mercury	4.17E-01	0.00	0.00		0.00	15.06%
195	17	Surface	Nickel	5.93E+01	0.00	0.01	0.00	0.01	45.04%
195	17	Surface	Silver	1.01E+01	0.00	0.01		0.01	30.63%
195	17	Surface	Thallium	5.40E-01	0.00	0.00		0.00	6.12%
195	17	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
195	17	Surface	**Percent**		**2.10%**	**97.67%**	**0.24%**		
196	1	Surface	Antimony	5.90E-01	0.00	0.00		0.00	1.73%
196	1	Surface	Chromium	1.96E+01	0.00	0.00		0.00	0.17%
196	1	Surface	Nickel	5.56E+02	0.00	0.07	0.00	0.07	96.48%
196	1	Surface	Uranium	2.33E+01	0.00	0.00	0.00	0.00	1.62%
196	1	Surface	**Totals**		**0.00**	**0.07**	**0.00**	**0.1**	
196	1	Surface	**Percent**		**1.35%**	**98.14%**	**0.51%**		
196	2	Surface	Barium	2.02E+02	0.00	0.00	0.00	0.00	15.89%
196	2	Surface	Cadmium	2.53E+00	0.00	0.00	0.00	0.00	2.87%
196	2	Surface	Chromium	2.07E+01	0.00	0.00		0.00	1.14%
196	2	Surface	Nickel	7.36E+01	0.00	0.01	0.00	0.01	80.09%
196	2	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
196	2	Surface	**Percent**		**1.65%**	**97.59%**	**0.76%**		
200	1	Surface	Antimony	5.60E-01	0.00	0.00		0.00	2.01%
200	1	Surface	Chromium	5.75E+01	0.00	0.00		0.00	0.62%
200	1	Surface	Mercury	6.71E+00	0.00	0.04		0.04	67.84%
200	1	Surface	Nickel	1.28E+02	0.00	0.02	0.00	0.02	27.21%
200	1	Surface	Uranium	2.73E+01	0.00	0.00	0.00	0.00	2.32%
200	1	Surface	**Totals**		**0.00**	**0.06**	**0.00**	**0.1**	
200	1	Surface	**Percent**		**1.75%**	**98.10%**	**0.15%**		
204	1	Surface	Aluminum	1.48E+04	0.00	0.00	0.00	0.00	0.09%
204	1	Surface	Beryllium	1.36E+00	0.00	0.00	0.00	0.00	0.06%
204	1	Surface	Cadmium	2.73E+00	0.00	0.00	0.00	0.00	0.01%
204	1	Surface	Chromium	7.40E+01	0.00	0.00		0.00	0.02%
204	1	Surface	Iron	4.19E+04	0.00	0.01		0.01	0.33%
204	1	Surface	Vanadium	7.55E+01	0.03	2.78	0.00	2.81	99.49%
204	1	Surface	**Totals**		**0.03**	**2.79**	**0.00**	**2.8**	
204	1	Surface	**Percent**		**1.12%**	**98.87%**	**0.01%**		
204	2	Surface	Aluminum	1.37E+04	0.00	0.00	0.00	0.00	95.09%
204	2	Surface	Chromium	1.80E+01	0.00	0.00		0.00	4.91%
204	2	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
204	2	Surface	**Percent**		**15.47%**	**77.55%**	**6.97%**		
204	3	Surface	Chromium	2.06E+01	0.00	0.00		0.00	100.00%
204	3	Surface	**Totals**		**0.00**	**0.00**		**0.0**	
204	3	Surface	**Percent**		**0.28%**	**99.72%**			
204	4	Surface	Antimony	1.10E+00	0.00	0.00		0.00	92.72%
204	4	Surface	Chromium	2.89E+01	0.00	0.00		0.00	7.28%
204	4	Surface	**Totals**		**0.00**	**0.00**		**0.0**	
204	4	Surface	**Percent**		**2.89%**	**97.11%**			
204	18	Surface	Uranium	1.60E+01	0.00	0.00	0.00	0.00	100.00%
204	18	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
204	18	Surface	**Percent**		**17.47%**	**82.13%**	**0.39%**		
204	23	Surface	Beryllium	1.33E+00	0.00	0.00	0.00	0.00	0.25%
204	23	Surface	Chromium	1.75E+02	0.00	0.00		0.00	0.17%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	23	Surface	Uranium	1.31E+04	0.12	0.56	0.00	0.68	99.58%
204	23	Surface	**Totals**		**0.12**	**0.56**	**0.00**	**0.7**	
204	23	Surface	**Percent**		**17.40%**	**82.20%**	**0.39%**		
211	1	Surface	Chromium	4.48E+01	0.00	0.00		0.00	20.60%
211	1	Surface	Uranium	2.19E+01	0.00	0.00	0.00	0.00	79.40%
211	1	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
211	1	Surface	**Percent**		**13.93%**	**85.75%**	**0.31%**		
212	1	Surface	Arsenic	1.44E+01	0.00	0.00	0.00	0.01	18.05%
212	1	Surface	Beryllium	8.10E-01	0.00	0.00	0.00	0.00	3.75%
212	1	Surface	Chromium	3.58E+01	0.00	0.00		0.00	0.84%
212	1	Surface	Iron	4.14E+04	0.00	0.01		0.01	32.76%
212	1	Surface	Nickel	8.69E+01	0.00	0.01	0.00	0.01	40.33%
212	1	Surface	Uranium	2.30E+01	0.00	0.00	0.00	0.00	4.26%
212	1	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
212	1	Surface	**Percent**		**11.63%**	**87.92%**	**0.45%**		
213	1	Surface	Antimony	8.50E-01	0.00	0.00		0.00	10.58%
213	1	Surface	Chromium	4.78E+01	0.00	0.00		0.00	1.78%
213	1	Surface	Nickel	6.67E+01	0.00	0.01	0.00	0.01	49.09%
213	1	Surface	Silver	1.32E+01	0.00	0.01		0.01	38.55%
213	1	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
213	1	Surface	**Percent**		**1.25%**	**98.49%**	**0.26%**		
213	2	Surface	Chromium	4.48E+01	0.00	0.00		0.00	1.64%
213	2	Surface	Nickel	9.10E+01	0.00	0.01	0.00	0.01	65.90%
213	2	Surface	Silver	1.13E+01	0.00	0.01		0.01	32.45%
213	2	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
213	2	Surface	**Percent**		**1.04%**	**98.62%**	**0.35%**		
214	1	Surface	Antimony	5.70E-01	0.00	0.00		0.00	100.00%
214	1	Surface	**Totals**		**0.00**	**0.00**		**0.0**	
214	1	Surface	**Percent**		**3.09%**	**96.91%**			
215	1	Surface	Antimony	6.80E-01	0.00	0.00		0.00	7.50%
215	1	Surface	Chromium	5.73E+01	0.00	0.00		0.00	1.89%
215	1	Surface	Iron	3.87E+04	0.00	0.01		0.01	42.97%
215	1	Surface	Nickel	7.32E+01	0.00	0.01	0.00	0.01	47.65%
215	1	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
215	1	Surface	**Percent**		**8.27%**	**91.48%**	**0.25%**		
216	1	Surface	Chromium	2.38E+01	0.00	0.00		0.00	100.00%
216	1	Surface	**Totals**		**0.00**	**0.00**		**0.0**	
216	1	Surface	**Percent**		**0.28%**	**99.72%**			
217	1	Surface	Chromium	8.58E+01	0.00	0.00		0.00	1.84%
217	1	Surface	Cobalt	1.96E+01	0.00	0.01	0.00	0.01	33.73%
217	1	Surface	Manganese	7.70E+02	0.00	0.00	0.00	0.00	5.42%
217	1	Surface	Nickel	8.54E+01	0.00	0.01	0.00	0.01	36.28%
217	1	Surface	Silver	1.35E+01	0.00	0.01		0.01	22.73%
217	1	Surface	**Totals**		**0.00**	**0.03**	**0.00**	**0.0**	
217	1	Surface	**Percent**		**6.92%**	**89.15%**	**3.94%**		
217	2	Surface	Antimony	1.70E+00	0.00	0.00		0.00	3.73%
217	2	Surface	Arsenic	1.12E+01	0.00	0.00	0.00	0.00	3.90%
217	2	Surface	Chromium	1.02E+02	0.00	0.00		0.00	0.67%
217	2	Surface	Cobalt	1.74E+01	0.00	0.01	0.00	0.01	9.15%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
217	2	Surface	Iron	3.09E+04	0.00	0.01		0.01	6.84%
217	2	Surface	Manganese	8.44E+02	0.00	0.00	0.00	0.00	1.81%
217	2	Surface	Mercury	8.59E+00	0.00	0.05		0.05	52.97%
217	2	Surface	Nickel	9.74E+01	0.00	0.01	0.00	0.01	12.63%
217	2	Surface	Silver	1.61E+01	0.00	0.01		0.01	8.30%
217	2	Surface	**Totals**		**0.01**	**0.09**	**0.00**	**0.1**	
217	2	Surface	**Percent**		**5.06%**	**93.61%**	**1.32%**		
219	1	Surface	Nickel	6.71E+01	0.00	0.01	0.00	0.01	100.00%
219	1	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
219	1	Surface	**Percent**		**1.05%**	**98.43%**	**0.53%**		
221	1	Surface	Barium	2.21E+02	0.00	0.00	0.00	0.00	11.61%
221	1	Surface	Chromium	7.01E+01	0.00	0.00		0.00	2.58%
221	1	Surface	Iron	1.90E+04	0.00	0.00		0.00	23.50%
221	1	Surface	Nickel	7.93E+01	0.00	0.01	0.00	0.01	57.57%
221	1	Surface	Uranium	1.64E+01	0.00	0.00	0.00	0.00	4.74%
221	1	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
221	1	Surface	**Percent**		**5.73%**	**93.80%**	**0.47%**		
222	1	Surface	Chromium	4.73E+01	0.00	0.00		0.00	2.27%
222	1	Surface	Nickel	9.19E+01	0.00	0.01	0.00	0.01	87.13%
222	1	Surface	Uranium	2.80E+01	0.00	0.00	0.00	0.00	10.60%
222	1	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
222	1	Surface	**Percent**		**2.77%**	**96.73%**	**0.50%**		
224	1	Surface	Chromium	4.49E+01	0.00	0.00		0.00	12.06%
224	1	Surface	Uranium	4.15E+01	0.00	0.00	0.00	0.00	87.94%
224	1	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
224	1	Surface	**Percent**		**15.40%**	**84.25%**	**0.35%**		
225	1	Surface	Chromium	2.55E+01	0.00	0.00		0.00	100.00%
225	1	Surface	**Totals**		**0.00**	**0.00**		**0.0**	
225	1	Surface	**Percent**		**0.28%**	**99.72%**			
226	1	Surface	Antimony	6.60E-01	0.00	0.00		0.00	1.30%
226	1	Surface	Chromium	4.25E+01	0.00	0.00		0.00	0.25%
226	1	Surface	Manganese	6.30E+02	0.00	0.00	0.00	0.00	1.22%
226	1	Surface	Mercury	9.74E+00	0.00	0.06		0.06	54.07%
226	1	Surface	Nickel	2.10E+02	0.00	0.03	0.00	0.03	24.46%
226	1	Surface	Uranium	4.01E+02	0.00	0.02	0.00	0.02	18.69%
226	1	Surface	**Totals**		**0.01**	**0.11**	**0.00**	**0.1**	
226	1	Surface	**Percent**		**4.47%**	**94.64%**	**0.90%**		
227	1	Surface	Beryllium	5.52E-01	0.00	0.00	0.00	0.00	2.19%
227	1	Surface	Chromium	4.71E+01	0.00	0.00		0.00	0.95%
227	1	Surface	Nickel	2.03E+02	0.00	0.03	0.00	0.03	80.72%
227	1	Surface	Uranium	1.02E+02	0.00	0.00	0.00	0.01	16.14%
227	1	Surface	**Totals**		**0.00**	**0.03**	**0.00**	**0.0**	
227	1	Surface	**Percent**		**3.69%**	**95.82%**	**0.49%**		
227	2	Surface	Beryllium	5.32E-01	0.00	0.00	0.00	0.00	0.92%
227	2	Surface	Chromium	5.63E+01	0.00	0.00		0.00	0.50%
227	2	Surface	Cobalt	8.99E+00	0.00	0.00	0.00	0.00	6.34%
227	2	Surface	Mercury	8.41E+00	0.00	0.05		0.05	69.50%
227	2	Surface	Nickel	1.25E+02	0.00	0.02	0.00	0.02	21.70%
227	2	Surface	Uranium	1.51E+01	0.00	0.00	0.00	0.00	1.04%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
227	2	Surface	**Totals**		**0.00**	**0.07**	**0.00**	**0.1**	
227	2	Surface	**Percent**		**2.53%**	**97.23%**	**0.24%**		
228	1	Surface	Antimony	6.30E-01	0.00	0.00		0.00	1.77%
228	1	Surface	Cadmium	3.90E+00	0.00	0.00	0.00	0.00	0.68%
228	1	Surface	Chromium	1.89E+02	0.00	0.00		0.00	1.59%
228	1	Surface	Mercury	9.37E+00	0.00	0.06		0.06	74.10%
228	1	Surface	Nickel	7.92E+01	0.00	0.01	0.00	0.01	13.16%
228	1	Surface	Silver	1.16E+01	0.00	0.01		0.01	7.69%
228	1	Surface	Uranium	1.51E+01	0.00	0.00	0.00	0.00	1.00%
228	1	Surface	**Totals**		**0.00**	**0.08**	**0.00**	**0.1**	
228	1	Surface	**Percent**		**1.68%**	**98.22%**	**0.10%**		
229	1	Surface	Nickel	9.14E+01	0.00	0.01	0.00	0.01	59.48%
229	1	Surface	Uranium	1.56E+02	0.00	0.01	0.00	0.01	40.52%
229	1	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
229	1	Surface	**Percent**		**7.70%**	**91.82%**	**0.47%**		
229	2	Surface	Arsenic	2.12E+01	0.00	0.01	0.00	0.01	29.25%
229	2	Surface	Beryllium	7.90E-01	0.00	0.00	0.00	0.00	4.03%
229	2	Surface	Chromium	2.91E+01	0.00	0.00		0.00	0.75%
229	2	Surface	Nickel	9.93E+01	0.00	0.01	0.00	0.01	50.75%
229	2	Surface	Uranium	7.45E+01	0.00	0.00	0.00	0.00	15.22%
229	2	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
229	2	Surface	**Percent**		**10.80%**	**88.52%**	**0.68%**		
483	1	Surface	Nickel	1.17E+02	0.00	0.02	0.00	0.02	72.36%
483	1	Surface	Silver	1.12E+01	0.00	0.01		0.01	27.64%
483	1	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
483	1	Surface	**Percent**		**1.05%**	**98.57%**	**0.38%**		
486	1	Surface	**Totals**					**0.0**	
486	1	Surface	**Percent**						
487	1	Surface	**Totals**					**0.0**	
487	1	Surface	**Percent**						
488	1	Surface	Uranium	1.48E+01	0.00	0.00	0.00	0.00	100.00%
488	1	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
488	1	Surface	**Percent**		**17.47%**	**82.13%**	**0.39%**		
489	1	Surface	Chromium	4.16E+01	0.00	0.00		0.00	2.60%
489	1	Surface	Nickel	7.88E+01	0.00	0.01	0.00	0.01	97.40%
489	1	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
489	1	Surface	**Percent**		**1.03%**	**98.46%**	**0.51%**		
492	1	Surface	Arsenic	1.47E+01	0.00	0.00	0.00	0.01	0.30%
492	1	Surface	Beryllium	1.04E+01	0.00	0.01	0.00	0.01	0.79%
492	1	Surface	Cadmium	3.14E+00	0.00	0.00	0.00	0.00	0.02%
492	1	Surface	Chromium	1.04E+03	0.00	0.01		0.01	0.40%
492	1	Surface	Uranium	1.77E+03	0.02	0.08	0.00	0.09	5.36%
492	1	Surface	Vanadium	4.32E+01	0.02	1.59	0.00	1.61	93.13%
492	1	Surface	**Totals**		**0.03**	**1.69**	**0.00**	**1.7**	
492	1	Surface	**Percent**		**2.01%**	**97.96%**	**0.03%**		
493	1	Surface	Aluminum	1.44E+04	0.00	0.00	0.00	0.00	0.15%
493	1	Surface	Barium	4.04E+02	0.00	0.00	0.00	0.00	0.24%
493	1	Surface	Beryllium	9.91E-01	0.00	0.00	0.00	0.00	0.08%
493	1	Surface	Chromium	6.61E+01	0.00	0.00		0.00	0.03%

SWMU = solid waste management unit
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Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
493	1	Surface	Cobalt	3.79E+01	0.00	0.02	0.00	0.02	1.28%
493	1	Surface	Manganese	3.55E+03	0.00	0.00	0.00	0.01	0.49%
493	1	Surface	Mercury	2.60E-01	0.00	0.00		0.00	0.10%
493	1	Surface	Nickel	2.13E+02	0.00	0.03	0.00	0.03	1.77%
493	1	Surface	Vanadium	4.05E+01	0.02	1.49	0.00	1.51	95.85%
493	1	Surface	**Totals**		**0.02**	**1.55**	**0.01**	**1.6**	
493	1	Surface	**Percent**		**1.32%**	**98.35%**	**0.33%**		
517	1	Surface	Beryllium	7.39E-01	0.00	0.00	0.00	0.00	4.05%
517	1	Surface	Chromium	4.91E+01	0.00	0.00		0.00	1.37%
517	1	Surface	Nickel	1.72E+02	0.00	0.02	0.00	0.02	94.58%
517	1	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
517	1	Surface	**Percent**		**1.04%**	**98.46%**	**0.51%**		
518	1	Surface	Cobalt	6.80E+00	0.00	0.00	0.00	0.00	21.09%
518	1	Surface	Nickel	1.29E+01	0.00	0.00	0.00	0.00	9.82%
518	1	Surface	Pyrene	3.94E+01	0.00	0.00	0.00	0.00	2.87%
518	1	Surface	Uranium	2.17E+02	0.00	0.01	0.00	0.01	66.22%
518	1	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
518	1	Surface	**Percent**		**15.51%**	**83.67%**	**0.81%**		
520	1	Surface	Chromium	3.17E+01	0.00	0.00		0.00	0.19%
520	1	Surface	Iron	1.56E+04	0.00	0.00		0.00	3.10%
520	1	Surface	Mercury	1.07E+01	0.00	0.07		0.07	59.25%
520	1	Surface	Nickel	2.60E+02	0.00	0.03	0.00	0.03	30.37%
520	1	Surface	Silver	1.30E+01	0.00	0.01		0.01	6.02%
520	1	Surface	Uranium	2.29E+01	0.00	0.00	0.00	0.00	1.07%
520	1	Surface	**Totals**		**0.00**	**0.11**	**0.00**	**0.1**	
520	1	Surface	**Percent**		**1.98%**	**97.85%**	**0.16%**		
520	2	Surface	Beryllium	5.79E-01	0.00	0.00	0.00	0.00	0.63%
520	2	Surface	Chromium	6.67E+01	0.00	0.00		0.00	0.37%
520	2	Surface	Manganese	5.89E+02	0.00	0.00	0.00	0.00	1.07%
520	2	Surface	Mercury	1.19E+01	0.00	0.07		0.07	62.08%
520	2	Surface	Nickel	3.11E+02	0.00	0.04	0.00	0.04	34.11%
520	2	Surface	Uranium	3.96E+01	0.00	0.00	0.00	0.00	1.74%
520	2	Surface	**Totals**		**0.00**	**0.12**	**0.00**	**0.1**	
520	2	Surface	**Percent**		**1.68%**	**97.52%**	**0.80%**		
520	3	Surface	Chromium	3.97E+01	0.00	0.00		0.00	0.61%
520	3	Surface	Copper	1.19E+02	0.00	0.00		0.00	1.08%
520	3	Surface	Nickel	2.65E+02	0.00	0.03	0.00	0.03	80.62%
520	3	Surface	Silver	1.27E+01	0.00	0.01		0.01	15.35%
520	3	Surface	Uranium	1.92E+01	0.00	0.00	0.00	0.00	2.34%
520	3	Surface	**Totals**		**0.00**	**0.04**	**0.00**	**0.0**	
520	3	Surface	**Percent**		**1.61%**	**97.96%**	**0.43%**		
520	4	Surface	Chromium	3.82E+01	0.00	0.00		0.00	0.24%
520	4	Surface	Copper	1.11E+02	0.00	0.00		0.00	0.41%
520	4	Surface	Mercury	9.69E+00	0.00	0.06		0.06	57.67%
520	4	Surface	Nickel	2.82E+02	0.00	0.04	0.00	0.04	35.27%
520	4	Surface	Silver	1.04E+01	0.00	0.01		0.01	5.20%
520	4	Surface	Uranium	2.40E+01	0.00	0.00	0.00	0.00	1.20%
520	4	Surface	**Totals**		**0.00**	**0.10**	**0.00**	**0.1**	
520	4	Surface	**Percent**		**1.55%**	**98.26%**	**0.19%**		

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HI = hazard index

Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
520	5	Surface	Antimony	9.60E-01	0.00	0.00		0.00	9.85%
520	5	Surface	Chromium	3.68E+01	0.00	0.00		0.00	1.13%
520	5	Surface	Nickel	1.47E+02	0.00	0.02	0.00	0.02	89.02%
520	5	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.0**	
520	5	Surface	**Percent**		**1.24%**	**98.29%**	**0.47%**		
531	1	Surface	Antimony	1.00E+00	0.00	0.00		0.00	3.96%
531	1	Surface	Arsenic	4.68E+01	0.00	0.01	0.00	0.02	29.54%
531	1	Surface	Cadmium	3.10E+00	0.00	0.00	0.00	0.00	0.76%
531	1	Surface	Chromium	5.05E+01	0.00	0.00		0.00	0.60%
531	1	Surface	Iron	5.68E+04	0.00	0.01		0.01	22.67%
531	1	Surface	Nickel	1.62E+02	0.00	0.02	0.00	0.02	37.94%
531	1	Surface	Uranium	2.41E+01	0.00	0.00	0.00	0.00	2.25%
531	1	Surface	Zinc	2.45E+03	0.00	0.00		0.00	2.28%
531	1	Surface	**Totals**		**0.01**	**0.05**	**0.00**	**0.1**	
531	1	Surface	**Percent**		**13.09%**	**86.33%**	**0.59%**		
541	1	Surface	Aluminum	1.43E+04	0.00	0.00	0.00	0.00	0.16%
541	1	Surface	Barium	1.28E+02	0.00	0.00	0.00	0.00	0.08%
541	1	Surface	Beryllium	6.98E-01	0.00	0.00	0.00	0.00	0.06%
541	1	Surface	Cadmium	1.68E+00	0.00	0.00	0.00	0.00	0.02%
541	1	Surface	Chromium	8.24E+02	0.00	0.01		0.01	0.37%
541	1	Surface	Iron	1.60E+04	0.00	0.00		0.00	0.24%
541	1	Surface	Mercury	9.81E-02	0.00	0.00		0.00	0.04%
541	1	Surface	Naphthalene	6.55E-01	0.00	0.00	0.00	0.00	0.03%
541	1	Surface	Nickel	1.52E+01	0.00	0.00	0.00	0.00	0.13%
541	1	Surface	Uranium	6.38E+03	0.06	0.27	0.00	0.33	22.50%
541	1	Surface	Vanadium	3.04E+01	0.01	1.12	0.00	1.13	76.36%
541	1	Surface	**Totals**		**0.07**	**1.41**	**0.00**	**1.5**	
541	1	Surface	**Percent**		**4.81%**	**95.05%**	**0.14%**		
561	1	Surface	Antimony	9.36E-01	0.00	0.00		0.00	0.14%
561	1	Surface	Arsenic	1.66E+01	0.00	0.00	0.00	0.01	0.41%
561	1	Surface	Barium	1.40E+02	0.00	0.00	0.00	0.00	0.09%
561	1	Surface	Beryllium	6.85E-01	0.00	0.00	0.00	0.00	0.06%
561	1	Surface	Chromium	8.58E+01	0.00	0.00		0.00	0.04%
561	1	Surface	Cobalt	1.07E+01	0.00	0.00	0.00	0.01	0.39%
561	1	Surface	Iron	2.05E+04	0.00	0.00		0.00	0.32%
561	1	Surface	Manganese	1.61E+03	0.00	0.00	0.00	0.00	0.24%
561	1	Surface	Thallium	3.33E-01	0.00	0.00		0.00	0.05%
561	1	Surface	Uranium	2.65E+02	0.00	0.01	0.00	0.01	0.96%
561	1	Surface	Vanadium	3.76E+01	0.01	1.38	0.00	1.40	97.29%
561	1	Surface	**Totals**		**0.02**	**1.42**	**0.00**	**1.4**	
561	1	Surface	**Percent**		**1.46%**	**98.39%**	**0.16%**		
561	2	Surface	Antimony	5.33E+00	0.00	0.01		0.01	0.85%
561	2	Surface	Arsenic	1.30E+01	0.00	0.00	0.00	0.00	0.33%
561	2	Surface	Beryllium	6.34E-01	0.00	0.00	0.00	0.00	0.06%
561	2	Surface	Cadmium	4.13E-01	0.00	0.00	0.00	0.00	0.00%
561	2	Surface	Chromium	2.88E+02	0.00	0.00		0.00	0.14%
561	2	Surface	Cobalt	1.14E+01	0.00	0.00	0.00	0.01	0.44%
561	2	Surface	Manganese	1.12E+03	0.00	0.00	0.00	0.00	0.17%
561	2	Surface	Thallium	4.09E-01	0.00	0.00		0.00	0.06%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.21. HIs for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
561	2	Surface	Uranium	1.38E+03	0.01	0.06	0.00	0.07	5.22%
561	2	Surface	Vanadium	3.46E+01	0.01	1.27	0.00	1.28	92.73%
561	2	Surface	**Totals**		**0.03**	**1.35**	**0.00**	**1.4**	
561	2	Surface	**Percent**		**2.10%**	**97.76%**	**0.13%**		
562	1	Surface	Uranium	8.73E+01	0.00	0.00	0.00	0.00	100.00%
562	1	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
562	1	Surface	**Percent**		**17.47%**	**82.13%**	**0.39%**		
562	2	Surface	**Totals**					**0.0**	
562	2	Surface	**Percent**						
562	3	Surface	Chromium	3.82E+01	0.00	0.00		0.00	7.59%
562	3	Surface	Uranium	5.89E+01	0.00	0.00	0.00	0.00	92.41%
562	3	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
562	3	Surface	**Percent**		**16.17%**	**83.47%**	**0.36%**		
562	4	Surface	Chromium	4.67E+01	0.00	0.00		0.00	21.98%
562	4	Surface	Uranium	2.10E+01	0.00	0.00	0.00	0.00	78.02%
562	4	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
562	4	Surface	**Percent**		**13.69%**	**86.00%**	**0.31%**		
562	5	Surface	Chromium	1.53E+02	0.00	0.00		0.00	8.53%
562	5	Surface	Uranium	2.08E+02	0.00	0.01	0.00	0.01	91.47%
562	5	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.0**	
562	5	Surface	**Percent**		**16.01%**	**83.63%**	**0.36%**		
563	1	Surface	Cadmium	8.96E-01	0.00	0.00	0.00	0.00	4.37%
563	1	Surface	Chromium	2.85E+02	0.00	0.00		0.00	67.44%
563	1	Surface	Uranium	1.51E+01	0.00	0.00	0.00	0.00	28.18%
563	1	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
563	1	Surface	**Percent**		**5.99%**	**93.70%**	**0.31%**		
563	2	Surface	**Totals**					**0.0**	
563	2	Surface	**Percent**						
564	1	Surface	Arsenic	4.30E+01	0.00	0.01	0.00	0.02	0.50%
564	1	Surface	Beryllium	2.12E+00	0.00	0.00	0.00	0.00	0.09%
564	1	Surface	Cadmium	1.96E+00	0.00	0.00	0.00	0.00	0.01%
564	1	Surface	Chromium	7.49E+01	0.00	0.00		0.00	0.02%
564	1	Surface	Iron	3.66E+04	0.00	0.01		0.01	0.27%
564	1	Surface	Mercury	2.30E-01	0.00	0.00		0.00	0.05%
564	1	Surface	Nickel	2.24E+01	0.00	0.00	0.00	0.00	0.10%
564	1	Surface	Thallium	2.36E+00	0.00	0.00		0.00	0.15%
564	1	Surface	Uranium	5.83E+01	0.00	0.00	0.00	0.00	0.10%
564	1	Surface	Vanadium	8.06E+01	0.03	2.97	0.00	3.00	98.72%
564	1	Surface	**Totals**		**0.04**	**3.00**	**0.00**	**3.0**	
564	1	Surface	**Percent**		**1.26%**	**98.73%**	**0.01%**		
567	3	Surface	Chromium	3.79E+01	0.00	0.00		0.00	100.00%
567	3	Surface	**Totals**		**0.00**	**0.00**		**0.0**	
567	3	Surface	**Percent**		**0.28%**	**99.72%**			
567	4	Surface	Aluminum	1.25E+04	0.00	0.00	0.00	0.00	95.13%
567	4	Surface	Chromium	1.63E+01	0.00	0.00		0.00	4.87%
567	4	Surface	**Totals**		**0.00**	**0.00**	**0.00**	**0.0**	
567	4	Surface	**Percent**		**15.48%**	**77.54%**	**6.98%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.22. HIs for the Future Industrial Worker

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
1	1	Surface	Beryllium	3.89E+00	0.00	0.09	0.00	0.09	95.58%
1	1	Surface	Cadmium	1.10E+00	0.00	0.00	0.00	0.00	2.83%
1	1	Surface	Chromium	1.28E+01	0.00	0.00		0.00	1.60%
1	1	Surface	**Totals**		**0.00**	**0.09**	**0.00**	**0.09**	
1	1	Surface	**Percent**		**1.58%**	**98.07%**	**0.35%**		
1	2	Surface	Beryllium	8.23E+00	0.00	0.19	0.00	0.19	0.78%
1	2	Surface	Cadmium	6.46E+00	0.00	0.01	0.00	0.02	0.06%
1	2	Surface	Chromium	2.01E+02	0.00	0.02		0.02	0.10%
1	2	Surface	Copper	1.81E+02	0.00	0.01		0.01	0.05%
1	2	Surface	Mercury	5.94E+00	0.01	0.65		0.66	2.69%
1	2	Surface	Nickel	5.75E+01	0.00	0.13	0.00	0.13	0.55%
1	2	Surface	Silver	3.31E+01	0.00	0.30		0.31	1.26%
1	2	Surface	Thallium	3.70E-01	0.00	0.01		0.01	0.05%
1	2	Surface	Vanadium	3.49E+01	0.24	22.90	0.00	23.15	94.45%
1	2	Surface	**Totals**		**0.27**	**24.24**	**0.00**	**24.51**	
1	2	Surface	**Percent**		**1.09%**	**98.90%**	**0.01%**		
1	3	Surface	Chromium	1.45E+01	0.00	0.00		0.00	100.00%
1	3	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
1	3	Surface	**Percent**		**0.28%**	**99.72%**			
1	4	Surface	Beryllium	7.25E-01	0.00	0.02	0.00	0.02	12.29%
1	4	Surface	Chromium	9.30E+01	0.00	0.01		0.01	8.01%
1	4	Surface	Nickel	4.69E+01	0.00	0.11	0.00	0.11	79.70%
1	4	Surface	**Totals**		**0.00**	**0.14**	**0.00**	**0.14**	
1	4	Surface	**Percent**		**0.99%**	**98.57%**	**0.45%**		
1	5	Surface	Beryllium	8.30E+00	0.00	0.19	0.00	0.19	66.36%
1	5	Surface	Cadmium	1.20E+00	0.00	0.00	0.00	0.00	1.00%
1	5	Surface	Nickel	4.07E+01	0.00	0.09	0.00	0.10	32.63%
1	5	Surface	**Totals**		**0.00**	**0.29**	**0.00**	**0.29**	
1	5	Surface	**Percent**		**1.24%**	**98.39%**	**0.37%**		
12	1	Surface	Aluminum	8.19E+03	0.00	0.02	0.00	0.02	0.12%
12	1	Surface	Antimony	5.04E-01	0.00	0.02		0.02	0.10%
12	1	Surface	Arsenic	1.34E+01	0.02	0.06	0.00	0.08	0.41%
12	1	Surface	Barium	1.04E+02	0.00	0.02	0.00	0.02	0.08%
12	1	Surface	Beryllium	6.72E+00	0.00	0.15	0.00	0.16	0.75%
12	1	Surface	Cadmium	1.02E+00	0.00	0.00	0.00	0.00	0.01%
12	1	Surface	Chromium	6.33E+01	0.00	0.01		0.01	0.04%
12	1	Surface	Cobalt	9.16E+00	0.01	0.07	0.00	0.09	0.42%
12	1	Surface	Iron	3.01E+04	0.02	0.10		0.12	0.57%
12	1	Surface	Manganese	1.01E+03	0.00	0.01	0.02	0.04	0.19%
12	1	Surface	Mercury	8.80E+00	0.01	0.96		0.98	4.70%
12	1	Surface	Molybdenum	1.74E+01	0.00	0.01		0.01	0.05%
12	1	Surface	Nickel	7.74E+01	0.00	0.18	0.00	0.18	0.87%
12	1	Surface	Silver	1.10E+01	0.00	0.10		0.10	0.49%
12	1	Surface	Thallium	1.03E+00	0.01	0.03		0.04	0.17%
12	1	Surface	Uranium	3.76E+02	0.06	0.29	0.00	0.35	1.68%
12	1	Surface	Vanadium	2.80E+01	0.20	18.42	0.00	18.61	89.36%
12	1	Surface	**Totals**		**0.35**	**20.45**	**0.03**	**20.83**	
12	1	Surface	**Percent**		**1.68%**	**98.17%**	**0.15%**		
13	1	Surface	**Totals**					**0.00**	
13	1	Surface	**Percent**						
13	4	Surface	**Totals**					**0.00**	
13	4	Surface	**Percent**						
13	5	Surface	Aluminum	1.13E+04	0.01	0.03	0.00	0.03	7.46%
13	5	Surface	Antimony	8.20E-01	0.00	0.03		0.03	7.14%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	5	Surface	Cadmium	1.20E+00	0.00	0.00	0.00	0.00	0.64%
13	5	Surface	Chromium	1.51E+01	0.00	0.00		0.00	0.39%
13	5	Surface	Nickel	1.17E+02	0.00	0.27	0.00	0.27	59.90%
13	5	Surface	Uranium	1.19E+02	0.02	0.09	0.00	0.11	24.46%
13	5	Surface	**Totals**		**0.03**	**0.42**	**0.00**	**0.45**	
13	5	Surface	**Percent**		**6.47%**	**92.55%**	**0.99%**		
13	6	Surface	**Totals**					**0.00**	
13	6	Surface	**Percent**						
13	9	Surface	Uranium	1.82E+01	0.00	0.01	0.00	0.02	100.00%
13	9	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.02**	
13	9	Surface	**Percent**		**17.47%**	**82.13%**	**0.39%**		
13	11	Surface	**Totals**					**0.00**	
13	11	Surface	**Percent**						
14	1	Surface	Arsenic	1.10E+01	0.02	0.05	0.00	0.07	9.88%
14	1	Surface	Chromium	6.36E+01	0.00	0.01		0.01	1.07%
14	1	Surface	Iron	1.89E+04	0.01	0.06		0.08	10.72%
14	1	Surface	Nickel	1.40E+02	0.00	0.32	0.00	0.33	46.58%
14	1	Surface	Silver	1.67E+01	0.00	0.15		0.16	22.14%
14	1	Surface	Uranium	7.21E+01	0.01	0.06	0.00	0.07	9.61%
14	1	Surface	**Totals**		**0.05**	**0.65**	**0.00**	**0.70**	
14	1	Surface	**Percent**		**6.84%**	**92.76%**	**0.40%**		
14	2	Surface	Antimony	3.70E+00	0.00	0.14		0.15	6.19%
14	2	Surface	Arsenic	1.45E+01	0.02	0.07	0.00	0.09	3.87%
14	2	Surface	Beryllium	7.10E-01	0.00	0.02	0.00	0.02	0.70%
14	2	Surface	Chromium	6.65E+01	0.00	0.01		0.01	0.33%
14	2	Surface	Copper	1.76E+02	0.00	0.01		0.01	0.52%
14	2	Surface	Iron	3.72E+04	0.03	0.12		0.15	6.26%
14	2	Surface	Manganese	1.44E+03	0.01	0.02	0.03	0.06	2.36%
14	2	Surface	Mercury	2.67E-01	0.00	0.03		0.03	1.25%
14	2	Surface	Nickel	6.78E+02	0.02	1.56	0.01	1.58	66.94%
14	2	Surface	Uranium	2.93E+02	0.05	0.22	0.00	0.27	11.57%
14	2	Surface	**Totals**		**0.13**	**2.20**	**0.04**	**2.37**	
14	2	Surface	**Percent**		**5.35%**	**92.86%**	**1.79%**		
14	3	Surface	Arsenic	1.30E+01	0.02	0.06	0.00	0.08	3.06%
14	3	Surface	Chromium	7.01E+01	0.00	0.01		0.01	0.31%
14	3	Surface	Copper	1.29E+02	0.00	0.01		0.01	0.34%
14	3	Surface	Iron	3.48E+04	0.02	0.11		0.14	5.19%
14	3	Surface	Manganese	1.06E+03	0.00	0.01	0.02	0.04	1.53%
14	3	Surface	Mercury	7.48E+00	0.01	0.82		0.83	31.11%
14	3	Surface	Molybdenum	2.21E+01	0.00	0.01		0.01	0.46%
14	3	Surface	Nickel	5.76E+02	0.01	1.33	0.01	1.35	50.40%
14	3	Surface	Uranium	2.18E+02	0.04	0.17	0.00	0.20	7.60%
14	3	Surface	**Totals**		**0.11**	**2.53**	**0.03**	**2.67**	
14	3	Surface	**Percent**		**4.29%**	**94.50%**	**1.20%**		
14	4	Surface	Antimony	4.30E+00	0.01	0.16		0.17	6.40%
14	4	Surface	Arsenic	1.33E+01	0.02	0.06	0.00	0.08	3.15%
14	4	Surface	Chromium	7.20E+01	0.00	0.01		0.01	0.32%
14	4	Surface	Copper	3.54E+02	0.00	0.02		0.02	0.93%
14	4	Surface	Iron	3.88E+04	0.03	0.13		0.15	5.82%
14	4	Surface	Mercury	4.87E-01	0.00	0.05		0.05	2.04%
14	4	Surface	Nickel	7.31E+02	0.02	1.68	0.01	1.71	64.20%
14	4	Surface	Silver	1.17E+01	0.00	0.11		0.11	4.09%
14	4	Surface	Uranium	3.72E+02	0.06	0.28	0.00	0.35	13.05%
14	4	Surface	**Totals**		**0.14**	**2.51**	**0.01**	**2.66**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
14	4	Surface	**Percent**		**5.22%**	**94.35%**	**0.43%**		
14	5	Surface	Antimony	2.30E+00	0.00	0.09		0.09	2.85%
14	5	Surface	Arsenic	1.31E+01	0.02	0.06	0.00	0.08	2.58%
14	5	Surface	Cadmium	3.90E+00	0.00	0.01	0.00	0.01	0.30%
14	5	Surface	Chromium	4.70E+01	0.00	0.01		0.01	0.17%
14	5	Surface	Cobalt	1.40E+01	0.02	0.11	0.00	0.13	4.16%
14	5	Surface	Copper	1.34E+02	0.00	0.01		0.01	0.29%
14	5	Surface	Iron	3.92E+04	0.03	0.13		0.16	4.89%
14	5	Surface	Manganese	8.28E+02	0.00	0.01	0.02	0.03	1.00%
14	5	Surface	Mercury	1.09E+01	0.02	1.20		1.22	38.10%
14	5	Surface	Nickel	4.61E+02	0.01	1.06	0.01	1.08	33.78%
14	5	Surface	Silver	1.29E+01	0.00	0.12		0.12	3.75%
14	5	Surface	Thallium	4.10E-01	0.00	0.01		0.01	0.45%
14	5	Surface	Uranium	2.62E+02	0.04	0.20	0.00	0.24	7.67%
14	5	Surface	**Totals**		**0.16**	**3.01**	**0.03**	**3.19**	
14	5	Surface	**Percent**		**4.90%**	**94.19%**	**0.90%**		
14	6	Surface	Antimony	2.70E+00	0.00	0.10		0.11	3.43%
14	6	Surface	Cadmium	8.40E-01	0.00	0.00	0.00	0.00	0.07%
14	6	Surface	Chromium	4.46E+02	0.00	0.05		0.05	1.70%
14	6	Surface	Copper	1.22E+02	0.00	0.01		0.01	0.27%
14	6	Surface	Mercury	3.47E-01	0.00	0.04		0.04	1.24%
14	6	Surface	Nickel	9.63E+02	0.02	2.22	0.01	2.25	72.37%
14	6	Surface	Silver	1.19E+01	0.00	0.11		0.11	3.55%
14	6	Surface	Uranium	5.79E+02	0.09	0.44	0.00	0.54	17.37%
14	6	Surface	**Totals**		**0.13**	**2.97**	**0.01**	**3.11**	
14	6	Surface	**Percent**		**4.02%**	**95.53%**	**0.45%**		
14	7	Surface	Antimony	7.50E-01	0.00	0.03		0.03	0.71%
14	7	Surface	Arsenic	1.13E+01	0.02	0.05	0.00	0.07	1.72%
14	7	Surface	Cadmium	2.70E+00	0.00	0.00	0.00	0.01	0.16%
14	7	Surface	Chromium	6.46E+01	0.00	0.01		0.01	0.18%
14	7	Surface	Mercury	7.82E+00	0.01	0.86		0.87	20.93%
14	7	Surface	Nickel	1.22E+03	0.03	2.81	0.02	2.86	68.81%
14	7	Surface	Uranium	3.33E+02	0.05	0.26	0.00	0.31	7.48%
14	7	Surface	**Totals**		**0.12**	**4.02**	**0.02**	**4.15**	
14	7	Surface	**Percent**		**2.83%**	**96.75%**	**0.42%**		
14	8	Surface	Antimony	6.10E-01	0.00	0.02		0.02	0.82%
14	8	Surface	Arsenic	1.14E+01	0.02	0.05	0.00	0.07	2.43%
14	8	Surface	Chromium	4.60E+01	0.00	0.01		0.01	0.18%
14	8	Surface	Mercury	7.90E+00	0.01	0.87		0.88	29.73%
14	8	Surface	Nickel	6.73E+02	0.02	1.55	0.01	1.57	53.21%
14	8	Surface	Silver	9.63E+00	0.00	0.09		0.09	3.03%
14	8	Surface	Uranium	3.35E+02	0.05	0.26	0.00	0.31	10.60%
14	8	Surface	**Totals**		**0.10**	**2.84**	**0.01**	**2.95**	
14	8	Surface	**Percent**		**3.53%**	**96.12%**	**0.35%**		
14	9	Surface	Antimony	2.00E+00	0.00	0.08		0.08	2.04%
14	9	Surface	Arsenic	1.40E+01	0.02	0.06	0.00	0.09	2.29%
14	9	Surface	Cadmium	9.40E-01	0.00	0.00	0.00	0.00	0.06%
14	9	Surface	Chromium	4.64E+01	0.00	0.01		0.01	0.14%
14	9	Surface	Mercury	1.13E+00	0.00	0.12		0.13	3.24%
14	9	Surface	Nickel	9.43E+02	0.02	2.17	0.01	2.20	56.93%
14	9	Surface	Uranium	1.46E+03	0.24	1.12	0.01	1.37	35.29%
14	9	Surface	**Totals**		**0.29**	**3.56**	**0.02**	**3.87**	
14	9	Surface	**Percent**		**7.48%**	**92.05%**	**0.47%**		
14	10	Surface	Antimony	9.40E-01	0.00	0.04		0.04	0.79%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
14	10	Surface	Arsenic	1.12E+01	0.02	0.05	0.00	0.07	1.51%
14	10	Surface	Chromium	4.19E+01	0.00	0.00		0.00	0.11%
14	10	Surface	Copper	1.41E+02	0.00	0.01		0.01	0.21%
14	10	Surface	Iron	2.75E+04	0.02	0.09		0.11	2.33%
14	10	Surface	Mercury	2.51E+01	0.04	2.75		2.79	59.42%
14	10	Surface	Nickel	6.00E+02	0.01	1.38	0.01	1.40	29.89%
14	10	Surface	Uranium	2.88E+02	0.05	0.22	0.00	0.27	5.74%
14	10	Surface	**Totals**		**0.14**	**4.54**	**0.01**	**4.69**	
14	10	Surface	**Percent**		**3.05%**	**96.75%**	**0.20%**		
15	1	Surface	Antimony	6.40E-01	0.00	0.02		0.03	3.65%
15	1	Surface	Arsenic	1.24E+01	0.02	0.06	0.00	0.08	11.24%
15	1	Surface	Chromium	5.61E+01	0.00	0.01		0.01	0.96%
15	1	Surface	Copper	1.95E+02	0.00	0.01		0.01	1.96%
15	1	Surface	Iron	2.95E+04	0.02	0.10		0.12	16.95%
15	1	Surface	Nickel	1.33E+02	0.00	0.30	0.00	0.31	44.64%
15	1	Surface	Silver	1.23E+01	0.00	0.11		0.11	16.46%
15	1	Surface	Uranium	3.09E+01	0.01	0.02	0.00	0.03	4.16%
15	1	Surface	**Totals**		**0.05**	**0.64**	**0.00**	**0.69**	
15	1	Surface	**Percent**		**7.71%**	**91.91%**	**0.38%**		
15	2	Surface	Antimony	6.60E-01	0.00	0.03		0.03	1.37%
15	2	Surface	Arsenic	1.63E+01	0.03	0.07	0.00	0.10	5.36%
15	2	Surface	Chromium	5.90E+01	0.00	0.01		0.01	0.37%
15	2	Surface	Iron	3.89E+04	0.03	0.13		0.15	8.11%
15	2	Surface	Mercury	9.33E+00	0.02	1.02		1.04	54.25%
15	2	Surface	Nickel	1.97E+02	0.00	0.45	0.00	0.46	24.11%
15	2	Surface	Uranium	1.32E+02	0.02	0.10	0.00	0.12	6.43%
15	2	Surface	**Totals**		**0.10**	**1.81**	**0.00**	**1.91**	
15	2	Surface	**Percent**		**5.03%**	**94.76%**	**0.21%**		
15	3	Surface	Antimony	2.45E+01	0.03	0.94		0.97	22.16%
15	3	Surface	Arsenic	2.60E+01	0.04	0.12	0.00	0.16	3.75%
15	3	Surface	Beryllium	7.60E-01	0.00	0.02	0.00	0.02	0.40%
15	3	Surface	Cadmium	1.19E+01	0.01	0.02	0.00	0.03	0.66%
15	3	Surface	Chromium	7.53E+01	0.00	0.01		0.01	0.20%
15	3	Surface	Cobalt	3.41E+01	0.06	0.26	0.01	0.32	7.39%
15	3	Surface	Copper	1.40E+03	0.02	0.08		0.10	2.23%
15	3	Surface	Iron	9.20E+04	0.06	0.30		0.37	8.38%
15	3	Surface	Manganese	1.60E+03	0.01	0.02	0.04	0.06	1.42%
15	3	Surface	Mercury	2.74E+00	0.00	0.30		0.30	6.96%
15	3	Surface	Molybdenum	1.70E+01	0.00	0.01		0.01	0.22%
15	3	Surface	Nickel	7.57E+02	0.02	1.74	0.01	1.77	40.41%
15	3	Surface	Selenium	2.65E+01	0.00	0.01	0.00	0.01	0.34%
15	3	Surface	Silver	3.20E+00	0.00	0.03		0.03	0.68%
15	3	Surface	Uranium	2.16E+02	0.04	0.17	0.00	0.20	4.61%
15	3	Surface	Zinc	8.79E+02	0.00	0.01		0.01	0.19%
15	3	Surface	**Totals**		**0.29**	**4.03**	**0.06**	**4.37**	
15	3	Surface	**Percent**		**6.52%**	**92.22%**	**1.26%**		
15	4	Surface	Antimony	7.40E+00	0.01	0.28		0.29	4.87%
15	4	Surface	Arsenic	3.47E+01	0.06	0.16	0.00	0.22	3.63%
15	4	Surface	Cadmium	1.40E+00	0.00	0.00	0.00	0.00	0.06%
15	4	Surface	Chromium	1.02E+02	0.00	0.01		0.01	0.20%
15	4	Surface	Copper	7.05E+02	0.01	0.04		0.05	0.82%
15	4	Surface	Iron	7.81E+04	0.05	0.26		0.31	5.17%
15	4	Surface	Manganese	1.54E+03	0.01	0.02	0.03	0.06	0.99%
15	4	Surface	Mercury	1.41E+01	0.02	1.54		1.57	26.03%

SWMU = solid waste management unit
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Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	4	Surface	Nickel	1.37E+03	0.03	3.16	0.02	3.21	53.37%
15	4	Surface	Silver	1.46E+01	0.00	0.13		0.14	2.26%
15	4	Surface	Uranium	1.57E+02	0.03	0.12	0.00	0.15	2.43%
15	4	Surface	Zinc	1.19E+03	0.00	0.01		0.01	0.18%
15	4	Surface	**Totals**		**0.22**	**5.74**	**0.05**	**6.01**	
15	4	Surface	**Percent**		**3.66%**	**95.44%**	**0.90%**		
15	5	Surface	Antimony	3.10E+00	0.00	0.12		0.12	5.62%
15	5	Surface	Arsenic	1.28E+01	0.02	0.06	0.00	0.08	3.69%
15	5	Surface	Cadmium	1.50E+00	0.00	0.00	0.00	0.00	0.17%
15	5	Surface	Chromium	4.28E+01	0.00	0.01		0.01	0.23%
15	5	Surface	Copper	5.63E+03	0.07	0.32		0.39	17.99%
15	5	Surface	Mercury	3.38E-01	0.00	0.04		0.04	1.72%
15	5	Surface	Nickel	5.10E+02	0.01	1.17	0.01	1.19	54.60%
15	5	Surface	Silver	1.46E+01	0.00	0.13		0.14	6.22%
15	5	Surface	Uranium	2.13E+02	0.03	0.16	0.00	0.20	9.12%
15	5	Surface	Zinc	1.52E+03	0.00	0.01		0.01	0.65%
15	5	Surface	**Totals**		**0.15**	**2.03**	**0.01**	**2.18**	
15	5	Surface	**Percent**		**6.69%**	**92.94%**	**0.37%**		
15	6	Surface	Antimony	5.10E+00	0.01	0.20		0.20	12.88%
15	6	Surface	Arsenic	1.24E+01	0.02	0.06	0.00	0.08	5.00%
15	6	Surface	Cadmium	1.50E+00	0.00	0.00	0.00	0.00	0.23%
15	6	Surface	Chromium	5.80E+01	0.00	0.01		0.01	0.44%
15	6	Surface	Cobalt	1.62E+01	0.03	0.12	0.00	0.15	9.81%
15	6	Surface	Copper	4.23E+02	0.01	0.02		0.03	1.88%
15	6	Surface	Iron	3.15E+04	0.02	0.10		0.13	8.02%
15	6	Surface	Mercury	4.10E-01	0.00	0.04		0.05	2.91%
15	6	Surface	Nickel	3.24E+02	0.01	0.75	0.00	0.76	48.35%
15	6	Surface	Silver	1.09E+01	0.00	0.10		0.10	6.48%
15	6	Surface	Uranium	6.70E+01	0.01	0.05	0.00	0.06	4.00%
15	6	Surface	**Totals**		**0.10**	**1.46**	**0.01**	**1.57**	
15	6	Surface	**Percent**		**6.48%**	**92.99%**	**0.53%**		
15	7	Surface	Antimony	7.50E-01	0.00	0.03		0.03	1.60%
15	7	Surface	Arsenic	1.61E+01	0.03	0.07	0.00	0.10	5.47%
15	7	Surface	Cadmium	1.00E+00	0.00	0.00	0.00	0.00	0.13%
15	7	Surface	Chromium	7.87E+01	0.00	0.01		0.01	0.50%
15	7	Surface	Copper	7.33E+02	0.01	0.04		0.05	2.76%
15	7	Surface	Iron	3.42E+04	0.02	0.11		0.14	7.35%
15	7	Surface	Manganese	1.11E+03	0.00	0.01	0.02	0.04	2.31%
15	7	Surface	Nickel	5.59E+02	0.01	1.28	0.01	1.30	70.42%
15	7	Surface	Silver	1.29E+01	0.00	0.12		0.12	6.45%
15	7	Surface	Uranium	5.39E+01	0.01	0.04	0.00	0.05	2.71%
15	7	Surface	Zinc	5.87E+02	0.00	0.00		0.01	0.29%
15	7	Surface	**Totals**		**0.09**	**1.73**	**0.03**	**1.85**	
15	7	Surface	**Percent**		**4.81%**	**93.43%**	**1.77%**		
15	8	Surface	Antimony	5.40E+00	0.01	0.21		0.21	10.04%
15	8	Surface	Arsenic	1.17E+01	0.02	0.05	0.00	0.07	3.45%
15	8	Surface	Chromium	7.74E+01	0.00	0.01		0.01	0.43%
15	8	Surface	Copper	1.62E+02	0.00	0.01		0.01	0.53%
15	8	Surface	Iron	2.83E+04	0.02	0.09		0.11	5.29%
15	8	Surface	Mercury	1.00E+01	0.02	1.10		1.12	52.44%
15	8	Surface	Nickel	1.82E+02	0.00	0.42	0.00	0.42	19.95%
15	8	Surface	Silver	1.36E+01	0.00	0.12		0.13	5.92%
15	8	Surface	Uranium	4.46E+01	0.01	0.03	0.00	0.04	1.95%
15	8	Surface	**Totals**		**0.08**	**2.05**	**0.00**	**2.13**	

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Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	8	Surface	**Percent**		**3.61%**	**96.24%**	**0.15%**		
15	9	Surface	Arsenic	1.10E+01	0.02	0.05	0.00	0.07	9.66%
15	9	Surface	Chromium	9.56E+01	0.00	0.01		0.01	1.57%
15	9	Surface	Copper	1.36E+02	0.00	0.01		0.01	1.31%
15	9	Surface	Iron	2.76E+04	0.02	0.09		0.11	15.26%
15	9	Surface	Nickel	1.49E+02	0.00	0.34	0.00	0.35	48.31%
15	9	Surface	Silver	1.54E+01	0.00	0.14		0.14	19.91%
15	9	Surface	Uranium	3.07E+01	0.01	0.02	0.00	0.03	3.97%
15	9	Surface	**Totals**		**0.05**	**0.67**	**0.00**	**0.72**	
15	9	Surface	**Percent**		**6.82%**	**92.79%**	**0.38%**		
15	10	Surface	Chromium	3.55E+01	0.00	0.00		0.00	0.30%
15	10	Surface	Mercury	7.84E+00	0.01	0.86		0.87	63.28%
15	10	Surface	Nickel	1.46E+02	0.00	0.34	0.00	0.34	24.72%
15	10	Surface	Silver	1.08E+01	0.00	0.10		0.10	7.30%
15	10	Surface	Uranium	6.47E+01	0.01	0.05	0.00	0.06	4.39%
15	10	Surface	**Totals**		**0.03**	**1.35**	**0.00**	**1.38**	
15	10	Surface	**Percent**		**2.03%**	**97.82%**	**0.15%**		
16	1	Surface	**Totals**					**0.00**	
16	1	Surface	**Percent**						
16	2	Surface	Beryllium	8.40E-01	0.00	0.02	0.00	0.02	27.01%
16	2	Surface	Chromium	2.04E+01	0.00	0.00		0.00	3.33%
16	2	Surface	Nickel	2.16E+01	0.00	0.05	0.00	0.05	69.66%
16	2	Surface	**Totals**		**0.00**	**0.07**	**0.00**	**0.07**	
16	2	Surface	**Percent**		**1.02%**	**98.55%**	**0.43%**		
16	3	Surface	**Totals**					**0.00**	
16	3	Surface	**Percent**						
16	4	Surface	**Totals**					**0.00**	
16	4	Surface	**Percent**						
19	1	Surface	Beryllium	1.10E+00	0.00	0.03	0.00	0.03	40.86%
19	1	Surface	Cadmium	1.20E+00	0.00	0.00	0.00	0.00	4.67%
19	1	Surface	Thallium	9.80E-01	0.01	0.03		0.03	54.47%
19	1	Surface	**Totals**		**0.01**	**0.06**	**0.00**	**0.06**	
19	1	Surface	**Percent**		**10.92%**	**88.77%**	**0.31%**		
26	1	Surface	Arsenic	1.29E+01	0.02	0.06	0.00	0.08	28.63%
26	1	Surface	Beryllium	6.69E-01	0.00	0.02	0.00	0.02	5.50%
26	1	Surface	Cadmium	1.99E+00	0.00	0.00	0.00	0.00	1.71%
26	1	Surface	Chromium	1.90E+01	0.00	0.00		0.00	0.79%
26	1	Surface	Mercury	1.66E-01	0.00	0.02		0.02	6.51%
26	1	Surface	Nickel	1.76E+01	0.00	0.04	0.00	0.04	14.49%
26	1	Surface	Uranium	1.29E+02	0.02	0.10	0.00	0.12	42.36%
26	1	Surface	**Totals**		**0.04**	**0.24**	**0.00**	**0.28**	
26	1	Surface	**Percent**		**15.46%**	**83.87%**	**0.67%**		
26	2	Surface	Aluminum	2.17E+04	0.01	0.05	0.00	0.07	0.28%
26	2	Surface	Arsenic	4.72E+01	0.08	0.22	0.00	0.30	1.27%
26	2	Surface	Barium	1.49E+02	0.00	0.02	0.00	0.03	0.11%
26	2	Surface	Beryllium	9.69E+00	0.00	0.22	0.00	0.23	0.96%
26	2	Surface	Cadmium	2.38E+00	0.00	0.00	0.00	0.01	0.02%
26	2	Surface	Chromium	3.90E+01	0.00	0.00		0.00	0.02%
26	2	Surface	Cobalt	5.20E+01	0.08	0.40	0.01	0.49	2.10%
26	2	Surface	Copper	1.31E+02	0.00	0.01		0.01	0.04%
26	2	Surface	Iron	5.32E+04	0.04	0.17		0.21	0.90%
26	2	Surface	Nickel	1.13E+02	0.00	0.26	0.00	0.26	1.13%
26	2	Surface	Thallium	1.39E+01	0.09	0.40		0.48	2.07%
26	2	Surface	Uranium	6.46E+02	0.11	0.50	0.00	0.60	2.57%

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Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
26	2	Surface	Vanadium	3.13E+01	0.22	20.53	0.00	20.75	88.53%
26	2	Surface	**Totals**		**0.63**	**22.79**	**0.02**	**23.44**	
26	2	Surface	**Percent**		**2.67%**	**97.23%**	**0.10%**		
26	3	Surface	Aluminum	9.55E+03	0.00	0.02	0.00	0.03	0.11%
26	3	Surface	Antimony	1.40E+00	0.00	0.05		0.06	0.21%
26	3	Surface	Arsenic	5.09E+01	0.08	0.23	0.00	0.32	1.23%
26	3	Surface	Barium	4.48E+02	0.00	0.07	0.00	0.08	0.29%
26	3	Surface	Beryllium	2.54E+00	0.00	0.06	0.00	0.06	0.23%
26	3	Surface	Cadmium	2.34E+00	0.00	0.00	0.00	0.01	0.02%
26	3	Surface	Chromium	3.25E+01	0.00	0.00		0.00	0.01%
26	3	Surface	Cobalt	1.21E+01	0.02	0.09	0.00	0.11	0.44%
26	3	Surface	Mercury	3.87E-01	0.00	0.04		0.04	0.16%
26	3	Surface	Naphthalene	1.32E+00	0.00	0.00	0.02	0.02	0.06%
26	3	Surface	Nickel	2.97E+01	0.00	0.07	0.00	0.07	0.27%
26	3	Surface	Silver	2.59E+01	0.00	0.24		0.24	0.92%
26	3	Surface	Thallium	6.00E-01	0.00	0.02		0.02	0.08%
26	3	Surface	Uranium	9.88E+01	0.02	0.08	0.00	0.09	0.35%
26	3	Surface	Vanadium	3.77E+01	0.26	24.75	0.00	25.01	95.62%
26	3	Surface	**Totals**		**0.40**	**25.73**	**0.03**	**26.16**	
26	3	Surface	**Percent**		**1.53%**	**98.37%**	**0.10%**		
26	4	Surface	Aluminum	1.07E+04	0.01	0.02	0.00	0.03	2.11%
26	4	Surface	Antimony	6.00E-01	0.00	0.02		0.02	1.56%
26	4	Surface	Beryllium	6.91E-01	0.00	0.02	0.00	0.02	1.06%
26	4	Surface	Cadmium	1.99E+00	0.00	0.00	0.00	0.00	0.32%
26	4	Surface	Chromium	8.57E+01	0.00	0.01		0.01	0.67%
26	4	Surface	Copper	1.16E+02	0.00	0.01		0.01	0.53%
26	4	Surface	Mercury	3.07E+00	0.01	0.34		0.34	22.42%
26	4	Surface	Nickel	7.54E+01	0.00	0.17	0.00	0.18	11.57%
26	4	Surface	Uranium	9.75E+02	0.16	0.75	0.00	0.91	59.77%
26	4	Surface	**Totals**		**0.17**	**1.34**	**0.01**	**1.52**	
26	4	Surface	**Percent**		**11.46%**	**88.08%**	**0.47%**		
47	1	Surface	Aluminum	1.50E+04	0.01	0.03	0.00	0.05	4.89%
47	1	Surface	Antimony	9.00E-01	0.00	0.03		0.04	3.85%
47	1	Surface	Arsenic	4.52E+01	0.07	0.21	0.00	0.28	30.84%
47	1	Surface	Beryllium	7.00E-01	0.00	0.02	0.00	0.02	1.77%
47	1	Surface	Cadmium	4.25E+00	0.00	0.01	0.00	0.01	1.12%
47	1	Surface	Chromium	5.39E+01	0.00	0.01		0.01	0.69%
47	1	Surface	Cobalt	1.43E+01	0.02	0.11	0.00	0.14	14.68%
47	1	Surface	Iron	2.95E+04	0.02	0.10		0.12	12.72%
47	1	Surface	Naphthalene	1.90E+00	0.00	0.00	0.02	0.02	2.65%
47	1	Surface	Nickel	8.25E+01	0.00	0.19	0.00	0.19	20.86%
47	1	Surface	Pyrene	1.11E+02	0.00	0.02	0.00	0.02	2.66%
47	1	Surface	Uranium	3.23E+01	0.01	0.02	0.00	0.03	3.27%
47	1	Surface	**Totals**		**0.14**	**0.75**	**0.04**	**0.92**	
47	1	Surface	**Percent**		**14.88%**	**81.33%**	**3.79%**		
74	1	Surface	**Totals**					**0.00**	
74	1	Surface	**Percent**						
75	1	Surface	Cadmium	1.10E+00	0.00	0.00	0.00	0.00	1.12%
75	1	Surface	Chromium	7.17E+01	0.00	0.01		0.01	3.53%
75	1	Surface	Copper	3.15E+02	0.00	0.02		0.02	9.14%
75	1	Surface	Nickel	8.87E+01	0.00	0.20	0.00	0.21	86.22%
75	1	Surface	**Totals**		**0.01**	**0.23**	**0.00**	**0.24**	
75	1	Surface	**Percent**		**2.74%**	**96.76%**	**0.50%**		
76	1	Surface	Barium	2.69E+02	0.00	0.04	0.00	0.05	100.00%

SWMU = solid waste management unit
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Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
76	1	Surface	**Totals**		**0.00**	**0.04**	**0.00**	**0.05**	
76	1	Surface	**Percent**		**1.45%**	**97.24%**	**1.31%**		
78	1	Surface	Cadmium	2.36E+00	0.00	0.00	0.00	0.01	2.16%
78	1	Surface	Chromium	3.75E+01	0.00	0.00		0.00	1.66%
78	1	Surface	Naphthalene	1.60E+01	0.00	0.01	0.20	0.21	77.32%
78	1	Surface	Nickel	2.15E+01	0.00	0.05	0.00	0.05	18.85%
78	1	Surface	**Totals**		**0.00**	**0.07**	**0.20**	**0.27**	
78	1	Surface	**Percent**		**0.78%**	**25.30%**	**73.92%**		
80	1	Surface	Antimony	9.10E-01	0.00	0.03		0.04	0.66%
80	1	Surface	Beryllium	7.80E-01	0.00	0.02	0.00	0.02	0.33%
80	1	Surface	Chromium	1.65E+02	0.00	0.02		0.02	0.36%
80	1	Surface	Mercury	4.50E-01	0.00	0.05		0.05	0.91%
80	1	Surface	Uranium	5.72E+03	0.93	4.39	0.02	5.34	97.74%
80	1	Surface	**Totals**		**0.94**	**4.51**	**0.02**	**5.47**	
80	1	Surface	**Percent**		**17.12%**	**82.50%**	**0.39%**		
81	1	Surface	Aluminum	9.57E+03	0.00	0.02	0.00	0.03	0.39%
81	1	Surface	Arsenic	1.03E+01	0.02	0.05	0.00	0.06	0.88%
81	1	Surface	Beryllium	7.57E-01	0.00	0.02	0.00	0.02	0.24%
81	1	Surface	Chromium	8.62E+01	0.00	0.01		0.01	0.14%
81	1	Surface	Mercury	8.33E+00	0.01	0.91		0.93	12.67%
81	1	Surface	Nickel	7.29E+01	0.00	0.17	0.00	0.17	2.33%
81	1	Surface	Silver	2.70E+00	0.00	0.02		0.03	0.34%
81	1	Surface	Uranium	6.50E+03	1.06	4.98	0.02	6.07	83.00%
81	1	Surface	**Totals**		**1.10**	**6.18**	**0.03**	**7.31**	
81	1	Surface	**Percent**		**15.01%**	**84.61%**	**0.38%**		
99	1	Surface	Chromium	5.51E+01	0.00	0.01		0.01	0.49%
99	1	Surface	Mercury	9.53E+00	0.02	1.04		1.06	79.91%
99	1	Surface	Nickel	7.02E+01	0.00	0.16	0.00	0.16	12.38%
99	1	Surface	Silver	1.03E+01	0.00	0.09		0.10	7.22%
99	1	Surface	**Totals**		**0.02**	**1.31**	**0.00**	**1.33**	
99	1	Surface	**Percent**		**1.38%**	**98.56%**	**0.07%**		
138	1	Surface	Antimony	5.39E+00	0.01	0.21		0.21	10.66%
138	1	Surface	Arsenic	1.06E+01	0.02	0.05	0.00	0.07	3.34%
138	1	Surface	Cadmium	5.42E+00	0.00	0.01	0.00	0.01	0.66%
138	1	Surface	Chromium	5.39E+01	0.00	0.01		0.01	0.32%
138	1	Surface	Mercury	1.30E+01	0.02	1.42		1.44	72.12%
138	1	Surface	Nickel	7.04E+01	0.00	0.16	0.00	0.16	8.21%
138	1	Surface	Silver	1.01E+01	0.00	0.09		0.09	4.69%
138	1	Surface	**Totals**		**0.05**	**1.95**	**0.00**	**2.00**	
138	1	Surface	**Percent**		**2.52%**	**97.37%**	**0.11%**		
138	2	Surface	Nickel	7.99E+01	0.00	0.18	0.00	0.19	65.78%
138	2	Surface	Silver	1.04E+01	0.00	0.10		0.10	34.22%
138	2	Surface	**Totals**		**0.00**	**0.28**	**0.00**	**0.28**	
138	2	Surface	**Percent**		**1.05%**	**98.61%**	**0.35%**		
153	1	Surface	**Totals**					**0.00**	
153	1	Surface	**Percent**						
154	1	Surface	Arsenic	1.52E+01	0.02	0.07	0.00	0.10	26.03%
154	1	Surface	Chromium	4.28E+01	0.00	0.01		0.01	1.38%
154	1	Surface	Nickel	9.89E+01	0.00	0.23	0.00	0.23	62.89%
154	1	Surface	Uranium	3.82E+01	0.01	0.03	0.00	0.04	9.70%
154	1	Surface	**Totals**		**0.03**	**0.33**	**0.00**	**0.37**	
154	1	Surface	**Percent**		**9.09%**	**90.23%**	**0.67%**		
154	2	Surface	**Totals**					**0.00**	
154	2	Surface	**Percent**						

SWMU = solid waste management unit
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Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
155	1	Surface	Antimony	3.65E+00	0.00	0.14		0.14	33.58%
155	1	Surface	Chromium	3.47E+01	0.00	0.00		0.00	0.95%
155	1	Surface	Nickel	7.65E+01	0.00	0.18	0.00	0.18	41.54%
155	1	Surface	Silver	1.11E+01	0.00	0.10		0.10	23.93%
155	1	Surface	**Totals**		**0.01**	**0.42**	**0.00**	**0.43**	
155	1	Surface	**Percent**		**1.73%**	**98.05%**	**0.22%**		
156	1	Surface	Chromium	4.90E+01	0.00	0.01		0.01	0.42%
156	1	Surface	Manganese	2.83E+03	0.01	0.04	0.06	0.11	7.96%
156	1	Surface	Mercury	9.87E+00	0.02	1.08		1.10	79.60%
156	1	Surface	Nickel	6.16E+01	0.00	0.14	0.00	0.14	10.45%
156	1	Surface	Uranium	2.32E+01	0.00	0.02	0.00	0.02	1.57%
156	1	Surface	**Totals**		**0.03**	**1.28**	**0.06**	**1.38**	
156	1	Surface	**Percent**		**2.27%**	**93.13%**	**4.60%**		
158	1	Surface	Antimony	5.23E-01	0.00	0.02		0.02	1.23%
158	1	Surface	Arsenic	1.01E+01	0.02	0.05	0.00	0.06	3.79%
158	1	Surface	Barium	2.19E+02	0.00	0.04	0.00	0.04	2.19%
158	1	Surface	Chromium	6.07E+01	0.00	0.01		0.01	0.43%
158	1	Surface	Cobalt	1.62E+01	0.03	0.12	0.00	0.15	9.14%
158	1	Surface	Manganese	9.91E+02	0.00	0.01	0.02	0.04	2.28%
158	1	Surface	Mercury	1.05E+01	0.02	1.15		1.16	69.06%
158	1	Surface	Nickel	7.28E+01	0.00	0.17	0.00	0.17	10.11%
158	1	Surface	Thallium	3.12E-01	0.00	0.01		0.01	0.65%
158	1	Surface	Uranium	2.03E+01	0.00	0.02	0.00	0.02	1.13%
158	1	Surface	**Totals**		**0.07**	**1.58**	**0.03**	**1.68**	
158	1	Surface	**Percent**		**4.26%**	**94.13%**	**1.61%**		
160	1	Surface	Antimony	6.80E-01	0.00	0.03		0.03	100.00%
160	1	Surface	**Totals**		**0.00**	**0.03**		**0.03**	
160	1	Surface	**Percent**		**3.09%**	**96.91%**			
163	1	Surface	Chromium	4.94E+01	0.00	0.01		0.01	100.00%
163	1	Surface	**Totals**		**0.00**	**0.01**		**0.01**	
163	1	Surface	**Percent**		**0.28%**	**99.72%**			
165	1	Surface	Antimony	2.20E+00	0.00	0.08		0.09	7.65%
165	1	Surface	Arsenic	6.35E+01	0.10	0.29	0.00	0.40	35.18%
165	1	Surface	Barium	5.84E+02	0.00	0.10	0.00	0.10	8.67%
165	1	Surface	Beryllium	6.82E-01	0.00	0.02	0.00	0.02	1.40%
165	1	Surface	Chromium	3.74E+01	0.00	0.00		0.00	0.39%
165	1	Surface	Mercury	3.78E-01	0.00	0.04		0.04	3.69%
165	1	Surface	Naphthalene	1.61E+00	0.00	0.00	0.02	0.02	1.82%
165	1	Surface	Nickel	3.47E+01	0.00	0.08	0.00	0.08	7.12%
165	1	Surface	Silver	3.09E+01	0.00	0.28		0.29	25.27%
165	1	Surface	Uranium	1.08E+02	0.02	0.08	0.00	0.10	8.82%
165	1	Surface	**Totals**		**0.13**	**0.98**	**0.03**	**1.14**	
165	1	Surface	**Percent**		**11.42%**	**86.24%**	**2.34%**		
169	1	Surface	Aluminum	1.42E+04	0.01	0.03	0.00	0.04	1.60%
169	1	Surface	Antimony	1.30E+00	0.00	0.05		0.05	1.92%
169	1	Surface	Arsenic	2.03E+01	0.03	0.09	0.00	0.13	4.78%
169	1	Surface	Beryllium	8.00E-01	0.00	0.02	0.00	0.02	0.70%
169	1	Surface	Chromium	2.15E+02	0.00	0.03		0.03	0.95%
169	1	Surface	Copper	3.74E+02	0.00	0.02		0.03	0.97%
169	1	Surface	Iron	4.16E+04	0.03	0.14		0.17	6.18%
169	1	Surface	Mercury	7.87E+00	0.01	0.86		0.87	32.67%
169	1	Surface	Nickel	5.49E+02	0.01	1.26	0.01	1.28	47.88%
169	1	Surface	Thallium	4.60E-01	0.00	0.01		0.02	0.60%
169	1	Surface	Uranium	5.03E+01	0.01	0.04	0.00	0.05	1.75%

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Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
169	1	Surface	**Totals**		**0.11**	**2.55**	**0.01**	**2.68**	
169	1	Surface	**Percent**		**4.21%**	**95.35%**	**0.43%**		
170	1	Surface	**Totals**					**0.00**	
170	1	Surface	**Percent**						
176	1	Surface	Arsenic	4.86E+01	0.08	0.22	0.00	0.31	52.58%
176	1	Surface	Chromium	4.27E+01	0.00	0.01		0.01	0.87%
176	1	Surface	Nickel	1.07E+02	0.00	0.25	0.00	0.25	43.01%
176	1	Surface	Uranium	2.21E+01	0.00	0.02	0.00	0.02	3.54%
176	1	Surface	**Totals**		**0.09**	**0.49**	**0.00**	**0.58**	
176	1	Surface	**Percent**		**14.68%**	**84.47%**	**0.85%**		
180	1	Surface	Antimony	5.80E-01	0.00	0.02		0.02	1.41%
180	1	Surface	Arsenic	7.48E+01	0.12	0.34	0.01	0.47	29.00%
180	1	Surface	Chromium	5.54E+01	0.00	0.01		0.01	0.40%
180	1	Surface	Mercury	8.28E+00	0.01	0.91		0.92	56.59%
180	1	Surface	Nickel	8.77E+01	0.00	0.20	0.00	0.20	12.60%
180	1	Surface	**Totals**		**0.14**	**1.48**	**0.01**	**1.63**	
180	1	Surface	**Percent**		**8.51%**	**91.09%**	**0.40%**		
180	2	Surface	Antimony	4.58E-01	0.00	0.02		0.02	6.04%
180	2	Surface	Arsenic	1.27E+01	0.02	0.06	0.00	0.08	26.60%
180	2	Surface	Chromium	4.46E+01	0.00	0.01		0.01	1.76%
180	2	Surface	Nickel	8.42E+01	0.00	0.19	0.00	0.20	65.59%
180	2	Surface	**Totals**		**0.02**	**0.27**	**0.00**	**0.30**	
180	2	Surface	**Percent**		**7.76%**	**91.58%**	**0.66%**		
180	3	Surface	Arsenic	1.34E+01	0.02	0.06	0.00	0.08	23.78%
180	3	Surface	Chromium	4.69E+01	0.00	0.01		0.01	1.57%
180	3	Surface	Nickel	6.77E+01	0.00	0.16	0.00	0.16	44.70%
180	3	Surface	Silver	1.14E+01	0.00	0.10		0.11	29.95%
180	3	Surface	**Totals**		**0.02**	**0.33**	**0.00**	**0.35**	
180	3	Surface	**Percent**		**6.94%**	**92.55%**	**0.51%**		
180	4	Surface	Arsenic	1.15E+01	0.02	0.05	0.00	0.07	0.22%
180	4	Surface	Barium	2.13E+02	0.00	0.03	0.00	0.04	0.11%
180	4	Surface	Beryllium	1.60E+00	0.00	0.04	0.00	0.04	0.11%
180	4	Surface	Chromium	6.00E+01	0.00	0.01		0.01	0.02%
180	4	Surface	Iron	1.54E+04	0.01	0.05		0.06	0.19%
180	4	Surface	Manganese	7.09E+02	0.00	0.01	0.02	0.03	0.08%
180	4	Surface	Nickel	6.46E+01	0.00	0.15	0.00	0.15	0.46%
180	4	Surface	Silver	9.68E+00	0.00	0.09		0.09	0.28%
180	4	Surface	Vanadium	4.85E+01	0.34	31.86	0.00	32.20	98.52%
180	4	Surface	**Totals**		**0.37**	**32.29**	**0.02**	**32.69**	
180	4	Surface	**Percent**		**1.15%**	**98.80%**	**0.06%**		
181	1	Surface	Chromium	2.29E+01	0.00	0.00		0.00	2.17%
181	1	Surface	Thallium	3.50E+00	0.02	0.10		0.12	97.83%
181	1	Surface	**Totals**		**0.02**	**0.10**		**0.12**	
181	1	Surface	**Percent**		**17.17%**	**82.83%**			
194	1	Surface	Antimony	1.50E+00	0.00	0.06		0.06	5.66%
194	1	Surface	Chromium	3.87E+01	0.00	0.00		0.00	0.44%
194	1	Surface	Mercury	6.71E+00	0.01	0.73		0.75	71.18%
194	1	Surface	Nickel	5.84E+01	0.00	0.13	0.00	0.14	13.03%
194	1	Surface	Silver	1.09E+01	0.00	0.10		0.10	9.70%
194	1	Surface	**Totals**		**0.02**	**1.03**	**0.00**	**1.05**	
194	1	Surface	**Percent**		**1.46%**	**98.47%**	**0.07%**		
194	2	Surface	Chromium	5.96E+01	0.00	0.01		0.01	4.69%
194	2	Surface	Silver	1.31E+01	0.00	0.12		0.12	81.17%
194	2	Surface	Uranium	2.28E+01	0.00	0.02	0.00	0.02	14.14%

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Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	2	Surface	**Totals**		**0.01**	**0.15**	**0.00**	**0.15**	
194	2	Surface	**Percent**		**3.34%**	**96.61%**	**0.06%**		
194	3	Surface	Antimony	6.90E-01	0.00	0.03		0.03	9.97%
194	3	Surface	Arsenic	1.46E+01	0.02	0.07	0.00	0.09	33.71%
194	3	Surface	Chromium	3.90E+01	0.00	0.00		0.00	1.68%
194	3	Surface	Nickel	6.40E+01	0.00	0.15	0.00	0.15	54.64%
194	3	Surface	**Totals**		**0.03**	**0.25**	**0.00**	**0.27**	
194	3	Surface	**Percent**		**9.61%**	**89.71%**	**0.68%**		
194	4	Surface	Chromium	4.84E+01	0.00	0.01		0.01	0.45%
194	4	Surface	Mercury	8.92E+00	0.01	0.98		0.99	78.19%
194	4	Surface	Nickel	6.91E+01	0.00	0.16	0.00	0.16	12.73%
194	4	Surface	Silver	1.18E+01	0.00	0.11		0.11	8.64%
194	4	Surface	**Totals**		**0.02**	**1.25**	**0.00**	**1.27**	
194	4	Surface	**Percent**		**1.37%**	**98.56%**	**0.07%**		
194	5	Surface	Chromium	4.58E+01	0.00	0.01		0.01	0.43%
194	5	Surface	Mercury	8.69E+00	0.01	0.95		0.97	76.46%
194	5	Surface	Nickel	7.54E+01	0.00	0.17	0.00	0.18	13.95%
194	5	Surface	Silver	1.25E+01	0.00	0.11		0.12	9.16%
194	5	Surface	**Totals**		**0.02**	**1.24**	**0.00**	**1.26**	
194	5	Surface	**Percent**		**1.37%**	**98.56%**	**0.07%**		
194	6	Surface	Chromium	3.70E+01	0.00	0.00		0.00	1.34%
194	6	Surface	Manganese	1.08E+03	0.00	0.01	0.02	0.04	12.81%
194	6	Surface	Nickel	8.06E+01	0.00	0.19	0.00	0.19	57.69%
194	6	Surface	Silver	9.89E+00	0.00	0.09		0.09	28.17%
194	6	Surface	**Totals**		**0.01**	**0.29**	**0.02**	**0.33**	
194	6	Surface	**Percent**		**2.06%**	**90.33%**	**7.61%**		
194	7	Surface	Chromium	5.32E+01	0.00	0.01		0.01	2.08%
194	7	Surface	Nickel	7.71E+01	0.00	0.18	0.00	0.18	59.54%
194	7	Surface	Silver	1.25E+01	0.00	0.11		0.12	38.39%
194	7	Surface	**Totals**		**0.00**	**0.30**	**0.00**	**0.30**	
194	7	Surface	**Percent**		**1.03%**	**98.65%**	**0.31%**		
194	8	Surface	Chromium	5.36E+01	0.00	0.01		0.01	16.99%
194	8	Surface	Manganese	8.00E+02	0.00	0.01	0.02	0.03	83.01%
194	8	Surface	**Totals**		**0.00**	**0.02**	**0.02**	**0.04**	
194	8	Surface	**Percent**		**7.54%**	**45.12%**	**47.34%**		
194	9	Surface	Arsenic	1.14E+01	0.02	0.05	0.00	0.07	92.18%
194	9	Surface	Chromium	5.17E+01	0.00	0.01		0.01	7.82%
194	9	Surface	**Totals**		**0.02**	**0.06**	**0.00**	**0.08**	
194	9	Surface	**Percent**		**23.87%**	**75.05%**	**1.08%**		
194	10	Surface	Arsenic	1.22E+01	0.02	0.06	0.00	0.08	29.65%
194	10	Surface	Chromium	3.63E+01	0.00	0.00		0.00	1.66%
194	10	Surface	Nickel	7.60E+01	0.00	0.17	0.00	0.18	68.68%
194	10	Surface	**Totals**		**0.02**	**0.23**	**0.00**	**0.26**	
194	10	Surface	**Percent**		**8.40%**	**90.90%**	**0.71%**		
194	11	Surface	Chromium	3.27E+01	0.00	0.00		0.00	0.31%
194	11	Surface	Mercury	8.09E+00	0.01	0.89		0.90	71.26%
194	11	Surface	Nickel	1.01E+02	0.00	0.23	0.00	0.24	18.64%
194	11	Surface	Silver	1.33E+01	0.00	0.12		0.12	9.79%
194	11	Surface	**Totals**		**0.02**	**1.24**	**0.00**	**1.26**	
194	11	Surface	**Percent**		**1.34%**	**98.56%**	**0.10%**		
194	12	Surface	Chromium	6.34E+01	0.00	0.01		0.01	2.48%
194	12	Surface	Nickel	7.86E+01	0.00	0.18	0.00	0.18	60.71%
194	12	Surface	Silver	1.20E+01	0.00	0.11		0.11	36.82%
194	12	Surface	**Totals**		**0.00**	**0.30**	**0.00**	**0.30**	

SWMU = solid waste management unit
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Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	12	Surface	**Percent**		**1.03%**	**98.65%**	**0.32%**		
194	13	Surface	Chromium	4.77E+01	0.00	0.01		0.01	3.85%
194	13	Surface	Nickel	6.03E+01	0.00	0.14	0.00	0.14	96.15%
194	13	Surface	**Totals**		**0.00**	**0.14**	**0.00**	**0.15**	
194	13	Surface	**Percent**		**1.02%**	**98.48%**	**0.51%**		
194	14	Surface	Chromium	5.21E+01	0.00	0.01		0.01	0.68%
194	14	Surface	Mercury	8.14E+00	0.01	0.89		0.90	99.32%
194	14	Surface	**Totals**		**0.01**	**0.90**		**0.91**	
194	14	Surface	**Percent**		**1.46%**	**98.54%**			
194	15	Surface	Chromium	5.33E+01	0.00	0.01		0.01	6.17%
194	15	Surface	Silver	1.03E+01	0.00	0.09		0.10	93.83%
194	15	Surface	**Totals**		**0.00**	**0.10**		**0.10**	
194	15	Surface	**Percent**		**1.00%**	**99.00%**			
194	16	Surface	Antimony	7.40E-01	0.00	0.03		0.03	0.11%
194	16	Surface	Arsenic	1.15E+01	0.02	0.05	0.00	0.07	0.26%
194	16	Surface	Beryllium	8.70E-01	0.00	0.02	0.00	0.02	0.07%
194	16	Surface	Chromium	5.32E+01	0.00	0.01		0.01	0.02%
194	16	Surface	Nickel	7.20E+01	0.00	0.17	0.00	0.17	0.61%
194	16	Surface	Thallium	6.30E-01	0.00	0.02		0.02	0.08%
194	16	Surface	Vanadium	4.11E+01	0.29	27.00	0.00	27.29	98.85%
194	16	Surface	**Totals**		**0.31**	**27.29**	**0.00**	**27.61**	
194	16	Surface	**Percent**		**1.13%**	**98.86%**	**0.01%**		
194	17	Surface	Arsenic	1.16E+01	0.02	0.05	0.00	0.07	89.90%
194	17	Surface	Cadmium	1.10E+00	0.00	0.00	0.00	0.00	3.31%
194	17	Surface	Chromium	4.65E+01	0.00	0.01		0.01	6.79%
194	17	Surface	**Totals**		**0.02**	**0.06**	**0.00**	**0.08**	
194	17	Surface	**Percent**		**23.94%**	**74.86%**	**1.20%**		
194	18	Surface	Arsenic	1.06E+01	0.02	0.05	0.00	0.07	29.35%
194	18	Surface	Beryllium	7.40E-01	0.00	0.02	0.00	0.02	7.59%
194	18	Surface	Chromium	6.85E+01	0.00	0.01		0.01	3.57%
194	18	Surface	Nickel	5.78E+01	0.00	0.13	0.00	0.14	59.48%
194	18	Surface	**Totals**		**0.02**	**0.21**	**0.00**	**0.23**	
194	18	Surface	**Percent**		**8.31%**	**91.02%**	**0.67%**		
194	19	Surface	Arsenic	1.07E+01	0.02	0.05	0.00	0.07	32.17%
194	19	Surface	Chromium	4.84E+01	0.00	0.01		0.01	2.73%
194	19	Surface	Nickel	5.84E+01	0.00	0.13	0.00	0.14	65.11%
194	19	Surface	**Totals**		**0.02**	**0.19**	**0.00**	**0.21**	
194	19	Surface	**Percent**		**9.01%**	**90.27%**	**0.72%**		
194	20	Surface	Arsenic	1.18E+01	0.02	0.05	0.00	0.07	0.28%
194	20	Surface	Barium	3.26E+02	0.00	0.05	0.00	0.06	0.21%
194	20	Surface	Beryllium	1.10E+00	0.00	0.03	0.00	0.03	0.10%
194	20	Surface	Chromium	5.24E+01	0.00	0.01		0.01	0.02%
194	20	Surface	Cobalt	2.11E+01	0.03	0.16	0.00	0.20	0.75%
194	20	Surface	Manganese	2.29E+03	0.01	0.03	0.05	0.09	0.33%
194	20	Surface	Mercury	7.28E+00	0.01	0.80		0.81	3.02%
194	20	Surface	Nickel	6.57E+01	0.00	0.15	0.00	0.15	0.57%
194	20	Surface	Silver	1.22E+01	0.00	0.11		0.11	0.42%
194	20	Surface	Vanadium	3.81E+01	0.27	25.03	0.00	25.30	94.31%
194	20	Surface	**Totals**		**0.34**	**26.42**	**0.06**	**26.82**	
194	20	Surface	**Percent**		**1.28%**	**98.50%**	**0.21%**		
194	21	Surface	Antimony	9.30E-01	0.00	0.04		0.04	3.81%
194	21	Surface	Chromium	5.51E+01	0.00	0.01		0.01	0.67%
194	21	Surface	Mercury	6.62E+00	0.01	0.72		0.74	76.23%
194	21	Surface	Nickel	7.01E+01	0.00	0.16	0.00	0.16	16.97%

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Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	21	Surface	Thallium	6.40E-01	0.00	0.02		0.02	2.31%
194	21	Surface	**Totals**		**0.02**	**0.95**	**0.00**	**0.97**	
194	21	Surface	**Percent**		**1.82%**	**98.09%**	**0.09%**		
194	22	Surface	Chromium	4.90E+01	0.00	0.01		0.01	15.45%
194	22	Surface	Manganese	8.19E+02	0.00	0.01	0.02	0.03	84.55%
194	22	Surface	**Totals**		**0.00**	**0.02**	**0.02**	**0.04**	
194	22	Surface	**Percent**		**7.68%**	**44.11%**	**48.22%**		
194	23	Surface	Arsenic	1.16E+01	0.02	0.05	0.00	0.07	15.66%
194	23	Surface	Chromium	6.60E+01	0.00	0.01		0.01	1.68%
194	23	Surface	Iron	1.83E+04	0.01	0.06		0.07	15.66%
194	23	Surface	Nickel	8.77E+01	0.00	0.20	0.00	0.20	44.06%
194	23	Surface	Silver	1.15E+01	0.00	0.11		0.11	22.95%
194	23	Surface	**Totals**		**0.03**	**0.43**	**0.00**	**0.47**	
194	23	Surface	**Percent**		**7.51%**	**92.08%**	**0.41%**		
194	24	Surface	Chromium	5.02E+01	0.00	0.01		0.01	3.47%
194	24	Surface	Nickel	7.08E+01	0.00	0.16	0.00	0.17	96.53%
194	24	Surface	**Totals**		**0.00**	**0.17**	**0.00**	**0.17**	
194	24	Surface	**Percent**		**1.02%**	**98.47%**	**0.51%**		
194	25	Surface	Barium	3.00E+02	0.00	0.05	0.00	0.05	20.73%
194	25	Surface	Chromium	6.13E+01	0.00	0.01		0.01	2.96%
194	25	Surface	Manganese	9.96E+02	0.00	0.01	0.02	0.04	15.77%
194	25	Surface	Nickel	6.33E+01	0.00	0.15	0.00	0.15	60.53%
194	25	Surface	**Totals**		**0.01**	**0.22**	**0.02**	**0.24**	
194	25	Surface	**Percent**		**2.37%**	**88.05%**	**9.58%**		
194	26	Surface	Beryllium	7.00E-01	0.00	0.02	0.00	0.02	12.51%
194	26	Surface	Chromium	4.18E+01	0.00	0.00		0.00	3.79%
194	26	Surface	Silver	1.03E+01	0.00	0.09		0.10	73.26%
194	26	Surface	Thallium	3.90E-01	0.00	0.01		0.01	10.43%
194	26	Surface	**Totals**		**0.00**	**0.13**	**0.00**	**0.13**	
194	26	Surface	**Percent**		**2.74%**	**97.23%**	**0.03%**		
194	27	Surface	Chromium	5.22E+01	0.00	0.01		0.01	2.44%
194	27	Surface	Nickel	6.55E+01	0.00	0.15	0.00	0.15	60.42%
194	27	Surface	Silver	1.01E+01	0.00	0.09		0.09	37.14%
194	27	Surface	**Totals**		**0.00**	**0.25**	**0.00**	**0.25**	
194	27	Surface	**Percent**		**1.03%**	**98.65%**	**0.32%**		
194	28	Surface	Arsenic	1.20E+01	0.02	0.06	0.00	0.08	0.28%
194	28	Surface	Beryllium	7.10E-01	0.00	0.02	0.00	0.02	0.06%
194	28	Surface	Chromium	6.07E+01	0.00	0.01		0.01	0.03%
194	28	Surface	Manganese	1.14E+03	0.00	0.01	0.03	0.04	0.16%
194	28	Surface	Nickel	6.95E+01	0.00	0.16	0.00	0.16	0.59%
194	28	Surface	Silver	1.08E+01	0.00	0.10		0.10	0.37%
194	28	Surface	Vanadium	4.06E+01	0.28	26.67	0.00	26.96	98.52%
194	28	Surface	**Totals**		**0.31**	**27.03**	**0.03**	**27.36**	
194	28	Surface	**Percent**		**1.13%**	**98.77%**	**0.10%**		
194	29	Surface	Antimony	7.10E-01	0.00	0.03		0.03	10.14%
194	29	Surface	Chromium	5.06E+01	0.00	0.01		0.01	2.16%
194	29	Surface	Nickel	6.51E+01	0.00	0.15	0.00	0.15	54.91%
194	29	Surface	Silver	9.77E+00	0.00	0.09		0.09	32.79%
194	29	Surface	**Totals**		**0.00**	**0.27**	**0.00**	**0.28**	
194	29	Surface	**Percent**		**1.24%**	**98.47%**	**0.29%**		
194	30	Surface	Chromium	5.66E+01	0.00	0.01		0.01	0.54%
194	30	Surface	Mercury	8.80E+00	0.01	0.96		0.98	78.96%
194	30	Surface	Nickel	6.99E+01	0.00	0.16	0.00	0.16	13.18%
194	30	Surface	Silver	9.76E+00	0.00	0.09		0.09	7.32%

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Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	30	Surface	**Totals**		**0.02**	**1.22**	**0.00**	**1.24**	
194	30	Surface	**Percent**		**1.38%**	**98.56%**	**0.07%**		
194	31	Surface	**Totals**					**0.00**	
194	31	Surface	**Percent**						
195	1	Surface	Chromium	6.33E+01	0.00	0.01		0.01	2.89%
195	1	Surface	Nickel	7.02E+01	0.00	0.16	0.00	0.16	63.42%
195	1	Surface	Silver	9.37E+00	0.00	0.09		0.09	33.68%
195	1	Surface	**Totals**		**0.00**	**0.26**	**0.00**	**0.26**	
195	1	Surface	**Percent**		**1.03%**	**98.64%**	**0.33%**		
195	2	Surface	Chromium	4.52E+01	0.00	0.01		0.01	5.72%
195	2	Surface	Silver	9.48E+00	0.00	0.09		0.09	94.28%
195	2	Surface	**Totals**		**0.00**	**0.09**		**0.09**	
195	2	Surface	**Percent**		**1.01%**	**98.99%**			
195	3	Surface	Chromium	5.03E+01	0.00	0.01		0.01	4.65%
195	3	Surface	Nickel	5.22E+01	0.00	0.12	0.00	0.12	95.35%
195	3	Surface	**Totals**		**0.00**	**0.13**	**0.00**	**0.13**	
195	3	Surface	**Percent**		**1.01%**	**98.49%**	**0.50%**		
195	4	Surface	Chromium	5.29E+01	0.00	0.01		0.01	4.12%
195	4	Surface	Nickel	6.23E+01	0.00	0.14	0.00	0.15	95.88%
195	4	Surface	**Totals**		**0.00**	**0.15**	**0.00**	**0.15**	
195	4	Surface	**Percent**		**1.02%**	**98.48%**	**0.50%**		
195	5	Surface	Chromium	5.74E+01	0.00	0.01		0.01	3.46%
195	5	Surface	Nickel	8.11E+01	0.00	0.19	0.00	0.19	96.54%
195	5	Surface	**Totals**		**0.00**	**0.19**	**0.00**	**0.20**	
195	5	Surface	**Percent**		**1.02%**	**98.47%**	**0.51%**		
195	6	Surface	Chromium	4.45E+01	0.00	0.01		0.01	2.52%
195	6	Surface	Nickel	8.71E+01	0.00	0.20	0.00	0.20	97.48%
195	6	Surface	**Totals**		**0.00**	**0.21**	**0.00**	**0.21**	
195	6	Surface	**Percent**		**1.03%**	**98.46%**	**0.51%**		
195	7	Surface	Chromium	4.93E+01	0.00	0.01		0.01	7.21%
195	7	Surface	Silver	8.06E+00	0.00	0.07		0.07	92.79%
195	7	Surface	**Totals**		**0.00**	**0.08**		**0.08**	
195	7	Surface	**Percent**		**1.00%**	**99.00%**			
195	8	Surface	Arsenic	1.16E+01	0.02	0.05	0.00	0.07	0.27%
195	8	Surface	Beryllium	7.40E-01	0.00	0.02	0.00	0.02	0.06%
195	8	Surface	Chromium	6.79E+01	0.00	0.01		0.01	0.03%
195	8	Surface	Cobalt	1.82E+01	0.03	0.14	0.00	0.17	0.63%
195	8	Surface	Nickel	7.01E+01	0.00	0.16	0.00	0.16	0.60%
195	8	Surface	Vanadium	4.04E+01	0.28	26.54	0.00	26.82	98.41%
195	8	Surface	**Totals**		**0.33**	**26.92**	**0.01**	**27.26**	
195	8	Surface	**Percent**		**1.22%**	**98.76%**	**0.02%**		
195	9	Surface	Chromium	6.08E+01	0.00	0.01		0.01	3.74%
195	9	Surface	Nickel	7.93E+01	0.00	0.18	0.00	0.19	96.26%
195	9	Surface	**Totals**		**0.00**	**0.19**	**0.00**	**0.19**	
195	9	Surface	**Percent**		**1.02%**	**98.48%**	**0.51%**		
195	10	Surface	Chromium	4.51E+01	0.00	0.01		0.01	1.78%
195	10	Surface	Nickel	7.40E+01	0.00	0.17	0.00	0.17	57.62%
195	10	Surface	Silver	1.31E+01	0.00	0.12		0.12	40.61%
195	10	Surface	**Totals**		**0.00**	**0.30**	**0.00**	**0.30**	
195	10	Surface	**Percent**		**1.04%**	**98.66%**	**0.30%**		
195	11	Surface	Aluminum	2.81E+04	0.01	0.06	0.01	0.08	0.16%
195	11	Surface	Arsenic	1.35E+01	0.02	0.06	0.00	0.08	0.16%
195	11	Surface	Barium	4.53E+02	0.00	0.07	0.00	0.08	0.14%

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Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
195	11	Surface	Chromium	5.05E+01	0.00	0.01		0.01	0.01%
195	11	Surface	Cobalt	2.77E+01	0.05	0.21	0.01	0.26	0.49%
195	11	Surface	Iron	1.97E+04	0.01	0.06		0.08	0.15%
195	11	Surface	Nickel	6.77E+01	0.00	0.16	0.00	0.16	0.29%
195	11	Surface	Thallium	6.60E-01	0.00	0.02		0.02	0.04%
195	11	Surface	Vanadium	7.97E+01	0.56	52.36	0.00	52.92	98.56%
195	11	Surface	**Totals**		**0.66**	**53.02**	**0.02**	**53.69**	
195	11	Surface	**Percent**		**1.23%**	**98.75%**	**0.03%**		
195	12	Surface	Beryllium	7.50E-01	0.00	0.02	0.00	0.02	9.49%
195	12	Surface	Chromium	7.04E+01	0.00	0.01		0.01	4.52%
195	12	Surface	Nickel	6.78E+01	0.00	0.16	0.00	0.16	85.99%
195	12	Surface	**Totals**		**0.00**	**0.18**	**0.00**	**0.18**	
195	12	Surface	**Percent**		**1.01%**	**98.51%**	**0.47%**		
195	13	Surface	Chromium	6.55E+01	0.00	0.01		0.01	4.58%
195	13	Surface	Nickel	6.91E+01	0.00	0.16	0.00	0.16	95.42%
195	13	Surface	**Totals**		**0.00**	**0.17**	**0.00**	**0.17**	
195	13	Surface	**Percent**		**1.01%**	**98.49%**	**0.50%**		
195	14	Surface	Chromium	5.94E+01	0.00	0.01		0.01	4.10%
195	14	Surface	Nickel	7.04E+01	0.00	0.16	0.00	0.16	95.90%
195	14	Surface	**Totals**		**0.00**	**0.17**	**0.00**	**0.17**	
195	14	Surface	**Percent**		**1.02%**	**98.48%**	**0.50%**		
195	15	Surface	Chromium	4.82E+01	0.00	0.01		0.01	100.00%
195	15	Surface	**Totals**		**0.00**	**0.01**		**0.01**	
195	15	Surface	**Percent**		**0.28%**	**99.72%**			
195	16	Surface	Chromium	4.45E+01	0.00	0.01		0.01	2.68%
195	16	Surface	Nickel	8.16E+01	0.00	0.19	0.00	0.19	97.32%
195	16	Surface	**Totals**		**0.00**	**0.19**	**0.00**	**0.20**	
195	16	Surface	**Percent**		**1.03%**	**98.46%**	**0.51%**		
195	17	Surface	Chromium	8.22E+01	0.00	0.01		0.01	3.16%
195	17	Surface	Mercury	4.17E-01	0.00	0.05		0.05	15.06%
195	17	Surface	Nickel	5.93E+01	0.00	0.14	0.00	0.14	45.04%
195	17	Surface	Silver	1.01E+01	0.00	0.09		0.09	30.63%
195	17	Surface	Thallium	5.40E-01	0.00	0.02		0.02	6.12%
195	17	Surface	**Totals**		**0.01**	**0.30**	**0.00**	**0.31**	
195	17	Surface	**Percent**		**2.10%**	**97.67%**	**0.24%**		
196	1	Surface	Antimony	5.90E-01	0.00	0.02		0.02	1.73%
196	1	Surface	Chromium	1.96E+01	0.00	0.00		0.00	0.17%
196	1	Surface	Nickel	5.56E+02	0.01	1.28	0.01	1.30	96.48%
196	1	Surface	Uranium	2.33E+01	0.00	0.02	0.00	0.02	1.62%
196	1	Surface	**Totals**		**0.02**	**1.32**	**0.01**	**1.35**	
196	1	Surface	**Percent**		**1.35%**	**98.14%**	**0.51%**		
196	2	Surface	Barium	2.02E+02	0.00	0.03	0.00	0.03	15.89%
196	2	Surface	Cadmium	2.53E+00	0.00	0.00	0.00	0.01	2.87%
196	2	Surface	Chromium	2.07E+01	0.00	0.00		0.00	1.14%
196	2	Surface	Nickel	7.36E+01	0.00	0.17	0.00	0.17	80.09%
196	2	Surface	**Totals**		**0.00**	**0.21**	**0.00**	**0.21**	
196	2	Surface	**Percent**		**1.65%**	**97.59%**	**0.76%**		
200	1	Surface	Antimony	5.60E-01	0.00	0.02		0.02	2.01%
200	1	Surface	Chromium	5.75E+01	0.00	0.01		0.01	0.62%
200	1	Surface	Mercury	6.71E+00	0.01	0.73		0.75	67.84%
200	1	Surface	Nickel	1.28E+02	0.00	0.29	0.00	0.30	27.21%
200	1	Surface	Uranium	2.73E+01	0.00	0.02	0.00	0.03	2.32%
200	1	Surface	**Totals**		**0.02**	**1.08**	**0.00**	**1.10**	
200	1	Surface	**Percent**		**1.75%**	**98.10%**	**0.15%**		

SWMU = solid waste management unit
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Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	1	Surface	Aluminum	1.48E+04	0.01	0.03	0.00	0.04	0.09%
204	1	Surface	Beryllium	1.36E+00	0.00	0.03	0.00	0.03	0.06%
204	1	Surface	Cadmium	2.73E+00	0.00	0.01	0.00	0.01	0.01%
204	1	Surface	Chromium	7.40E+01	0.00	0.01		0.01	0.02%
204	1	Surface	Iron	4.19E+04	0.03	0.14		0.17	0.33%
204	1	Surface	Vanadium	7.55E+01	0.53	49.60	0.00	50.13	99.49%
204	1	Surface	**Totals**		**0.57**	**49.82**	**0.00**	**50.39**	
204	1	Surface	**Percent**		**1.12%**	**98.87%**	**0.01%**		
204	2	Surface	Aluminum	1.37E+04	0.01	0.03	0.00	0.04	95.09%
204	2	Surface	Chromium	1.80E+01	0.00	0.00		0.00	4.91%
204	2	Surface	**Totals**		**0.01**	**0.03**	**0.00**	**0.04**	
204	2	Surface	**Percent**		**15.47%**	**77.55%**	**6.97%**		
204	3	Surface	Chromium	2.06E+01	0.00	0.00		0.00	100.00%
204	3	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
204	3	Surface	**Percent**		**0.28%**	**99.72%**			
204	4	Surface	Antimony	1.10E+00	0.00	0.04		0.04	92.72%
204	4	Surface	Chromium	2.89E+01	0.00	0.00		0.00	7.28%
204	4	Surface	**Totals**		**0.00**	**0.05**		**0.05**	
204	4	Surface	**Percent**		**2.89%**	**97.11%**			
204	18	Surface	Uranium	1.60E+01	0.00	0.01	0.00	0.01	100.00%
204	18	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.01**	
204	18	Surface	**Percent**		**17.47%**	**82.13%**	**0.39%**		
204	23	Surface	Beryllium	1.33E+00	0.00	0.03	0.00	0.03	0.25%
204	23	Surface	Chromium	1.75E+02	0.00	0.02		0.02	0.17%
204	23	Surface	Uranium	1.31E+04	2.13	10.02	0.05	12.20	99.58%
204	23	Surface	**Totals**		**2.13**	**10.07**	**0.05**	**12.25**	
204	23	Surface	**Percent**		**17.40%**	**82.20%**	**0.39%**		
211	1	Surface	Chromium	4.48E+01	0.00	0.01		0.01	20.60%
211	1	Surface	Uranium	2.19E+01	0.00	0.02	0.00	0.02	79.40%
211	1	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.03**	
211	1	Surface	**Percent**		**13.93%**	**85.75%**	**0.31%**		
212	1	Surface	Arsenic	1.44E+01	0.02	0.07	0.00	0.09	18.05%
212	1	Surface	Beryllium	8.10E-01	0.00	0.02	0.00	0.02	3.75%
212	1	Surface	Chromium	3.58E+01	0.00	0.00		0.00	0.84%
212	1	Surface	Iron	4.14E+04	0.03	0.14		0.16	32.76%
212	1	Surface	Nickel	8.69E+01	0.00	0.20	0.00	0.20	40.33%
212	1	Surface	Uranium	2.30E+01	0.00	0.02	0.00	0.02	4.26%
212	1	Surface	**Totals**		**0.06**	**0.44**	**0.00**	**0.50**	
212	1	Surface	**Percent**		**11.63%**	**87.92%**	**0.45%**		
213	1	Surface	Antimony	8.50E-01	0.00	0.03		0.03	10.58%
213	1	Surface	Chromium	4.78E+01	0.00	0.01		0.01	1.78%
213	1	Surface	Nickel	6.67E+01	0.00	0.15	0.00	0.16	49.09%
213	1	Surface	Silver	1.32E+01	0.00	0.12		0.12	38.55%
213	1	Surface	**Totals**		**0.00**	**0.31**	**0.00**	**0.32**	
213	1	Surface	**Percent**		**1.25%**	**98.49%**	**0.26%**		
213	2	Surface	Chromium	4.48E+01	0.00	0.01		0.01	1.64%
213	2	Surface	Nickel	9.10E+01	0.00	0.21	0.00	0.21	65.90%
213	2	Surface	Silver	1.13E+01	0.00	0.10		0.10	32.45%
213	2	Surface	**Totals**		**0.00**	**0.32**	**0.00**	**0.32**	
213	2	Surface	**Percent**		**1.04%**	**98.62%**	**0.35%**		
214	1	Surface	Antimony	5.70E-01	0.00	0.02		0.02	100.00%
214	1	Surface	**Totals**		**0.00**	**0.02**		**0.02**	
214	1	Surface	**Percent**		**3.09%**	**96.91%**			

SWMU = solid waste management unit
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HI = hazard index

Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
215	1	Surface	Antimony	6.80E-01	0.00	0.03		0.03	7.50%
215	1	Surface	Chromium	5.73E+01	0.00	0.01		0.01	1.89%
215	1	Surface	Iron	3.87E+04	0.03	0.13		0.15	42.97%
215	1	Surface	Nickel	7.32E+01	0.00	0.17	0.00	0.17	47.65%
215	1	Surface	**Totals**		**0.03**	**0.33**	**0.00**	**0.36**	
215	1	Surface	**Percent**		**8.27%**	**91.48%**	**0.25%**		
216	1	Surface	Chromium	2.38E+01	0.00	0.00		0.00	100.00%
216	1	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
216	1	Surface	**Percent**		**0.28%**	**99.72%**			
217	1	Surface	Chromium	8.58E+01	0.00	0.01		0.01	1.84%
217	1	Surface	Cobalt	1.96E+01	0.03	0.15	0.00	0.19	33.73%
217	1	Surface	Manganese	7.70E+02	0.00	0.01	0.02	0.03	5.42%
217	1	Surface	Nickel	8.54E+01	0.00	0.20	0.00	0.20	36.28%
217	1	Surface	Silver	1.35E+01	0.00	0.12		0.13	22.73%
217	1	Surface	**Totals**		**0.04**	**0.49**	**0.02**	**0.55**	
217	1	Surface	**Percent**		**6.92%**	**89.15%**	**3.94%**		
217	2	Surface	Antimony	1.70E+00	0.00	0.07		0.07	3.73%
217	2	Surface	Arsenic	1.12E+01	0.02	0.05	0.00	0.07	3.90%
217	2	Surface	Chromium	1.02E+02	0.00	0.01		0.01	0.67%
217	2	Surface	Cobalt	1.74E+01	0.03	0.13	0.00	0.16	9.15%
217	2	Surface	Iron	3.09E+04	0.02	0.10		0.12	6.84%
217	2	Surface	Manganese	8.44E+02	0.00	0.01	0.02	0.03	1.81%
217	2	Surface	Mercury	8.59E+00	0.01	0.94		0.95	52.97%
217	2	Surface	Nickel	9.74E+01	0.00	0.22	0.00	0.23	12.63%
217	2	Surface	Silver	1.61E+01	0.00	0.15		0.15	8.30%
217	2	Surface	**Totals**		**0.09**	**1.69**	**0.02**	**1.80**	
217	2	Surface	**Percent**		**5.06%**	**93.61%**	**1.32%**		
219	1	Surface	Nickel	6.71E+01	0.00	0.15	0.00	0.16	100.00%
219	1	Surface	**Totals**		**0.00**	**0.15**	**0.00**	**0.16**	
219	1	Surface	**Percent**		**1.05%**	**98.43%**	**0.53%**		
221	1	Surface	Barium	2.21E+02	0.00	0.04	0.00	0.04	11.61%
221	1	Surface	Chromium	7.01E+01	0.00	0.01		0.01	2.58%
221	1	Surface	Iron	1.90E+04	0.01	0.06		0.08	23.50%
221	1	Surface	Nickel	7.93E+01	0.00	0.18	0.00	0.19	57.57%
221	1	Surface	Uranium	1.64E+01	0.00	0.01	0.00	0.02	4.74%
221	1	Surface	**Totals**		**0.02**	**0.30**	**0.00**	**0.32**	
221	1	Surface	**Percent**		**5.73%**	**93.80%**	**0.47%**		
222	1	Surface	Chromium	4.73E+01	0.00	0.01		0.01	2.27%
222	1	Surface	Nickel	9.19E+01	0.00	0.21	0.00	0.21	87.13%
222	1	Surface	Uranium	2.80E+01	0.00	0.02	0.00	0.03	10.60%
222	1	Surface	**Totals**		**0.01**	**0.24**	**0.00**	**0.25**	
222	1	Surface	**Percent**		**2.77%**	**96.73%**	**0.50%**		
224	1	Surface	Chromium	4.49E+01	0.00	0.01		0.01	12.06%
224	1	Surface	Uranium	4.15E+01	0.01	0.03	0.00	0.04	87.94%
224	1	Surface	**Totals**		**0.01**	**0.04**	**0.00**	**0.04**	
224	1	Surface	**Percent**		**15.40%**	**84.25%**	**0.35%**		
225	1	Surface	Chromium	2.55E+01	0.00	0.00		0.00	100.00%
225	1	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
225	1	Surface	**Percent**		**0.28%**	**99.72%**			
226	1	Surface	Antimony	6.60E-01	0.00	0.03		0.03	1.30%
226	1	Surface	Chromium	4.25E+01	0.00	0.01		0.01	0.25%
226	1	Surface	Manganese	6.30E+02	0.00	0.01	0.01	0.02	1.22%
226	1	Surface	Mercury	9.74E+00	0.02	1.07		1.08	54.07%
226	1	Surface	Nickel	2.10E+02	0.01	0.48	0.00	0.49	24.46%

SWMU = solid waste management unit
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Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
226	1	Surface	Uranium	4.01E+02	0.07	0.31	0.00	0.37	18.69%
226	1	Surface	**Totals**		**0.09**	**1.89**	**0.02**	**2.00**	
226	1	Surface	**Percent**		**4.47%**	**94.64%**	**0.90%**		
227	1	Surface	Beryllium	5.52E-01	0.00	0.01	0.00	0.01	2.19%
227	1	Surface	Chromium	4.71E+01	0.00	0.01		0.01	0.95%
227	1	Surface	Nickel	2.03E+02	0.00	0.47	0.00	0.47	80.72%
227	1	Surface	Uranium	1.02E+02	0.02	0.08	0.00	0.09	16.14%
227	1	Surface	**Totals**		**0.02**	**0.56**	**0.00**	**0.59**	
227	1	Surface	**Percent**		**3.69%**	**95.82%**	**0.49%**		
227	2	Surface	Beryllium	5.32E-01	0.00	0.01	0.00	0.01	0.92%
227	2	Surface	Chromium	5.63E+01	0.00	0.01		0.01	0.50%
227	2	Surface	Cobalt	8.99E+00	0.01	0.07	0.00	0.09	6.34%
227	2	Surface	Mercury	8.41E+00	0.01	0.92		0.93	69.50%
227	2	Surface	Nickel	1.25E+02	0.00	0.29	0.00	0.29	21.70%
227	2	Surface	Uranium	1.51E+01	0.00	0.01	0.00	0.01	1.04%
227	2	Surface	**Totals**		**0.03**	**1.31**	**0.00**	**1.34**	
227	2	Surface	**Percent**		**2.53%**	**97.23%**	**0.24%**		
228	1	Surface	Antimony	6.30E-01	0.00	0.02		0.02	1.77%
228	1	Surface	Cadmium	3.90E+00	0.00	0.01	0.00	0.01	0.68%
228	1	Surface	Chromium	1.89E+02	0.00	0.02		0.02	1.59%
228	1	Surface	Mercury	9.37E+00	0.02	1.03		1.04	74.10%
228	1	Surface	Nickel	7.92E+01	0.00	0.18	0.00	0.18	13.16%
228	1	Surface	Silver	1.16E+01	0.00	0.11		0.11	7.69%
228	1	Surface	Uranium	1.51E+01	0.00	0.01	0.00	0.01	1.00%
228	1	Surface	**Totals**		**0.02**	**1.38**	**0.00**	**1.41**	
228	1	Surface	**Percent**		**1.68%**	**98.22%**	**0.10%**		
229	1	Surface	Nickel	9.14E+01	0.00	0.21	0.00	0.21	59.48%
229	1	Surface	Uranium	1.56E+02	0.03	0.12	0.00	0.15	40.52%
229	1	Surface	**Totals**		**0.03**	**0.33**	**0.00**	**0.36**	
229	1	Surface	**Percent**		**7.70%**	**91.82%**	**0.47%**		
229	2	Surface	Arsenic	2.12E+01	0.03	0.10	0.00	0.13	29.25%
229	2	Surface	Beryllium	7.90E-01	0.00	0.02	0.00	0.02	4.03%
229	2	Surface	Chromium	2.91E+01	0.00	0.00		0.00	0.75%
229	2	Surface	Nickel	9.93E+01	0.00	0.23	0.00	0.23	50.75%
229	2	Surface	Uranium	7.45E+01	0.01	0.06	0.00	0.07	15.22%
229	2	Surface	**Totals**		**0.05**	**0.40**	**0.00**	**0.46**	
229	2	Surface	**Percent**		**10.80%**	**88.52%**	**0.68%**		
483	1	Surface	Nickel	1.17E+02	0.00	0.27	0.00	0.27	72.36%
483	1	Surface	Silver	1.12E+01	0.00	0.10		0.10	27.64%
483	1	Surface	**Totals**		**0.00**	**0.37**	**0.00**	**0.38**	
483	1	Surface	**Percent**		**1.05%**	**98.57%**	**0.38%**		
486	1	Surface	**Totals**					**0.00**	
486	1	Surface	**Percent**						
487	1	Surface	**Totals**					**0.00**	
487	1	Surface	**Percent**						
488	1	Surface	Uranium	1.48E+01	0.00	0.01	0.00	0.01	100.00%
488	1	Surface	**Totals**		**0.00**	**0.01**	**0.00**	**0.01**	
488	1	Surface	**Percent**		**17.47%**	**82.13%**	**0.39%**		
489	1	Surface	Chromium	4.16E+01	0.00	0.00		0.00	2.60%
489	1	Surface	Nickel	7.88E+01	0.00	0.18	0.00	0.18	97.40%
489	1	Surface	**Totals**		**0.00**	**0.19**	**0.00**	**0.19**	
489	1	Surface	**Percent**		**1.03%**	**98.46%**	**0.51%**		
492	1	Surface	Arsenic	1.47E+01	0.02	0.07	0.00	0.09	0.30%

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Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
492	1	Surface	Beryllium	1.04E+01	0.00	0.24	0.00	0.24	0.79%
492	1	Surface	Cadmium	3.14E+00	0.00	0.01	0.00	0.01	0.02%
492	1	Surface	Chromium	1.04E+03	0.00	0.12		0.12	0.40%
492	1	Surface	Uranium	1.77E+03	0.29	1.36	0.01	1.65	5.36%
492	1	Surface	Vanadium	4.32E+01	0.30	28.38	0.00	28.68	93.13%
492	1	Surface	**Totals**		**0.62**	**30.17**	**0.01**	**30.80**	
492	1	Surface	**Percent**		**2.01%**	**97.96%**	**0.03%**		
493	1	Surface	Aluminum	1.44E+04	0.01	0.03	0.00	0.04	0.15%
493	1	Surface	Barium	4.04E+02	0.00	0.07	0.00	0.07	0.24%
493	1	Surface	Beryllium	9.91E-01	0.00	0.02	0.00	0.02	0.08%
493	1	Surface	Chromium	6.61E+01	0.00	0.01		0.01	0.03%
493	1	Surface	Cobalt	3.79E+01	0.06	0.29	0.01	0.36	1.28%
493	1	Surface	Manganese	3.55E+03	0.01	0.05	0.08	0.14	0.49%
493	1	Surface	Mercury	2.60E-01	0.00	0.03		0.03	0.10%
493	1	Surface	Nickel	2.13E+02	0.01	0.49	0.00	0.50	1.77%
493	1	Surface	Vanadium	4.05E+01	0.28	26.61	0.00	26.89	95.85%
493	1	Surface	**Totals**		**0.37**	**27.59**	**0.09**	**28.06**	
493	1	Surface	**Percent**		**1.32%**	**98.35%**	**0.33%**		
517	1	Surface	Beryllium	7.39E-01	0.00	0.02	0.00	0.02	4.05%
517	1	Surface	Chromium	4.91E+01	0.00	0.01		0.01	1.37%
517	1	Surface	Nickel	1.72E+02	0.00	0.40	0.00	0.40	94.58%
517	1	Surface	**Totals**		**0.00**	**0.42**	**0.00**	**0.42**	
517	1	Surface	**Percent**		**1.04%**	**98.46%**	**0.51%**		
518	1	Surface	Cobalt	6.80E+00	0.01	0.05	0.00	0.06	21.09%
518	1	Surface	Nickel	1.29E+01	0.00	0.03	0.00	0.03	9.82%
518	1	Surface	Pyrene	3.94E+01	0.00	0.01	0.00	0.01	2.87%
518	1	Surface	Uranium	2.17E+02	0.04	0.17	0.00	0.20	66.22%
518	1	Surface	**Totals**		**0.05**	**0.26**	**0.00**	**0.31**	
518	1	Surface	**Percent**		**15.51%**	**83.67%**	**0.81%**		
520	1	Surface	Chromium	3.17E+01	0.00	0.00		0.00	0.19%
520	1	Surface	Iron	1.56E+04	0.01	0.05		0.06	3.10%
520	1	Surface	Mercury	1.07E+01	0.02	1.17		1.19	59.25%
520	1	Surface	Nickel	2.60E+02	0.01	0.60	0.00	0.61	30.37%
520	1	Surface	Silver	1.30E+01	0.00	0.12		0.12	6.02%
520	1	Surface	Uranium	2.29E+01	0.00	0.02	0.00	0.02	1.07%
520	1	Surface	**Totals**		**0.04**	**1.96**	**0.00**	**2.00**	
520	1	Surface	**Percent**		**1.98%**	**97.85%**	**0.16%**		
520	2	Surface	Beryllium	5.79E-01	0.00	0.01	0.00	0.01	0.63%
520	2	Surface	Chromium	6.67E+01	0.00	0.01		0.01	0.37%
520	2	Surface	Manganese	5.89E+02	0.00	0.01	0.01	0.02	1.07%
520	2	Surface	Mercury	1.19E+01	0.02	1.30		1.32	62.08%
520	2	Surface	Nickel	3.11E+02	0.01	0.71	0.00	0.73	34.11%
520	2	Surface	Uranium	3.96E+01	0.01	0.03	0.00	0.04	1.74%
520	2	Surface	**Totals**		**0.04**	**2.07**	**0.02**	**2.13**	
520	2	Surface	**Percent**		**1.68%**	**97.52%**	**0.80%**		
520	3	Surface	Chromium	3.97E+01	0.00	0.00		0.00	0.61%
520	3	Surface	Copper	1.19E+02	0.00	0.01		0.01	1.08%
520	3	Surface	Nickel	2.65E+02	0.01	0.61	0.00	0.62	80.62%
520	3	Surface	Silver	1.27E+01	0.00	0.12		0.12	15.35%
520	3	Surface	Uranium	1.92E+01	0.00	0.01	0.00	0.02	2.34%
520	3	Surface	**Totals**		**0.01**	**0.75**	**0.00**	**0.77**	
520	3	Surface	**Percent**		**1.61%**	**97.96%**	**0.43%**		
520	4	Surface	Chromium	3.82E+01	0.00	0.00		0.00	0.24%
520	4	Surface	Copper	1.11E+02	0.00	0.01		0.01	0.41%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
520	4	Surface	Mercury	9.69E+00	0.02	1.06		1.08	57.67%
520	4	Surface	Nickel	2.82E+02	0.01	0.65	0.00	0.66	35.27%
520	4	Surface	Silver	1.04E+01	0.00	0.10		0.10	5.20%
520	4	Surface	Uranium	2.40E+01	0.00	0.02	0.00	0.02	1.20%
520	4	Surface	**Totals**		**0.03**	**1.83**	**0.00**	**1.87**	
520	4	Surface	**Percent**		**1.55%**	**98.26%**	**0.19%**		
520	5	Surface	Antimony	9.60E-01	0.00	0.04		0.04	9.85%
520	5	Surface	Chromium	3.68E+01	0.00	0.00		0.00	1.13%
520	5	Surface	Nickel	1.47E+02	0.00	0.34	0.00	0.34	89.02%
520	5	Surface	**Totals**		**0.00**	**0.38**	**0.00**	**0.39**	
520	5	Surface	**Percent**		**1.24%**	**98.29%**	**0.47%**		
531	1	Surface	Antimony	1.00E+00	0.00	0.04		0.04	3.96%
531	1	Surface	Arsenic	4.68E+01	0.08	0.22	0.00	0.30	29.54%
531	1	Surface	Cadmium	3.10E+00	0.00	0.01	0.00	0.01	0.76%
531	1	Surface	Chromium	5.05E+01	0.00	0.01		0.01	0.60%
531	1	Surface	Iron	5.68E+04	0.04	0.19		0.23	22.67%
531	1	Surface	Nickel	1.62E+02	0.00	0.37	0.00	0.38	37.94%
531	1	Surface	Uranium	2.41E+01	0.00	0.02	0.00	0.02	2.25%
531	1	Surface	Zinc	2.45E+03	0.00	0.02		0.02	2.28%
531	1	Surface	**Totals**		**0.13**	**0.86**	**0.01**	**1.00**	
531	1	Surface	**Percent**		**13.09%**	**86.33%**	**0.59%**		
541	1	Surface	Aluminum	1.43E+04	0.01	0.03	0.00	0.04	0.16%
541	1	Surface	Barium	1.28E+02	0.00	0.02	0.00	0.02	0.08%
541	1	Surface	Beryllium	6.98E-01	0.00	0.02	0.00	0.02	0.06%
541	1	Surface	Cadmium	1.68E+00	0.00	0.00	0.00	0.00	0.02%
541	1	Surface	Chromium	8.24E+02	0.00	0.10		0.10	0.37%
541	1	Surface	Iron	1.60E+04	0.01	0.05		0.06	0.24%
541	1	Surface	Mercury	9.81E-02	0.00	0.01		0.01	0.04%
541	1	Surface	Naphthalene	6.55E-01	0.00	0.00	0.01	0.01	0.03%
541	1	Surface	Nickel	1.52E+01	0.00	0.04	0.00	0.04	0.13%
541	1	Surface	Uranium	6.38E+03	1.04	4.89	0.02	5.96	22.50%
541	1	Surface	Vanadium	3.04E+01	0.21	20.00	0.00	20.21	76.36%
541	1	Surface	**Totals**		**1.27**	**25.16**	**0.04**	**26.47**	
541	1	Surface	**Percent**		**4.81%**	**95.05%**	**0.14%**		
561	1	Surface	Antimony	9.36E-01	0.00	0.04		0.04	0.14%
561	1	Surface	Arsenic	1.66E+01	0.03	0.08	0.00	0.10	0.41%
561	1	Surface	Barium	1.40E+02	0.00	0.02	0.00	0.02	0.09%
561	1	Surface	Beryllium	6.85E-01	0.00	0.02	0.00	0.02	0.06%
561	1	Surface	Chromium	8.58E+01	0.00	0.01		0.01	0.04%
561	1	Surface	Cobalt	1.07E+01	0.02	0.08	0.00	0.10	0.39%
561	1	Surface	Iron	2.05E+04	0.01	0.07		0.08	0.32%
561	1	Surface	Manganese	1.61E+03	0.01	0.02	0.04	0.06	0.24%
561	1	Surface	Thallium	3.33E-01	0.00	0.01		0.01	0.05%
561	1	Surface	Uranium	2.65E+02	0.04	0.20	0.00	0.25	0.96%
561	1	Surface	Vanadium	3.76E+01	0.26	24.73	0.00	24.99	97.29%
561	1	Surface	**Totals**		**0.37**	**25.27**	**0.04**	**25.69**	
561	1	Surface	**Percent**		**1.46%**	**98.39%**	**0.16%**		
561	2	Surface	Antimony	5.33E+00	0.01	0.20		0.21	0.85%
561	2	Surface	Arsenic	1.30E+01	0.02	0.06	0.00	0.08	0.33%
561	2	Surface	Beryllium	6.34E-01	0.00	0.01	0.00	0.01	0.06%
561	2	Surface	Cadmium	4.13E-01	0.00	0.00	0.00	0.00	0.00%
561	2	Surface	Chromium	2.88E+02	0.00	0.03		0.03	0.14%
561	2	Surface	Cobalt	1.14E+01	0.02	0.09	0.00	0.11	0.44%
561	2	Surface	Manganese	1.12E+03	0.00	0.01	0.02	0.04	0.17%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.22. HIs for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
561	2	Surface	Thallium	4.09E-01	0.00	0.01		0.01	0.06%
561	2	Surface	Uranium	1.38E+03	0.23	1.06	0.01	1.29	5.22%
561	2	Surface	Vanadium	3.46E+01	0.24	22.70	0.00	22.94	92.73%
561	2	Surface	**Totals**		**0.52**	**24.19**	**0.03**	**24.74**	
561	2	Surface	**Percent**		**2.10%**	**97.76%**	**0.13%**		
562	1	Surface	Uranium	8.73E+01	0.01	0.07	0.00	0.08	100.00%
562	1	Surface	**Totals**		**0.01**	**0.07**	**0.00**	**0.08**	
562	1	Surface	**Percent**		**17.47%**	**82.13%**	**0.39%**		
562	2	Surface	**Totals**					**0.00**	
562	2	Surface	**Percent**						
562	3	Surface	Chromium	3.82E+01	0.00	0.00		0.00	7.59%
562	3	Surface	Uranium	5.89E+01	0.01	0.05	0.00	0.05	92.41%
562	3	Surface	**Totals**		**0.01**	**0.05**	**0.00**	**0.06**	
562	3	Surface	**Percent**		**16.17%**	**83.47%**	**0.36%**		
562	4	Surface	Chromium	4.67E+01	0.00	0.01		0.01	21.98%
562	4	Surface	Uranium	2.10E+01	0.00	0.02	0.00	0.02	78.02%
562	4	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.03**	
562	4	Surface	**Percent**		**13.69%**	**86.00%**	**0.31%**		
562	5	Surface	Chromium	1.53E+02	0.00	0.02		0.02	8.53%
562	5	Surface	Uranium	2.08E+02	0.03	0.16	0.00	0.19	91.47%
562	5	Surface	**Totals**		**0.03**	**0.18**	**0.00**	**0.21**	
562	5	Surface	**Percent**		**16.01%**	**83.63%**	**0.36%**		
563	1	Surface	Cadmium	8.96E-01	0.00	0.00	0.00	0.00	4.37%
563	1	Surface	Chromium	2.85E+02	0.00	0.03		0.03	67.44%
563	1	Surface	Uranium	1.51E+01	0.00	0.01	0.00	0.01	28.18%
563	1	Surface	**Totals**		**0.00**	**0.05**	**0.00**	**0.05**	
563	1	Surface	**Percent**		**5.99%**	**93.70%**	**0.31%**		
563	2	Surface	**Totals**					**0.00**	
563	2	Surface	**Percent**						
564	1	Surface	Arsenic	4.30E+01	0.07	0.20	0.00	0.27	0.50%
564	1	Surface	Beryllium	2.12E+00	0.00	0.05	0.00	0.05	0.09%
564	1	Surface	Cadmium	1.96E+00	0.00	0.00	0.00	0.00	0.01%
564	1	Surface	Chromium	7.49E+01	0.00	0.01		0.01	0.02%
564	1	Surface	Iron	3.66E+04	0.03	0.12		0.15	0.27%
564	1	Surface	Mercury	2.30E-01	0.00	0.03		0.03	0.05%
564	1	Surface	Nickel	2.24E+01	0.00	0.05	0.00	0.05	0.10%
564	1	Surface	Thallium	2.36E+00	0.01	0.07		0.08	0.15%
564	1	Surface	Uranium	5.83E+01	0.01	0.04	0.00	0.05	0.10%
564	1	Surface	Vanadium	8.06E+01	0.56	52.95	0.00	53.52	98.72%
564	1	Surface	**Totals**		**0.69**	**53.52**	**0.00**	**54.21**	
564	1	Surface	**Percent**		**1.26%**	**98.73%**	**0.01%**		
567	3	Surface	Chromium	3.79E+01	0.00	0.00		0.00	100.00%
567	3	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
567	3	Surface	**Percent**		**0.28%**	**99.72%**			
567	4	Surface	Aluminum	1.25E+04	0.01	0.03	0.00	0.04	95.13%
567	4	Surface	Chromium	1.63E+01	0.00	0.00		0.00	4.87%
567	4	Surface	**Totals**		**0.01**	**0.03**	**0.00**	**0.04**	
567	4	Surface	**Percent**		**15.48%**	**77.54%**	**6.98%**		

SWMU = solid waste management unit
EU = exposure unit
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HI = hazard index

Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
1	1	Surface	Beryllium	3.89E+00	0.01	0.07	0.00	0.07	91.78%
1	1	Surface	Cadmium	1.10E+00	0.00	0.00	0.00	0.01	6.78%
1	1	Surface	Chromium	1.28E+01	0.00	0.00		0.00	1.44%
1	1	Surface	**Totals**		**0.01**	**0.07**	**0.00**	**0.08**	
1	1	Surface	**Percent**		**13.32%**	**86.37%**	**0.31%**		
1	2	Surface	Beryllium	8.23E+00	0.01	0.14	0.00	0.15	0.78%
1	2	Surface	Cadmium	6.46E+00	0.02	0.01	0.00	0.03	0.16%
1	2	Surface	Chromium	2.01E+02	0.00	0.02		0.02	0.09%
1	2	Surface	Copper	1.81E+02	0.02	0.01		0.02	0.12%
1	2	Surface	Mercury	5.94E+00	0.07	0.48		0.55	2.77%
1	2	Surface	Nickel	5.75E+01	0.01	0.10	0.00	0.11	0.55%
1	2	Surface	Silver	3.31E+01	0.02	0.23		0.25	1.25%
1	2	Surface	Thallium	3.70E-01	0.02	0.01		0.02	0.12%
1	2	Surface	Vanadium	3.49E+01	1.73	16.95	0.00	18.68	94.16%
1	2	Surface	**Totals**		**1.90**	**17.93**	**0.00**	**19.84**	
1	2	Surface	**Percent**		**9.59%**	**90.41%**	**0.01%**		
1	3	Surface	Chromium	1.45E+01	0.00	0.00		0.00	100.00%
1	3	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
1	3	Surface	**Percent**		**2.59%**	**97.41%**			
1	4	Surface	Beryllium	7.25E-01	0.00	0.01	0.00	0.01	12.36%
1	4	Surface	Chromium	9.30E+01	0.00	0.01		0.01	7.56%
1	4	Surface	Nickel	4.69E+01	0.01	0.08	0.00	0.09	80.09%
1	4	Surface	**Totals**		**0.01**	**0.10**	**0.00**	**0.11**	
1	4	Surface	**Percent**		**8.72%**	**90.86%**	**0.41%**		
1	5	Surface	Beryllium	8.30E+00	0.01	0.14	0.00	0.16	65.38%
1	5	Surface	Cadmium	1.20E+00	0.00	0.00	0.00	0.01	2.47%
1	5	Surface	Nickel	4.07E+01	0.01	0.07	0.00	0.08	32.15%
1	5	Surface	**Totals**		**0.03**	**0.21**	**0.00**	**0.24**	
1	5	Surface	**Percent**		**10.76%**	**88.90%**	**0.34%**		
12	1	Surface	Aluminum	8.19E+03	0.03	0.01	0.00	0.04	0.25%
12	1	Surface	Antimony	5.04E-01	0.00	0.01		0.02	0.11%
12	1	Surface	Arsenic	1.34E+01	0.16	0.05	0.00	0.20	1.14%
12	1	Surface	Barium	1.04E+02	0.00	0.01	0.00	0.01	0.08%
12	1	Surface	Beryllium	6.72E+00	0.01	0.11	0.00	0.13	0.72%
12	1	Surface	Cadmium	1.02E+00	0.00	0.00	0.00	0.01	0.03%
12	1	Surface	Chromium	6.33E+01	0.00	0.01		0.01	0.03%
12	1	Surface	Cobalt	9.16E+00	0.11	0.05	0.00	0.16	0.90%
12	1	Surface	Iron	3.01E+04	0.15	0.07		0.22	1.26%
12	1	Surface	Manganese	1.01E+03	0.03	0.01	0.02	0.05	0.29%
12	1	Surface	Mercury	8.80E+00	0.10	0.71		0.81	4.62%
12	1	Surface	Molybdenum	1.74E+01	0.01	0.01		0.02	0.10%
12	1	Surface	Nickel	7.74E+01	0.01	0.13	0.00	0.15	0.83%
12	1	Surface	Silver	1.10E+01	0.01	0.08		0.08	0.47%
12	1	Surface	Thallium	1.03E+00	0.04	0.02		0.07	0.38%
12	1	Surface	Uranium	3.76E+02	0.44	0.21	0.00	0.65	3.68%
12	1	Surface	Vanadium	2.80E+01	1.39	13.63	0.00	15.02	85.12%
12	1	Surface	**Totals**		**2.49**	**15.13**	**0.02**	**17.65**	
12	1	Surface	**Percent**		**14.13%**	**85.75%**	**0.13%**		
13	1	Surface	**Totals**					**0.00**	
13	1	Surface	**Percent**						
13	4	Surface	**Totals**					**0.00**	
13	4	Surface	**Percent**						
13	5	Surface	Aluminum	1.13E+04	0.04	0.02	0.00	0.06	11.49%
13	5	Surface	Antimony	8.20E-01	0.01	0.02		0.03	5.81%

SWMU = solid waste management unit
EU = exposure unit
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EPC = exposure point concentration
HI = hazard index

Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	5	Surface	Cadmium	1.20E+00	0.00	0.00	0.00	0.01	1.13%
13	5	Surface	Chromium	1.51E+01	0.00	0.00		0.00	0.26%
13	5	Surface	Nickel	1.17E+02	0.02	0.20	0.00	0.22	41.96%
13	5	Surface	Uranium	1.19E+02	0.14	0.07	0.00	0.21	39.35%
13	5	Surface	**Totals**		**0.21**	**0.31**	**0.00**	**0.52**	
13	5	Surface	**Percent**		**39.89%**	**59.48%**	**0.63%**		
13	6	Surface	**Totals**					**0.00**	
13	6	Surface	**Percent**						
13	9	Surface	Uranium	1.82E+01	0.02	0.01	0.00	0.03	100.00%
13	9	Surface	**Totals**		**0.02**	**0.01**	**0.00**	**0.03**	
13	9	Surface	**Percent**		**67.03%**	**32.82%**	**0.16%**		
13	11	Surface	**Totals**					**0.00**	
13	11	Surface	**Percent**						
14	1	Surface	Arsenic	1.10E+01	0.13	0.04	0.00	0.17	20.06%
14	1	Surface	Chromium	6.36E+01	0.00	0.01		0.01	0.69%
14	1	Surface	Iron	1.89E+04	0.09	0.05		0.14	16.94%
14	1	Surface	Nickel	1.40E+02	0.02	0.24	0.00	0.26	31.97%
14	1	Surface	Silver	1.67E+01	0.01	0.11		0.13	15.20%
14	1	Surface	Uranium	7.21E+01	0.08	0.04	0.00	0.12	15.14%
14	1	Surface	**Totals**		**0.34**	**0.48**	**0.00**	**0.82**	
14	1	Surface	**Percent**		**41.34%**	**58.41%**	**0.25%**		
14	2	Surface	Antimony	3.70E+00	0.03	0.10		0.14	5.36%
14	2	Surface	Arsenic	1.45E+01	0.17	0.05	0.00	0.22	8.55%
14	2	Surface	Beryllium	7.10E-01	0.00	0.01	0.00	0.01	0.52%
14	2	Surface	Chromium	6.65E+01	0.00	0.01		0.01	0.23%
14	2	Surface	Copper	1.76E+02	0.02	0.01		0.02	0.89%
14	2	Surface	Iron	3.72E+04	0.18	0.09		0.28	10.76%
14	2	Surface	Manganese	1.44E+03	0.04	0.01	0.02	0.07	2.87%
14	2	Surface	Mercury	2.67E-01	0.00	0.02		0.02	0.97%
14	2	Surface	Nickel	6.78E+02	0.12	1.15	0.01	1.28	49.99%
14	2	Surface	Uranium	2.93E+02	0.34	0.17	0.00	0.51	19.84%
14	2	Surface	**Totals**		**0.90**	**1.63**	**0.03**	**2.56**	
14	2	Surface	**Percent**		**35.15%**	**63.62%**	**1.23%**		
14	3	Surface	Arsenic	1.30E+01	0.15	0.04	0.00	0.20	7.21%
14	3	Surface	Chromium	7.01E+01	0.00	0.01		0.01	0.23%
14	3	Surface	Copper	1.29E+02	0.01	0.01		0.02	0.62%
14	3	Surface	Iron	3.48E+04	0.17	0.08		0.26	9.51%
14	3	Surface	Manganese	1.06E+03	0.03	0.01	0.02	0.05	1.99%
14	3	Surface	Mercury	7.48E+00	0.09	0.61		0.69	25.59%
14	3	Surface	Molybdenum	2.21E+01	0.02	0.01		0.02	0.84%
14	3	Surface	Nickel	5.76E+02	0.10	0.98	0.01	1.09	40.12%
14	3	Surface	Uranium	2.18E+02	0.25	0.12	0.00	0.38	13.90%
14	3	Surface	**Totals**		**0.82**	**1.87**	**0.02**	**2.71**	
14	3	Surface	**Percent**		**30.11%**	**69.01%**	**0.88%**		
14	4	Surface	Antimony	4.30E+00	0.04	0.12		0.16	5.59%
14	4	Surface	Arsenic	1.33E+01	0.15	0.05	0.00	0.20	7.01%
14	4	Surface	Chromium	7.20E+01	0.00	0.01		0.01	0.23%
14	4	Surface	Copper	3.54E+02	0.03	0.02		0.05	1.61%
14	4	Surface	Iron	3.88E+04	0.19	0.09		0.29	10.08%
14	4	Surface	Mercury	4.87E-01	0.01	0.04		0.05	1.58%
14	4	Surface	Nickel	7.31E+02	0.13	1.24	0.01	1.38	48.29%
14	4	Surface	Silver	1.17E+01	0.01	0.08		0.09	3.08%
14	4	Surface	Uranium	3.72E+02	0.43	0.21	0.00	0.64	22.54%
14	4	Surface	**Totals**		**0.99**	**1.86**	**0.01**	**2.85**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
14	4	Surface	**Percent**		**34.60%**	**65.10%**	**0.29%**		
14	5	Surface	Antimony	2.30E+00	0.02	0.07		0.09	2.54%
14	5	Surface	Arsenic	1.31E+01	0.15	0.04	0.00	0.20	5.86%
14	5	Surface	Cadmium	3.90E+00	0.01	0.01	0.00	0.02	0.57%
14	5	Surface	Chromium	4.70E+01	0.00	0.00		0.00	0.13%
14	5	Surface	Cobalt	1.40E+01	0.16	0.08	0.00	0.24	7.25%
14	5	Surface	Copper	1.34E+02	0.01	0.01		0.02	0.51%
14	5	Surface	Iron	3.92E+04	0.19	0.10		0.29	8.64%
14	5	Surface	Manganese	8.28E+02	0.02	0.01	0.01	0.04	1.25%
14	5	Surface	Mercury	1.09E+01	0.13	0.89		1.01	30.18%
14	5	Surface	Nickel	4.61E+02	0.08	0.78	0.00	0.87	25.90%
14	5	Surface	Silver	1.29E+01	0.01	0.09		0.10	2.88%
14	5	Surface	Thallium	4.10E-01	0.02	0.01		0.03	0.79%
14	5	Surface	Uranium	2.62E+02	0.30	0.15	0.00	0.45	13.50%
14	5	Surface	**Totals**		**1.11**	**2.22**	**0.02**	**3.36**	
14	5	Surface	**Percent**		**33.11%**	**66.25%**	**0.64%**		
14	6	Surface	Antimony	2.70E+00	0.02	0.08		0.10	3.23%
14	6	Surface	Cadmium	8.40E-01	0.00	0.00	0.00	0.00	0.13%
14	6	Surface	Chromium	4.46E+02	0.00	0.04		0.04	1.29%
14	6	Surface	Copper	1.22E+02	0.01	0.01		0.02	0.51%
14	6	Surface	Mercury	3.47E-01	0.00	0.03		0.03	1.04%
14	6	Surface	Nickel	9.63E+02	0.17	1.64	0.01	1.82	58.62%
14	6	Surface	Silver	1.19E+01	0.01	0.08		0.09	2.88%
14	6	Surface	Uranium	5.79E+02	0.67	0.33	0.00	1.00	32.30%
14	6	Surface	**Totals**		**0.89**	**2.20**	**0.01**	**3.10**	
14	6	Surface	**Percent**		**28.68%**	**70.98%**	**0.34%**		
14	7	Surface	Antimony	7.50E-01	0.01	0.02		0.03	0.73%
14	7	Surface	Arsenic	1.13E+01	0.13	0.04	0.00	0.17	4.45%
14	7	Surface	Cadmium	2.70E+00	0.01	0.00	0.00	0.01	0.35%
14	7	Surface	Chromium	6.46E+01	0.00	0.01		0.01	0.15%
14	7	Surface	Mercury	7.82E+00	0.09	0.63		0.72	18.95%
14	7	Surface	Nickel	1.22E+03	0.21	2.08	0.01	2.30	60.31%
14	7	Surface	Uranium	3.33E+02	0.39	0.19	0.00	0.58	15.06%
14	7	Surface	**Totals**		**0.84**	**2.97**	**0.01**	**3.82**	
14	7	Surface	**Percent**		**21.87%**	**77.79%**	**0.34%**		
14	8	Surface	Antimony	6.10E-01	0.01	0.02		0.02	0.79%
14	8	Surface	Arsenic	1.14E+01	0.13	0.04	0.00	0.17	6.01%
14	8	Surface	Chromium	4.60E+01	0.00	0.00		0.00	0.14%
14	8	Surface	Mercury	7.90E+00	0.09	0.64		0.73	25.68%
14	8	Surface	Nickel	6.73E+02	0.12	1.14	0.01	1.27	44.49%
14	8	Surface	Silver	9.63E+00	0.01	0.07		0.07	2.54%
14	8	Surface	Uranium	3.35E+02	0.39	0.19	0.00	0.58	20.34%
14	8	Surface	**Totals**		**0.74**	**2.10**	**0.01**	**2.85**	
14	8	Surface	**Percent**		**26.00%**	**73.73%**	**0.27%**		
14	9	Surface	Antimony	2.00E+00	0.02	0.06		0.07	1.57%
14	9	Surface	Arsenic	1.40E+01	0.16	0.05	0.00	0.21	4.49%
14	9	Surface	Cadmium	9.40E-01	0.00	0.00	0.00	0.00	0.10%
14	9	Surface	Chromium	4.64E+01	0.00	0.00		0.00	0.09%
14	9	Surface	Mercury	1.13E+00	0.01	0.09		0.10	2.22%
14	9	Surface	Nickel	9.43E+02	0.16	1.61	0.01	1.78	37.77%
14	9	Surface	Uranium	1.46E+03	1.70	0.83	0.00	2.53	53.76%
14	9	Surface	**Totals**		**2.06**	**2.64**	**0.01**	**4.71**	
14	9	Surface	**Percent**		**43.69%**	**56.02%**	**0.28%**		
14	10	Surface	Antimony	9.40E-01	0.01	0.03		0.03	0.79%

SWMU = solid waste management unit
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HI = hazard index

Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
14	10	Surface	Arsenic	1.12E+01	0.13	0.04	0.00	0.17	3.86%
14	10	Surface	Chromium	4.19E+01	0.00	0.00		0.00	0.09%
14	10	Surface	Copper	1.41E+02	0.01	0.01		0.02	0.42%
14	10	Surface	Iron	2.75E+04	0.14	0.07		0.20	4.63%
14	10	Surface	Mercury	2.51E+01	0.29	2.03		2.32	53.02%
14	10	Surface	Nickel	6.00E+02	0.10	1.02	0.01	1.13	25.82%
14	10	Surface	Uranium	2.88E+02	0.33	0.16	0.00	0.50	11.37%
14	10	Surface	**Totals**		**1.02**	**3.36**	**0.01**	**4.38**	
14	10	Surface	**Percent**		**23.19%**	**76.66%**	**0.16%**		
15	1	Surface	Antimony	6.40E-01	0.01	0.02		0.02	2.78%
15	1	Surface	Arsenic	1.24E+01	0.14	0.04	0.00	0.19	21.79%
15	1	Surface	Chromium	5.61E+01	0.00	0.00		0.01	0.59%
15	1	Surface	Copper	1.95E+02	0.02	0.01		0.03	2.95%
15	1	Surface	Iron	2.95E+04	0.15	0.07		0.22	25.57%
15	1	Surface	Nickel	1.33E+02	0.02	0.23	0.00	0.25	29.26%
15	1	Surface	Silver	1.23E+01	0.01	0.08		0.09	10.80%
15	1	Surface	Uranium	3.09E+01	0.04	0.02	0.00	0.05	6.26%
15	1	Surface	**Totals**		**0.38**	**0.47**	**0.00**	**0.85**	
15	1	Surface	**Percent**		**44.49%**	**55.28%**	**0.23%**		
15	2	Surface	Antimony	6.60E-01	0.01	0.02		0.02	1.21%
15	2	Surface	Arsenic	1.63E+01	0.19	0.06	0.00	0.24	12.08%
15	2	Surface	Chromium	5.90E+01	0.00	0.01		0.01	0.26%
15	2	Surface	Iron	3.89E+04	0.19	0.09		0.29	14.20%
15	2	Surface	Mercury	9.33E+00	0.11	0.76		0.86	42.66%
15	2	Surface	Nickel	1.97E+02	0.03	0.34	0.00	0.37	18.35%
15	2	Surface	Uranium	1.32E+02	0.15	0.07	0.00	0.23	11.24%
15	2	Surface	**Totals**		**0.68**	**1.34**	**0.00**	**2.03**	
15	2	Surface	**Percent**		**33.69%**	**66.16%**	**0.15%**		
15	3	Surface	Antimony	2.45E+01	0.21	0.69		0.91	17.97%
15	3	Surface	Arsenic	2.60E+01	0.30	0.09	0.00	0.39	7.74%
15	3	Surface	Beryllium	7.60E-01	0.00	0.01	0.00	0.01	0.28%
15	3	Surface	Cadmium	1.19E+01	0.04	0.02	0.00	0.06	1.16%
15	3	Surface	Chromium	7.53E+01	0.00	0.01		0.01	0.13%
15	3	Surface	Cobalt	3.41E+01	0.40	0.19	0.00	0.59	11.74%
15	3	Surface	Copper	1.40E+03	0.12	0.06		0.18	3.58%
15	3	Surface	Iron	9.20E+04	0.46	0.22		0.68	13.47%
15	3	Surface	Manganese	1.60E+03	0.04	0.02	0.03	0.08	1.62%
15	3	Surface	Mercury	2.74E+00	0.03	0.22		0.25	5.02%
15	3	Surface	Molybdenum	1.70E+01	0.01	0.01		0.02	0.35%
15	3	Surface	Nickel	7.57E+02	0.13	1.29	0.01	1.43	28.22%
15	3	Surface	Selenium	2.65E+01	0.02	0.01	0.00	0.03	0.54%
15	3	Surface	Silver	3.20E+00	0.00	0.02		0.02	0.48%
15	3	Surface	Uranium	2.16E+02	0.25	0.12	0.00	0.37	7.39%
15	3	Surface	Zinc	8.79E+02	0.01	0.00		0.02	0.30%
15	3	Surface	**Totals**		**2.03**	**2.98**	**0.04**	**5.05**	
15	3	Surface	**Percent**		**40.11%**	**59.08%**	**0.81%**		
15	4	Surface	Antimony	7.40E+00	0.06	0.21		0.27	4.68%
15	4	Surface	Arsenic	3.47E+01	0.40	0.12	0.00	0.52	8.91%
15	4	Surface	Cadmium	1.40E+00	0.00	0.00	0.00	0.01	0.12%
15	4	Surface	Chromium	1.02E+02	0.00	0.01		0.01	0.16%
15	4	Surface	Copper	7.05E+02	0.06	0.03		0.09	1.56%
15	4	Surface	Iron	7.81E+04	0.39	0.19		0.58	9.87%
15	4	Surface	Manganese	1.54E+03	0.04	0.01	0.03	0.08	1.34%
15	4	Surface	Mercury	1.41E+01	0.16	1.14		1.30	22.29%

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Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	4	Surface	Nickel	1.37E+03	0.24	2.34	0.01	2.59	44.24%
15	4	Surface	Silver	1.46E+01	0.01	0.10		0.11	1.87%
15	4	Surface	Uranium	1.57E+02	0.18	0.09	0.00	0.27	4.62%
15	4	Surface	Zinc	1.19E+03	0.01	0.01		0.02	0.35%
15	4	Surface	**Totals**		**1.57**	**4.25**	**0.04**	**5.85**	
15	4	Surface	**Percent**		**26.74%**	**72.57%**	**0.68%**		
15	5	Surface	Antimony	3.10E+00	0.03	0.09		0.11	4.51%
15	5	Surface	Arsenic	1.28E+01	0.15	0.04	0.00	0.19	7.56%
15	5	Surface	Cadmium	1.50E+00	0.01	0.00	0.00	0.01	0.29%
15	5	Surface	Chromium	4.28E+01	0.00	0.00		0.00	0.15%
15	5	Surface	Copper	5.63E+03	0.49	0.24		0.73	28.64%
15	5	Surface	Mercury	3.38E-01	0.00	0.03		0.03	1.23%
15	5	Surface	Nickel	5.10E+02	0.09	0.87	0.00	0.96	37.78%
15	5	Surface	Silver	1.46E+01	0.01	0.10		0.11	4.30%
15	5	Surface	Uranium	2.13E+02	0.25	0.12	0.00	0.37	14.49%
15	5	Surface	Zinc	1.52E+03	0.02	0.01		0.03	1.03%
15	5	Surface	**Totals**		**1.04**	**1.50**	**0.01**	**2.54**	
15	5	Surface	**Percent**		**40.76%**	**59.00%**	**0.24%**		
15	6	Surface	Antimony	5.10E+00	0.04	0.14		0.19	10.47%
15	6	Surface	Arsenic	1.24E+01	0.14	0.04	0.00	0.19	10.36%
15	6	Surface	Cadmium	1.50E+00	0.01	0.00	0.00	0.01	0.41%
15	6	Surface	Chromium	5.80E+01	0.00	0.01		0.01	0.29%
15	6	Surface	Cobalt	1.62E+01	0.19	0.09	0.00	0.28	15.62%
15	6	Surface	Copper	4.23E+02	0.04	0.02		0.05	3.03%
15	6	Surface	Iron	3.15E+04	0.16	0.08		0.23	12.91%
15	6	Surface	Mercury	4.10E-01	0.00	0.03		0.04	2.10%
15	6	Surface	Nickel	3.24E+02	0.06	0.55	0.00	0.61	33.84%
15	6	Surface	Silver	1.09E+01	0.01	0.07		0.08	4.54%
15	6	Surface	Uranium	6.70E+01	0.08	0.04	0.00	0.12	6.42%
15	6	Surface	**Totals**		**0.72**	**1.08**	**0.01**	**1.80**	
15	6	Surface	**Percent**		**39.95%**	**59.71%**	**0.34%**		
15	7	Surface	Antimony	7.50E-01	0.01	0.02		0.03	1.43%
15	7	Surface	Arsenic	1.61E+01	0.19	0.05	0.00	0.24	12.48%
15	7	Surface	Cadmium	1.00E+00	0.00	0.00	0.00	0.00	0.25%
15	7	Surface	Chromium	7.87E+01	0.00	0.01		0.01	0.36%
15	7	Surface	Copper	7.33E+02	0.06	0.03		0.09	4.90%
15	7	Surface	Iron	3.42E+04	0.17	0.08		0.25	13.05%
15	7	Surface	Manganese	1.11E+03	0.03	0.01	0.02	0.06	2.90%
15	7	Surface	Nickel	5.59E+02	0.10	0.95	0.01	1.05	54.31%
15	7	Surface	Silver	1.29E+01	0.01	0.09		0.10	4.98%
15	7	Surface	Uranium	5.39E+01	0.06	0.03	0.00	0.09	4.81%
15	7	Surface	Zinc	5.87E+02	0.01	0.00		0.01	0.52%
15	7	Surface	**Totals**		**0.63**	**1.28**	**0.02**	**1.94**	
15	7	Surface	**Percent**		**32.64%**	**66.11%**	**1.25%**		
15	8	Surface	Antimony	5.40E+00	0.05	0.15		0.20	9.70%
15	8	Surface	Arsenic	1.17E+01	0.13	0.04	0.00	0.18	8.49%
15	8	Surface	Chromium	7.74E+01	0.00	0.01		0.01	0.34%
15	8	Surface	Copper	1.62E+02	0.01	0.01		0.02	1.02%
15	8	Surface	Iron	2.83E+04	0.14	0.07		0.21	10.13%
15	8	Surface	Mercury	1.00E+01	0.12	0.81		0.93	45.07%
15	8	Surface	Nickel	1.82E+02	0.03	0.31	0.00	0.34	16.60%
15	8	Surface	Silver	1.36E+01	0.01	0.09		0.10	4.93%
15	8	Surface	Uranium	4.46E+01	0.05	0.03	0.00	0.08	3.73%
15	8	Surface	**Totals**		**0.55**	**1.52**	**0.00**	**2.06**	

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HI = hazard index

Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	8	Surface	**Percent**		**26.43%**	**73.45%**	**0.12%**		
15	9	Surface	Arsenic	1.10E+01	0.13	0.04	0.00	0.17	19.64%
15	9	Surface	Chromium	9.56E+01	0.00	0.01		0.01	1.01%
15	9	Surface	Copper	1.36E+02	0.01	0.01		0.02	2.08%
15	9	Surface	Iron	2.76E+04	0.14	0.07		0.20	24.13%
15	9	Surface	Nickel	1.49E+02	0.03	0.25	0.00	0.28	33.19%
15	9	Surface	Silver	1.54E+01	0.01	0.10		0.12	13.68%
15	9	Surface	Uranium	3.07E+01	0.04	0.02	0.00	0.05	6.27%
15	9	Surface	**Totals**		**0.35**	**0.49**	**0.00**	**0.85**	
15	9	Surface	**Percent**		**41.28%**	**58.48%**	**0.24%**		
15	10	Surface	Chromium	3.55E+01	0.00	0.00		0.00	0.27%
15	10	Surface	Mercury	7.84E+00	0.09	0.64		0.73	60.67%
15	10	Surface	Nickel	1.46E+02	0.03	0.25	0.00	0.27	22.94%
15	10	Surface	Silver	1.08E+01	0.01	0.07		0.08	6.78%
15	10	Surface	Uranium	6.47E+01	0.07	0.04	0.00	0.11	9.35%
15	10	Surface	**Totals**		**0.20**	**1.00**	**0.00**	**1.20**	
15	10	Surface	**Percent**		**16.61%**	**83.27%**	**0.13%**		
16	1	Surface	**Totals**					**0.00**	
16	1	Surface	**Percent**						
16	2	Surface	Beryllium	8.40E-01	0.00	0.01	0.00	0.02	27.07%
16	2	Surface	Chromium	2.04E+01	0.00	0.00		0.00	3.13%
16	2	Surface	Nickel	2.16E+01	0.00	0.04	0.00	0.04	69.80%
16	2	Surface	**Totals**		**0.01**	**0.05**	**0.00**	**0.06**	
16	2	Surface	**Percent**		**9.02%**	**90.58%**	**0.40%**		
16	3	Surface	**Totals**					**0.00**	
16	3	Surface	**Percent**						
16	4	Surface	**Totals**					**0.00**	
16	4	Surface	**Percent**						
19	1	Surface	Beryllium	1.10E+00	0.00	0.02	0.00	0.02	22.97%
19	1	Surface	Cadmium	1.20E+00	0.00	0.00	0.00	0.01	6.56%
19	1	Surface	Thallium	9.80E-01	0.04	0.02		0.06	70.47%
19	1	Surface	**Totals**		**0.05**	**0.04**	**0.00**	**0.09**	
19	1	Surface	**Percent**		**54.07%**	**45.77%**	**0.16%**		
26	1	Surface	Arsenic	1.29E+01	0.15	0.04	0.00	0.19	39.64%
26	1	Surface	Beryllium	6.69E-01	0.00	0.01	0.00	0.01	2.57%
26	1	Surface	Cadmium	1.99E+00	0.01	0.00	0.00	0.01	2.01%
26	1	Surface	Chromium	1.90E+01	0.00	0.00		0.00	0.35%
26	1	Surface	Mercury	1.66E-01	0.00	0.01		0.02	3.15%
26	1	Surface	Nickel	1.76E+01	0.00	0.03	0.00	0.03	6.78%
26	1	Surface	Uranium	1.29E+02	0.15	0.07	0.00	0.22	45.51%
26	1	Surface	**Totals**		**0.31**	**0.18**	**0.00**	**0.49**	
26	1	Surface	**Percent**		**63.71%**	**36.00%**	**0.29%**		
26	2	Surface	Aluminum	2.17E+04	0.08	0.04	0.00	0.12	0.54%
26	2	Surface	Arsenic	4.72E+01	0.55	0.16	0.00	0.71	3.33%
26	2	Surface	Barium	1.49E+02	0.00	0.02	0.00	0.02	0.10%
26	2	Surface	Beryllium	9.69E+00	0.02	0.16	0.00	0.18	0.85%
26	2	Surface	Cadmium	2.38E+00	0.01	0.00	0.00	0.01	0.05%
26	2	Surface	Chromium	3.90E+01	0.00	0.00		0.00	0.02%
26	2	Surface	Cobalt	5.20E+01	0.60	0.29	0.01	0.90	4.24%
26	2	Surface	Copper	1.31E+02	0.01	0.01		0.02	0.08%
26	2	Surface	Iron	5.32E+04	0.26	0.13		0.39	1.84%
26	2	Surface	Nickel	1.13E+02	0.02	0.19	0.00	0.21	1.00%
26	2	Surface	Thallium	1.39E+01	0.60	0.30		0.90	4.22%
26	2	Surface	Uranium	6.46E+02	0.75	0.37	0.00	1.12	5.23%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
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HI = hazard index

Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
26	2	Surface	Vanadium	3.13E+01	1.55	15.19	0.00	16.74	78.49%
26	2	Surface	**Totals**		**4.45**	**16.86**	**0.02**	**21.33**	
26	2	Surface	**Percent**		**20.87%**	**79.05%**	**0.08%**		
26	3	Surface	Aluminum	9.55E+03	0.03	0.02	0.00	0.05	0.23%
26	3	Surface	Antimony	1.40E+00	0.01	0.04		0.05	0.24%
26	3	Surface	Arsenic	5.09E+01	0.59	0.17	0.00	0.77	3.50%
26	3	Surface	Barium	4.48E+02	0.01	0.05	0.00	0.06	0.29%
26	3	Surface	Beryllium	2.54E+00	0.00	0.04	0.00	0.05	0.22%
26	3	Surface	Cadmium	2.34E+00	0.01	0.00	0.00	0.01	0.05%
26	3	Surface	Chromium	3.25E+01	0.00	0.00		0.00	0.01%
26	3	Surface	Cobalt	1.21E+01	0.14	0.07	0.00	0.21	0.96%
26	3	Surface	Mercury	3.87E-01	0.00	0.03		0.04	0.16%
26	3	Surface	Naphthalene	1.32E+00	0.00	0.00	0.01	0.01	0.06%
26	3	Surface	Nickel	2.97E+01	0.01	0.05	0.00	0.06	0.26%
26	3	Surface	Silver	2.59E+01	0.02	0.18		0.19	0.89%
26	3	Surface	Thallium	6.00E-01	0.03	0.01		0.04	0.18%
26	3	Surface	Uranium	9.88E+01	0.11	0.06	0.00	0.17	0.78%
26	3	Surface	Vanadium	3.77E+01	1.87	18.31	0.00	20.18	92.18%
26	3	Surface	**Totals**		**2.83**	**19.04**	**0.02**	**21.90**	
26	3	Surface	**Percent**		**12.94%**	**86.97%**	**0.09%**		
26	4	Surface	Aluminum	1.07E+04	0.04	0.02	0.00	0.06	2.55%
26	4	Surface	Antimony	6.00E-01	0.01	0.02		0.02	0.99%
26	4	Surface	Beryllium	6.91E-01	0.00	0.01	0.00	0.01	0.58%
26	4	Surface	Cadmium	1.99E+00	0.01	0.00	0.00	0.01	0.44%
26	4	Surface	Chromium	8.57E+01	0.00	0.01		0.01	0.34%
26	4	Surface	Copper	1.16E+02	0.01	0.00		0.01	0.67%
26	4	Surface	Mercury	3.07E+00	0.04	0.25		0.28	12.72%
26	4	Surface	Nickel	7.54E+01	0.01	0.13	0.00	0.14	6.36%
26	4	Surface	Uranium	9.75E+02	1.13	0.55	0.00	1.69	75.35%
26	4	Surface	**Totals**		**1.24**	**0.99**	**0.01**	**2.24**	
26	4	Surface	**Percent**		**55.40%**	**44.37%**	**0.24%**		
47	1	Surface	Aluminum	1.50E+04	0.05	0.03	0.00	0.08	5.14%
47	1	Surface	Antimony	9.00E-01	0.01	0.03		0.03	2.14%
47	1	Surface	Arsenic	4.52E+01	0.52	0.15	0.00	0.68	43.62%
47	1	Surface	Beryllium	7.00E-01	0.00	0.01	0.00	0.01	0.84%
47	1	Surface	Cadmium	4.25E+00	0.01	0.01	0.00	0.02	1.34%
47	1	Surface	Chromium	5.39E+01	0.00	0.00		0.00	0.31%
47	1	Surface	Cobalt	1.43E+01	0.17	0.08	0.00	0.25	15.96%
47	1	Surface	Iron	2.95E+04	0.15	0.07		0.22	14.00%
47	1	Surface	Naphthalene	1.90E+00	0.00	0.00	0.02	0.02	1.18%
47	1	Surface	Nickel	8.25E+01	0.01	0.14	0.00	0.16	9.97%
47	1	Surface	Pyrene	1.11E+02	0.01	0.02	0.00	0.03	1.90%
47	1	Surface	Uranium	3.23E+01	0.04	0.02	0.00	0.06	3.58%
47	1	Surface	**Totals**		**0.98**	**0.56**	**0.03**	**1.56**	
47	1	Surface	**Percent**		**62.67%**	**35.67%**	**1.66%**		
74	1	Surface	**Totals**					**0.00**	
74	1	Surface	**Percent**						
75	1	Surface	Cadmium	1.10E+00	0.00	0.00	0.00	0.01	2.46%
75	1	Surface	Chromium	7.17E+01	0.00	0.01		0.01	2.92%
75	1	Surface	Copper	3.15E+02	0.03	0.01		0.04	18.55%
75	1	Surface	Nickel	8.87E+01	0.02	0.15	0.00	0.17	76.07%
75	1	Surface	**Totals**		**0.05**	**0.17**	**0.00**	**0.22**	
75	1	Surface	**Percent**		**21.28%**	**78.31%**	**0.41%**		
76	1	Surface	Barium	2.69E+02	0.00	0.03	0.00	0.04	100.00%

SWMU = solid waste management unit
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Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
76	1	Surface	**Totals**		**0.00**	**0.03**	**0.00**	**0.04**	
76	1	Surface	**Percent**		**12.36%**	**86.47%**	**1.16%**		
78	1	Surface	Cadmium	2.36E+00	0.01	0.00	0.00	0.01	5.52%
78	1	Surface	Chromium	3.75E+01	0.00	0.00		0.00	1.60%
78	1	Surface	Naphthalene	1.60E+01	0.00	0.01	0.15	0.15	73.63%
78	1	Surface	Nickel	2.15E+01	0.00	0.04	0.00	0.04	19.25%
78	1	Surface	**Totals**		**0.01**	**0.05**	**0.15**	**0.21**	
78	1	Surface	**Percent**		**7.04%**	**23.70%**	**69.26%**		
80	1	Surface	Antimony	9.10E-01	0.01	0.03		0.03	0.34%
80	1	Surface	Beryllium	7.80E-01	0.00	0.01	0.00	0.01	0.15%
80	1	Surface	Chromium	1.65E+02	0.00	0.01		0.01	0.15%
80	1	Surface	Mercury	4.50E-01	0.01	0.04		0.04	0.42%
80	1	Surface	Uranium	5.72E+03	6.63	3.25	0.02	9.89	98.95%
80	1	Surface	**Totals**		**6.65**	**3.34**	**0.02**	**10.00**	
80	1	Surface	**Percent**		**66.47%**	**33.37%**	**0.16%**		
81	1	Surface	Aluminum	9.57E+03	0.03	0.02	0.00	0.05	0.41%
81	1	Surface	Arsenic	1.03E+01	0.12	0.03	0.00	0.15	1.24%
81	1	Surface	Beryllium	7.57E-01	0.00	0.01	0.00	0.01	0.11%
81	1	Surface	Chromium	8.62E+01	0.00	0.01		0.01	0.06%
81	1	Surface	Mercury	8.33E+00	0.10	0.67		0.77	6.23%
81	1	Surface	Nickel	7.29E+01	0.01	0.12	0.00	0.14	1.11%
81	1	Surface	Silver	2.70E+00	0.00	0.02		0.02	0.16%
81	1	Surface	Uranium	6.50E+03	7.53	3.69	0.02	11.23	90.67%
81	1	Surface	**Totals**		**7.79**	**4.58**	**0.02**	**12.39**	
81	1	Surface	**Percent**		**62.91%**	**36.93%**	**0.17%**		
99	1	Surface	Chromium	5.51E+01	0.00	0.00		0.00	0.45%
99	1	Surface	Mercury	9.53E+00	0.11	0.77		0.88	80.45%
99	1	Surface	Nickel	7.02E+01	0.01	0.12	0.00	0.13	12.06%
99	1	Surface	Silver	1.03E+01	0.01	0.07		0.08	7.04%
99	1	Surface	**Totals**		**0.13**	**0.97**	**0.00**	**1.10**	
99	1	Surface	**Percent**		**11.84%**	**88.10%**	**0.06%**		
138	1	Surface	Antimony	5.39E+00	0.05	0.15		0.20	11.09%
138	1	Surface	Arsenic	1.06E+01	0.12	0.04	0.00	0.16	8.86%
138	1	Surface	Cadmium	5.42E+00	0.02	0.01	0.00	0.03	1.48%
138	1	Surface	Chromium	5.39E+01	0.00	0.00		0.00	0.27%
138	1	Surface	Mercury	1.30E+01	0.15	1.05		1.20	66.75%
138	1	Surface	Nickel	7.04E+01	0.01	0.12	0.00	0.13	7.36%
138	1	Surface	Silver	1.01E+01	0.01	0.07		0.08	4.20%
138	1	Surface	**Totals**		**0.36**	**1.44**	**0.00**	**1.80**	
138	1	Surface	**Percent**		**19.90%**	**80.01%**	**0.09%**		
138	2	Surface	Nickel	7.99E+01	0.01	0.14	0.00	0.15	65.77%
138	2	Surface	Silver	1.04E+01	0.01	0.07		0.08	34.23%
138	2	Surface	**Totals**		**0.02**	**0.21**	**0.00**	**0.23**	
138	2	Surface	**Percent**		**9.24%**	**90.45%**	**0.32%**		
153	1	Surface	**Totals**					**0.00**	
153	1	Surface	**Percent**						
154	1	Surface	Arsenic	1.52E+01	0.18	0.05	0.00	0.23	47.12%
154	1	Surface	Chromium	4.28E+01	0.00	0.00		0.00	0.79%
154	1	Surface	Nickel	9.89E+01	0.02	0.17	0.00	0.19	38.47%
154	1	Surface	Uranium	3.82E+01	0.04	0.02	0.00	0.07	13.63%
154	1	Surface	**Totals**		**0.24**	**0.25**	**0.00**	**0.48**	
154	1	Surface	**Percent**		**48.99%**	**50.64%**	**0.38%**		
154	2	Surface	**Totals**					**0.00**	
154	2	Surface	**Percent**						

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Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
155	1	Surface	Antimony	3.65E+00	0.03	0.10		0.14	37.01%
155	1	Surface	Chromium	3.47E+01	0.00	0.00		0.00	0.85%
155	1	Surface	Nickel	7.65E+01	0.01	0.13	0.00	0.14	39.42%
155	1	Surface	Silver	1.11E+01	0.01	0.08		0.08	22.72%
155	1	Surface	**Totals**		**0.05**	**0.31**	**0.00**	**0.37**	
155	1	Surface	**Percent**		**14.44%**	**85.37%**	**0.19%**		
156	1	Surface	Chromium	4.90E+01	0.00	0.00		0.00	0.36%
156	1	Surface	Manganese	2.83E+03	0.07	0.03	0.05	0.14	11.83%
156	1	Surface	Mercury	9.87E+00	0.11	0.80		0.91	75.00%
156	1	Surface	Nickel	6.16E+01	0.01	0.10	0.00	0.12	9.53%
156	1	Surface	Uranium	2.32E+01	0.03	0.01	0.00	0.04	3.29%
156	1	Surface	**Totals**		**0.22**	**0.95**	**0.05**	**1.22**	
156	1	Surface	**Percent**		**18.24%**	**77.91%**	**3.85%**		
158	1	Surface	Antimony	5.23E-01	0.00	0.01		0.02	1.14%
158	1	Surface	Arsenic	1.01E+01	0.12	0.03	0.00	0.15	8.95%
158	1	Surface	Barium	2.19E+02	0.00	0.03	0.00	0.03	1.81%
158	1	Surface	Chromium	6.07E+01	0.00	0.01		0.01	0.32%
158	1	Surface	Cobalt	1.62E+01	0.19	0.09	0.00	0.28	16.58%
158	1	Surface	Manganese	9.91E+02	0.02	0.01	0.02	0.05	2.96%
158	1	Surface	Mercury	1.05E+01	0.12	0.85		0.97	56.93%
158	1	Surface	Nickel	7.28E+01	0.01	0.12	0.00	0.14	8.07%
158	1	Surface	Thallium	3.12E-01	0.01	0.01		0.02	1.19%
158	1	Surface	Uranium	2.03E+01	0.02	0.01	0.00	0.04	2.06%
158	1	Surface	**Totals**		**0.51**	**1.17**	**0.02**	**1.70**	
158	1	Surface	**Percent**		**29.92%**	**68.90%**	**1.18%**		
160	1	Surface	Antimony	6.80E-01	0.01	0.02		0.03	100.00%
160	1	Surface	**Totals**		**0.01**	**0.02**		**0.03**	
160	1	Surface	**Percent**		**23.45%**	**76.55%**			
163	1	Surface	Chromium	4.94E+01	0.00	0.00		0.00	100.00%
163	1	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
163	1	Surface	**Percent**		**2.59%**	**97.41%**			
165	1	Surface	Antimony	2.20E+00	0.02	0.06		0.08	4.88%
165	1	Surface	Arsenic	6.35E+01	0.74	0.22	0.00	0.96	57.24%
165	1	Surface	Barium	5.84E+02	0.01	0.07	0.00	0.08	4.92%
165	1	Surface	Beryllium	6.82E-01	0.00	0.01	0.00	0.01	0.77%
165	1	Surface	Chromium	3.74E+01	0.00	0.00		0.00	0.20%
165	1	Surface	Mercury	3.78E-01	0.00	0.03		0.04	2.10%
165	1	Surface	Naphthalene	1.61E+00	0.00	0.00	0.01	0.02	0.93%
165	1	Surface	Nickel	3.47E+01	0.01	0.06	0.00	0.07	3.92%
165	1	Surface	Silver	3.09E+01	0.02	0.21		0.23	13.90%
165	1	Surface	Uranium	1.08E+02	0.12	0.06	0.00	0.19	11.13%
165	1	Surface	**Totals**		**0.92**	**0.73**	**0.02**	**1.67**	
165	1	Surface	**Percent**		**55.30%**	**43.52%**	**1.18%**		
169	1	Surface	Aluminum	1.42E+04	0.05	0.02	0.00	0.08	2.81%
169	1	Surface	Antimony	1.30E+00	0.01	0.04		0.05	1.78%
169	1	Surface	Arsenic	2.03E+01	0.24	0.07	0.00	0.31	11.31%
169	1	Surface	Beryllium	8.00E-01	0.00	0.01	0.00	0.02	0.56%
169	1	Surface	Chromium	2.15E+02	0.00	0.02		0.02	0.71%
169	1	Surface	Copper	3.74E+02	0.03	0.02		0.05	1.80%
169	1	Surface	Iron	4.16E+04	0.21	0.10		0.31	11.39%
169	1	Surface	Mercury	7.87E+00	0.09	0.64		0.73	27.00%
169	1	Surface	Nickel	5.49E+02	0.10	0.93	0.00	1.03	38.31%
169	1	Surface	Thallium	4.60E-01	0.02	0.01		0.03	1.10%
169	1	Surface	Uranium	5.03E+01	0.06	0.03	0.00	0.09	3.22%

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Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
169	1	Surface	**Totals**		**0.80**	**1.89**	**0.01**	**2.70**	
169	1	Surface	**Percent**		**29.69%**	**69.99%**	**0.32%**		
170	1	Surface	**Totals**					**0.00**	
170	1	Surface	**Percent**						
176	1	Surface	Arsenic	4.86E+01	0.56	0.17	0.00	0.73	74.96%
176	1	Surface	Chromium	4.27E+01	0.00	0.00		0.00	0.39%
176	1	Surface	Nickel	1.07E+02	0.02	0.18	0.00	0.20	20.72%
176	1	Surface	Uranium	2.21E+01	0.03	0.01	0.00	0.04	3.92%
176	1	Surface	**Totals**		**0.61**	**0.36**	**0.00**	**0.97**	
176	1	Surface	**Percent**		**62.28%**	**37.34%**	**0.38%**		
180	1	Surface	Antimony	5.80E-01	0.01	0.02		0.02	1.03%
180	1	Surface	Arsenic	7.48E+01	0.87	0.25	0.00	1.13	54.00%
180	1	Surface	Chromium	5.54E+01	0.00	0.00		0.00	0.24%
180	1	Surface	Mercury	8.28E+00	0.10	0.67		0.77	36.80%
180	1	Surface	Nickel	8.77E+01	0.02	0.15	0.00	0.17	7.93%
180	1	Surface	**Totals**		**0.98**	**1.10**	**0.00**	**2.08**	
180	1	Surface	**Percent**		**47.17%**	**52.60%**	**0.23%**		
180	2	Surface	Antimony	4.58E-01	0.00	0.01		0.02	4.59%
180	2	Surface	Arsenic	1.27E+01	0.15	0.04	0.00	0.19	51.45%
180	2	Surface	Chromium	4.46E+01	0.00	0.00		0.00	1.08%
180	2	Surface	Nickel	8.42E+01	0.01	0.14	0.00	0.16	42.88%
180	2	Surface	**Totals**		**0.17**	**0.20**	**0.00**	**0.37**	
180	2	Surface	**Percent**		**44.68%**	**54.92%**	**0.39%**		
180	3	Surface	Arsenic	1.34E+01	0.15	0.05	0.00	0.20	48.03%
180	3	Surface	Chromium	4.69E+01	0.00	0.00		0.00	1.01%
180	3	Surface	Nickel	6.77E+01	0.01	0.12	0.00	0.13	30.52%
180	3	Surface	Silver	1.14E+01	0.01	0.08		0.09	20.45%
180	3	Surface	**Totals**		**0.17**	**0.24**	**0.00**	**0.42**	
180	3	Surface	**Percent**		**41.72%**	**57.96%**	**0.32%**		
180	4	Surface	Arsenic	1.15E+01	0.13	0.04	0.00	0.17	0.65%
180	4	Surface	Barium	2.13E+02	0.00	0.03	0.00	0.03	0.11%
180	4	Surface	Beryllium	1.60E+00	0.00	0.03	0.00	0.03	0.11%
180	4	Surface	Chromium	6.00E+01	0.00	0.01		0.01	0.02%
180	4	Surface	Iron	1.54E+04	0.08	0.04		0.11	0.43%
180	4	Surface	Manganese	7.09E+02	0.02	0.01	0.01	0.04	0.14%
180	4	Surface	Nickel	6.46E+01	0.01	0.11	0.00	0.12	0.46%
180	4	Surface	Silver	9.68E+00	0.01	0.07		0.07	0.27%
180	4	Surface	Vanadium	4.85E+01	2.41	23.58	0.00	25.99	97.81%
180	4	Surface	**Totals**		**2.66**	**23.90**	**0.01**	**26.57**	
180	4	Surface	**Percent**		**10.01%**	**89.94%**	**0.05%**		
181	1	Surface	Chromium	2.29E+01	0.00	0.00		0.00	0.90%
181	1	Surface	Thallium	3.50E+00	0.15	0.07		0.23	99.10%
181	1	Surface	**Totals**		**0.15**	**0.08**		**0.23**	
181	1	Surface	**Percent**		**66.55%**	**33.45%**			
194	1	Surface	Antimony	1.50E+00	0.01	0.04		0.06	6.37%
194	1	Surface	Chromium	3.87E+01	0.00	0.00		0.00	0.40%
194	1	Surface	Mercury	6.71E+00	0.08	0.54		0.62	71.22%
194	1	Surface	Nickel	5.84E+01	0.01	0.10	0.00	0.11	12.62%
194	1	Surface	Silver	1.09E+01	0.01	0.07		0.08	9.40%
194	1	Surface	**Totals**		**0.11**	**0.76**	**0.00**	**0.87**	
194	1	Surface	**Percent**		**12.45%**	**87.49%**	**0.06%**		
194	2	Surface	Chromium	5.96E+01	0.00	0.01		0.01	3.73%
194	2	Surface	Silver	1.31E+01	0.01	0.09		0.10	68.78%
194	2	Surface	Uranium	2.28E+01	0.03	0.01	0.00	0.04	27.49%

SWMU = solid waste management unit
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HI = hazard index

Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	2	Surface	**Totals**		**0.04**	**0.11**	**0.00**	**0.14**	
194	2	Surface	**Percent**		**24.90%**	**75.06%**	**0.04%**		
194	3	Surface	Antimony	6.90E-01	0.01	0.02		0.03	6.91%
194	3	Surface	Arsenic	1.46E+01	0.17	0.05	0.00	0.22	59.53%
194	3	Surface	Chromium	3.90E+01	0.00	0.00		0.00	0.94%
194	3	Surface	Nickel	6.40E+01	0.01	0.11	0.00	0.12	32.62%
194	3	Surface	**Totals**		**0.19**	**0.18**	**0.00**	**0.37**	
194	3	Surface	**Percent**		**50.50%**	**49.13%**	**0.37%**		
194	4	Surface	Chromium	4.84E+01	0.00	0.00		0.00	0.41%
194	4	Surface	Mercury	8.92E+00	0.10	0.72		0.83	78.76%
194	4	Surface	Nickel	6.91E+01	0.01	0.12	0.00	0.13	12.41%
194	4	Surface	Silver	1.18E+01	0.01	0.08		0.09	8.42%
194	4	Surface	**Totals**		**0.12**	**0.92**	**0.00**	**1.05**	
194	4	Surface	**Percent**		**11.79%**	**88.15%**	**0.06%**		
194	5	Surface	Chromium	4.58E+01	0.00	0.00		0.00	0.39%
194	5	Surface	Mercury	8.69E+00	0.10	0.70		0.80	77.05%
194	5	Surface	Nickel	7.54E+01	0.01	0.13	0.00	0.14	13.61%
194	5	Surface	Silver	1.25E+01	0.01	0.08		0.09	8.94%
194	5	Surface	**Totals**		**0.12**	**0.92**	**0.00**	**1.04**	
194	5	Surface	**Percent**		**11.73%**	**88.20%**	**0.07%**		
194	6	Surface	Chromium	3.70E+01	0.00	0.00		0.00	1.17%
194	6	Surface	Manganese	1.08E+03	0.03	0.01	0.02	0.05	19.33%
194	6	Surface	Nickel	8.06E+01	0.01	0.14	0.00	0.15	53.42%
194	6	Surface	Silver	9.89E+00	0.01	0.07		0.07	26.09%
194	6	Surface	**Totals**		**0.05**	**0.22**	**0.02**	**0.28**	
194	6	Surface	**Percent**		**16.80%**	**76.74%**	**6.46%**		
194	7	Surface	Chromium	5.32E+01	0.00	0.00		0.00	1.95%
194	7	Surface	Nickel	7.71E+01	0.01	0.13	0.00	0.15	59.60%
194	7	Surface	Silver	1.25E+01	0.01	0.09		0.09	38.45%
194	7	Surface	**Totals**		**0.02**	**0.22**	**0.00**	**0.24**	
194	7	Surface	**Percent**		**9.11%**	**90.60%**	**0.29%**		
194	8	Surface	Chromium	5.36E+01	0.00	0.00		0.00	10.55%
194	8	Surface	Manganese	8.00E+02	0.02	0.01	0.01	0.04	89.45%
194	8	Surface	**Totals**		**0.02**	**0.01**	**0.01**	**0.05**	
194	8	Surface	**Percent**		**43.92%**	**27.37%**	**28.71%**		
194	9	Surface	Arsenic	1.14E+01	0.13	0.04	0.00	0.17	97.38%
194	9	Surface	Chromium	5.17E+01	0.00	0.00		0.00	2.62%
194	9	Surface	**Totals**		**0.13**	**0.04**	**0.00**	**0.18**	
194	9	Surface	**Percent**		**75.06%**	**24.58%**	**0.35%**		
194	10	Surface	Arsenic	1.22E+01	0.14	0.04	0.00	0.18	55.54%
194	10	Surface	Chromium	3.63E+01	0.00	0.00		0.00	0.99%
194	10	Surface	Nickel	7.60E+01	0.01	0.13	0.00	0.14	43.48%
194	10	Surface	**Totals**		**0.15**	**0.17**	**0.00**	**0.33**	
194	10	Surface	**Percent**		**46.81%**	**52.78%**	**0.41%**		
194	11	Surface	Chromium	3.27E+01	0.00	0.00		0.00	0.28%
194	11	Surface	Mercury	8.09E+00	0.09	0.66		0.75	71.93%
194	11	Surface	Nickel	1.01E+02	0.02	0.17	0.00	0.19	18.22%
194	11	Surface	Silver	1.33E+01	0.01	0.09		0.10	9.57%
194	11	Surface	**Totals**		**0.12**	**0.92**	**0.00**	**1.04**	
194	11	Surface	**Percent**		**11.57%**	**88.34%**	**0.09%**		
194	12	Surface	Chromium	6.34E+01	0.00	0.01		0.01	2.33%
194	12	Surface	Nickel	7.86E+01	0.01	0.13	0.00	0.15	60.79%
194	12	Surface	Silver	1.20E+01	0.01	0.08		0.09	36.88%
194	12	Surface	**Totals**		**0.02**	**0.22**	**0.00**	**0.24**	

SWMU = solid waste management unit
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Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	12	Surface	**Percent**		**9.08%**	**90.62%**	**0.29%**		
194	13	Surface	Chromium	4.77E+01	0.00	0.00		0.00	3.62%
194	13	Surface	Nickel	6.03E+01	0.01	0.10	0.00	0.11	96.38%
194	13	Surface	**Totals**		**0.01**	**0.11**	**0.00**	**0.12**	
194	13	Surface	**Percent**		**8.98%**	**90.55%**	**0.46%**		
194	14	Surface	Chromium	5.21E+01	0.00	0.00		0.00	0.62%
194	14	Surface	Mercury	8.14E+00	0.09	0.66		0.75	99.38%
194	14	Surface	**Totals**		**0.09**	**0.66**		**0.76**	
194	14	Surface	**Percent**		**12.45%**	**87.55%**			
194	15	Surface	Chromium	5.33E+01	0.00	0.00		0.00	5.82%
194	15	Surface	Silver	1.03E+01	0.01	0.07		0.08	94.18%
194	15	Surface	**Totals**		**0.01**	**0.07**		**0.08**	
194	15	Surface	**Percent**		**8.88%**	**91.12%**			
194	16	Surface	Antimony	7.40E-01	0.01	0.02		0.03	0.12%
194	16	Surface	Arsenic	1.15E+01	0.13	0.04	0.00	0.17	0.77%
194	16	Surface	Beryllium	8.70E-01	0.00	0.01	0.00	0.02	0.07%
194	16	Surface	Chromium	5.32E+01	0.00	0.00		0.00	0.02%
194	16	Surface	Nickel	7.20E+01	0.01	0.12	0.00	0.14	0.61%
194	16	Surface	Thallium	6.30E-01	0.03	0.01		0.04	0.18%
194	16	Surface	Vanadium	4.11E+01	2.04	19.98	0.00	22.02	98.22%
194	16	Surface	**Totals**		**2.22**	**20.20**	**0.00**	**22.42**	
194	16	Surface	**Percent**		**9.91%**	**90.08%**	**0.01%**		
194	17	Surface	Arsenic	1.16E+01	0.13	0.04	0.00	0.17	94.78%
194	17	Surface	Cadmium	1.10E+00	0.00	0.00	0.00	0.01	2.95%
194	17	Surface	Chromium	4.65E+01	0.00	0.00		0.00	2.27%
194	17	Surface	**Totals**		**0.14**	**0.04**	**0.00**	**0.18**	
194	17	Surface	**Percent**		**75.14%**	**24.47%**	**0.39%**		
194	18	Surface	Arsenic	1.06E+01	0.12	0.04	0.00	0.16	55.22%
194	18	Surface	Beryllium	7.40E-01	0.00	0.01	0.00	0.01	4.83%
194	18	Surface	Chromium	6.85E+01	0.00	0.01		0.01	2.13%
194	18	Surface	Nickel	5.78E+01	0.01	0.10	0.00	0.11	37.82%
194	18	Surface	**Totals**		**0.13**	**0.15**	**0.00**	**0.29**	
194	18	Surface	**Percent**		**46.52%**	**53.09%**	**0.39%**		
194	19	Surface	Arsenic	1.07E+01	0.12	0.04	0.00	0.16	58.44%
194	19	Surface	Chromium	4.84E+01	0.00	0.00		0.00	1.57%
194	19	Surface	Nickel	5.84E+01	0.01	0.10	0.00	0.11	39.98%
194	19	Surface	**Totals**		**0.13**	**0.14**	**0.00**	**0.28**	
194	19	Surface	**Percent**		**48.74%**	**50.86%**	**0.40%**		
194	20	Surface	Arsenic	1.18E+01	0.14	0.04	0.00	0.18	0.81%
194	20	Surface	Barium	3.26E+02	0.01	0.04	0.00	0.05	0.21%
194	20	Surface	Beryllium	1.10E+00	0.00	0.02	0.00	0.02	0.09%
194	20	Surface	Chromium	5.24E+01	0.00	0.00		0.00	0.02%
194	20	Surface	Cobalt	2.11E+01	0.24	0.12	0.00	0.37	1.67%
194	20	Surface	Manganese	2.29E+03	0.06	0.02	0.04	0.12	0.53%
194	20	Surface	Mercury	7.28E+00	0.08	0.59		0.67	3.06%
194	20	Surface	Nickel	6.57E+01	0.01	0.11	0.00	0.12	0.56%
194	20	Surface	Silver	1.22E+01	0.01	0.08		0.09	0.42%
194	20	Surface	Vanadium	3.81E+01	1.89	18.52	0.00	20.41	92.64%
194	20	Surface	**Totals**		**2.44**	**19.55**	**0.04**	**22.04**	
194	20	Surface	**Percent**		**11.08%**	**88.73%**	**0.19%**		
194	21	Surface	Antimony	9.30E-01	0.01	0.03		0.03	4.17%
194	21	Surface	Chromium	5.51E+01	0.00	0.00		0.00	0.60%
194	21	Surface	Mercury	6.62E+00	0.08	0.54		0.61	74.22%
194	21	Surface	Nickel	7.01E+01	0.01	0.12	0.00	0.13	16.00%

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Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	21	Surface	Thallium	6.40E-01	0.03	0.01		0.04	5.01%
194	21	Surface	**Totals**		**0.12**	**0.70**	**0.00**	**0.83**	
194	21	Surface	**Percent**		**15.12%**	**84.80%**	**0.08%**		
194	22	Surface	Chromium	4.90E+01	0.00	0.00		0.00	9.52%
194	22	Surface	Manganese	8.19E+02	0.02	0.01	0.01	0.04	90.48%
194	22	Surface	**Totals**		**0.02**	**0.01**	**0.01**	**0.05**	
194	22	Surface	**Percent**		**44.39%**	**26.57%**	**29.04%**		
194	23	Surface	Arsenic	1.16E+01	0.13	0.04	0.00	0.17	30.68%
194	23	Surface	Chromium	6.60E+01	0.00	0.01		0.01	1.04%
194	23	Surface	Iron	1.83E+04	0.09	0.04		0.14	23.88%
194	23	Surface	Nickel	8.77E+01	0.02	0.15	0.00	0.17	29.18%
194	23	Surface	Silver	1.15E+01	0.01	0.08		0.09	15.21%
194	23	Surface	**Totals**		**0.25**	**0.32**	**0.00**	**0.57**	
194	23	Surface	**Percent**		**43.79%**	**55.96%**	**0.25%**		
194	24	Surface	Chromium	5.02E+01	0.00	0.00		0.00	3.26%
194	24	Surface	Nickel	7.08E+01	0.01	0.12	0.00	0.13	96.74%
194	24	Surface	**Totals**		**0.01**	**0.12**	**0.00**	**0.14**	
194	24	Surface	**Percent**		**9.01%**	**90.53%**	**0.47%**		
194	25	Surface	Barium	3.00E+02	0.01	0.04	0.00	0.04	19.37%
194	25	Surface	Chromium	6.13E+01	0.00	0.01		0.01	2.52%
194	25	Surface	Manganese	9.96E+02	0.02	0.01	0.02	0.05	23.28%
194	25	Surface	Nickel	6.33E+01	0.01	0.11	0.00	0.12	54.83%
194	25	Surface	**Totals**		**0.04**	**0.16**	**0.02**	**0.22**	
194	25	Surface	**Percent**		**18.87%**	**73.16%**	**7.96%**		
194	26	Surface	Beryllium	7.00E-01	0.00	0.01	0.00	0.01	11.04%
194	26	Surface	Chromium	4.18E+01	0.00	0.00		0.00	3.14%
194	26	Surface	Silver	1.03E+01	0.01	0.07		0.08	64.64%
194	26	Surface	Thallium	3.90E-01	0.02	0.01		0.03	21.18%
194	26	Surface	**Totals**		**0.03**	**0.09**	**0.00**	**0.12**	
194	26	Surface	**Percent**		**21.31%**	**78.67%**	**0.02%**		
194	27	Surface	Chromium	5.22E+01	0.00	0.00		0.00	2.29%
194	27	Surface	Nickel	6.55E+01	0.01	0.11	0.00	0.12	60.50%
194	27	Surface	Silver	1.01E+01	0.01	0.07		0.08	37.21%
194	27	Surface	**Totals**		**0.02**	**0.18**	**0.00**	**0.20**	
194	27	Surface	**Percent**		**9.09%**	**90.62%**	**0.29%**		
194	28	Surface	Arsenic	1.20E+01	0.14	0.04	0.00	0.18	0.81%
194	28	Surface	Beryllium	7.10E-01	0.00	0.01	0.00	0.01	0.06%
194	28	Surface	Chromium	6.07E+01	0.00	0.01		0.01	0.02%
194	28	Surface	Manganese	1.14E+03	0.03	0.01	0.02	0.06	0.26%
194	28	Surface	Nickel	6.95E+01	0.01	0.12	0.00	0.13	0.59%
194	28	Surface	Silver	1.08E+01	0.01	0.07		0.08	0.36%
194	28	Surface	Vanadium	4.06E+01	2.02	19.74	0.00	21.75	97.89%
194	28	Surface	**Totals**		**2.20**	**20.00**	**0.02**	**22.22**	
194	28	Surface	**Percent**		**9.92%**	**89.99%**	**0.09%**		
194	29	Surface	Antimony	7.10E-01	0.01	0.02		0.03	11.60%
194	29	Surface	Chromium	5.06E+01	0.00	0.00		0.00	2.00%
194	29	Surface	Nickel	6.51E+01	0.01	0.11	0.00	0.12	54.09%
194	29	Surface	Silver	9.77E+00	0.01	0.07		0.07	32.31%
194	29	Surface	**Totals**		**0.02**	**0.20**	**0.00**	**0.23**	
194	29	Surface	**Percent**		**10.75%**	**88.98%**	**0.26%**		
194	30	Surface	Chromium	5.66E+01	0.00	0.00		0.01	0.49%
194	30	Surface	Mercury	8.80E+00	0.10	0.71		0.81	79.52%
194	30	Surface	Nickel	6.99E+01	0.01	0.12	0.00	0.13	12.85%
194	30	Surface	Silver	9.76E+00	0.01	0.07		0.07	7.14%

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Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	30	Surface	**Totals**		**0.12**	**0.90**	**0.00**	**1.02**	
194	30	Surface	**Percent**		**11.81%**	**88.13%**	**0.06%**		
194	31	Surface	**Totals**					**0.00**	
194	31	Surface	**Percent**						
195	1	Surface	Chromium	6.33E+01	0.00	0.01		0.01	2.72%
195	1	Surface	Nickel	7.02E+01	0.01	0.12	0.00	0.13	63.53%
195	1	Surface	Silver	9.37E+00	0.01	0.06		0.07	33.75%
195	1	Surface	**Totals**		**0.02**	**0.19**	**0.00**	**0.21**	
195	1	Surface	**Percent**		**9.06%**	**90.64%**	**0.31%**		
195	2	Surface	Chromium	4.52E+01	0.00	0.00		0.00	5.39%
195	2	Surface	Silver	9.48E+00	0.01	0.06		0.07	94.61%
195	2	Surface	**Totals**		**0.01**	**0.07**		**0.08**	
195	2	Surface	**Percent**		**8.91%**	**91.09%**			
195	3	Surface	Chromium	5.03E+01	0.00	0.00		0.00	4.38%
195	3	Surface	Nickel	5.22E+01	0.01	0.09	0.00	0.10	95.62%
195	3	Surface	**Totals**		**0.01**	**0.09**	**0.00**	**0.10**	
195	3	Surface	**Percent**		**8.93%**	**90.61%**	**0.46%**		
195	4	Surface	Chromium	5.29E+01	0.00	0.00		0.00	3.88%
195	4	Surface	Nickel	6.23E+01	0.01	0.11	0.00	0.12	96.12%
195	4	Surface	**Totals**		**0.01**	**0.11**	**0.00**	**0.12**	
195	4	Surface	**Percent**		**8.96%**	**90.57%**	**0.46%**		
195	5	Surface	Chromium	5.74E+01	0.00	0.01		0.01	3.26%
195	5	Surface	Nickel	8.11E+01	0.01	0.14	0.00	0.15	96.74%
195	5	Surface	**Totals**		**0.01**	**0.14**	**0.00**	**0.16**	
195	5	Surface	**Percent**		**9.01%**	**90.53%**	**0.47%**		
195	6	Surface	Chromium	4.45E+01	0.00	0.00		0.00	2.37%
195	6	Surface	Nickel	8.71E+01	0.02	0.15	0.00	0.16	97.63%
195	6	Surface	**Totals**		**0.02**	**0.15**	**0.00**	**0.17**	
195	6	Surface	**Percent**		**9.06%**	**90.46%**	**0.47%**		
195	7	Surface	Chromium	4.93E+01	0.00	0.00		0.00	6.80%
195	7	Surface	Silver	8.06E+00	0.01	0.05		0.06	93.20%
195	7	Surface	**Totals**		**0.01**	**0.06**		**0.06**	
195	7	Surface	**Percent**		**8.81%**	**91.19%**			
195	8	Surface	Arsenic	1.16E+01	0.13	0.04	0.00	0.17	0.78%
195	8	Surface	Beryllium	7.40E-01	0.00	0.01	0.00	0.01	0.06%
195	8	Surface	Chromium	6.79E+01	0.00	0.01		0.01	0.03%
195	8	Surface	Cobalt	1.82E+01	0.21	0.10	0.00	0.32	1.42%
195	8	Surface	Nickel	7.01E+01	0.01	0.12	0.00	0.13	0.59%
195	8	Surface	Vanadium	4.04E+01	2.01	19.64	0.00	21.65	97.12%
195	8	Surface	**Totals**		**2.36**	**19.92**	**0.00**	**22.29**	
195	8	Surface	**Percent**		**10.61%**	**89.37%**	**0.02%**		
195	9	Surface	Chromium	6.08E+01	0.00	0.01		0.01	3.52%
195	9	Surface	Nickel	7.93E+01	0.01	0.13	0.00	0.15	96.48%
195	9	Surface	**Totals**		**0.01**	**0.14**	**0.00**	**0.15**	
195	9	Surface	**Percent**		**8.99%**	**90.55%**	**0.47%**		
195	10	Surface	Chromium	4.51E+01	0.00	0.00		0.00	1.67%
195	10	Surface	Nickel	7.40E+01	0.01	0.13	0.00	0.14	57.67%
195	10	Surface	Silver	1.31E+01	0.01	0.09		0.10	40.66%
195	10	Surface	**Totals**		**0.02**	**0.22**	**0.00**	**0.24**	
195	10	Surface	**Percent**		**9.13%**	**90.59%**	**0.28%**		
195	11	Surface	Aluminum	2.81E+04	0.10	0.05	0.00	0.15	0.34%
195	11	Surface	Arsenic	1.35E+01	0.16	0.05	0.00	0.20	0.46%
195	11	Surface	Barium	4.53E+02	0.01	0.06	0.00	0.06	0.14%

SWMU = solid waste management unit
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COPC = chemical of potential concern
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HI = hazard index

Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
195	11	Surface	Chromium	5.05E+01	0.00	0.00		0.00	0.01%
195	11	Surface	Cobalt	2.77E+01	0.32	0.16	0.00	0.48	1.10%
195	11	Surface	Iron	1.97E+04	0.10	0.05		0.15	0.33%
195	11	Surface	Nickel	6.77E+01	0.01	0.12	0.00	0.13	0.29%
195	11	Surface	Thallium	6.60E-01	0.03	0.01		0.04	0.10%
195	11	Surface	Vanadium	7.97E+01	3.96	38.75	0.00	42.70	97.23%
195	11	Surface	**Totals**		**4.68**	**39.23**	**0.01**	**43.92**	
195	11	Surface	**Percent**		**10.65%**	**89.32%**	**0.03%**		
195	12	Surface	Beryllium	7.50E-01	0.00	0.01	0.00	0.01	9.52%
195	12	Surface	Chromium	7.04E+01	0.00	0.01		0.01	4.26%
195	12	Surface	Nickel	6.78E+01	0.01	0.12	0.00	0.13	86.22%
195	12	Surface	**Totals**		**0.01**	**0.13**	**0.00**	**0.15**	
195	12	Surface	**Percent**		**8.94%**	**90.62%**	**0.44%**		
195	13	Surface	Chromium	6.55E+01	0.00	0.01		0.01	4.31%
195	13	Surface	Nickel	6.91E+01	0.01	0.12	0.00	0.13	95.69%
195	13	Surface	**Totals**		**0.01**	**0.12**	**0.00**	**0.14**	
195	13	Surface	**Percent**		**8.94%**	**90.60%**	**0.46%**		
195	14	Surface	Chromium	5.94E+01	0.00	0.01		0.01	3.86%
195	14	Surface	Nickel	7.04E+01	0.01	0.12	0.00	0.13	96.14%
195	14	Surface	**Totals**		**0.01**	**0.12**	**0.00**	**0.14**	
195	14	Surface	**Percent**		**8.97%**	**90.57%**	**0.46%**		
195	15	Surface	Chromium	4.82E+01	0.00	0.00		0.00	100.00%
195	15	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
195	15	Surface	**Percent**		**2.59%**	**97.41%**			
195	16	Surface	Chromium	4.45E+01	0.00	0.00		0.00	2.53%
195	16	Surface	Nickel	8.16E+01	0.01	0.14	0.00	0.15	97.47%
195	16	Surface	**Totals**		**0.01**	**0.14**	**0.00**	**0.16**	
195	16	Surface	**Percent**		**9.05%**	**90.48%**	**0.47%**		
195	17	Surface	Chromium	8.22E+01	0.00	0.01		0.01	2.74%
195	17	Surface	Mercury	4.17E-01	0.00	0.03		0.04	14.37%
195	17	Surface	Nickel	5.93E+01	0.01	0.10	0.00	0.11	41.60%
195	17	Surface	Silver	1.01E+01	0.01	0.07		0.08	28.30%
195	17	Surface	Thallium	5.40E-01	0.02	0.01		0.03	13.00%
195	17	Surface	**Totals**		**0.05**	**0.22**	**0.00**	**0.27**	
195	17	Surface	**Percent**		**17.05%**	**82.75%**	**0.20%**		
196	1	Surface	Antimony	5.90E-01	0.01	0.02		0.02	1.97%
196	1	Surface	Chromium	1.96E+01	0.00	0.00		0.00	0.16%
196	1	Surface	Nickel	5.56E+02	0.10	0.95	0.01	1.05	94.25%
196	1	Surface	Uranium	2.33E+01	0.03	0.01	0.00	0.04	3.62%
196	1	Surface	**Totals**		**0.13**	**0.98**	**0.01**	**1.11**	
196	1	Surface	**Percent**		**11.59%**	**87.95%**	**0.46%**		
196	2	Surface	Barium	2.02E+02	0.00	0.02	0.00	0.03	15.65%
196	2	Surface	Cadmium	2.53E+00	0.01	0.00	0.00	0.01	6.86%
196	2	Surface	Chromium	2.07E+01	0.00	0.00		0.00	1.02%
196	2	Surface	Nickel	7.36E+01	0.01	0.13	0.00	0.14	76.46%
196	2	Surface	**Totals**		**0.03**	**0.16**	**0.00**	**0.18**	
196	2	Surface	**Percent**		**13.86%**	**85.47%**	**0.66%**		
200	1	Surface	Antimony	5.60E-01	0.00	0.02		0.02	2.22%
200	1	Surface	Chromium	5.75E+01	0.00	0.01		0.01	0.55%
200	1	Surface	Mercury	6.71E+00	0.08	0.54		0.62	66.41%
200	1	Surface	Nickel	1.28E+02	0.02	0.22	0.00	0.24	25.78%
200	1	Surface	Uranium	2.73E+01	0.03	0.02	0.00	0.05	5.04%
200	1	Surface	**Totals**		**0.14**	**0.80**	**0.00**	**0.94**	
200	1	Surface	**Percent**		**14.60%**	**85.27%**	**0.13%**		

SWMU = solid waste management unit
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HI = hazard index

Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	1	Surface	Aluminum	1.48E+04	0.05	0.03	0.00	0.08	0.19%
204	1	Surface	Beryllium	1.36E+00	0.00	0.02	0.00	0.03	0.06%
204	1	Surface	Cadmium	2.73E+00	0.01	0.00	0.00	0.01	0.03%
204	1	Surface	Chromium	7.40E+01	0.00	0.01		0.01	0.02%
204	1	Surface	Iron	4.19E+04	0.21	0.10		0.31	0.76%
204	1	Surface	Vanadium	7.55E+01	3.75	36.71	0.00	40.45	98.94%
204	1	Surface	**Totals**		**4.02**	**36.87**	**0.00**	**40.89**	
204	1	Surface	**Percent**		**9.83%**	**90.16%**	**0.01%**		
204	2	Surface	Aluminum	1.37E+04	0.05	0.02	0.00	0.07	97.84%
204	2	Surface	Chromium	1.80E+01	0.00	0.00		0.00	2.16%
204	2	Surface	**Totals**		**0.05**	**0.02**	**0.00**	**0.07**	
204	2	Surface	**Percent**		**63.73%**	**33.28%**	**2.99%**		
204	3	Surface	Chromium	2.06E+01	0.00	0.00		0.00	100.00%
204	3	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
204	3	Surface	**Percent**		**2.59%**	**97.41%**			
204	4	Surface	Antimony	1.10E+00	0.01	0.03		0.04	94.03%
204	4	Surface	Chromium	2.89E+01	0.00	0.00		0.00	5.97%
204	4	Surface	**Totals**		**0.01**	**0.03**		**0.04**	
204	4	Surface	**Percent**		**22.21%**	**77.79%**			
204	18	Surface	Uranium	1.60E+01	0.02	0.01	0.00	0.03	100.00%
204	18	Surface	**Totals**		**0.02**	**0.01**	**0.00**	**0.03**	
204	18	Surface	**Percent**		**67.03%**	**32.82%**	**0.16%**		
204	23	Surface	Beryllium	1.33E+00	0.00	0.02	0.00	0.02	0.11%
204	23	Surface	Chromium	1.75E+02	0.00	0.02		0.02	0.07%
204	23	Surface	Uranium	1.31E+04	15.14	7.41	0.04	22.59	99.82%
204	23	Surface	**Totals**		**15.14**	**7.45**	**0.04**	**22.63**	
204	23	Surface	**Percent**		**66.92%**	**32.92%**	**0.16%**		
211	1	Surface	Chromium	4.48E+01	0.00	0.00		0.00	9.59%
211	1	Surface	Uranium	2.19E+01	0.03	0.01	0.00	0.04	90.41%
211	1	Surface	**Totals**		**0.03**	**0.02**	**0.00**	**0.04**	
211	1	Surface	**Percent**		**60.85%**	**39.01%**	**0.14%**		
212	1	Surface	Arsenic	1.44E+01	0.17	0.05	0.00	0.22	29.11%
212	1	Surface	Beryllium	8.10E-01	0.00	0.01	0.00	0.02	2.04%
212	1	Surface	Chromium	3.58E+01	0.00	0.00		0.00	0.43%
212	1	Surface	Iron	4.14E+04	0.21	0.10		0.31	41.10%
212	1	Surface	Nickel	8.69E+01	0.02	0.15	0.00	0.16	21.98%
212	1	Surface	Uranium	2.30E+01	0.03	0.01	0.00	0.04	5.34%
212	1	Surface	**Totals**		**0.42**	**0.33**	**0.00**	**0.75**	
212	1	Surface	**Percent**		**55.81%**	**43.96%**	**0.22%**		
213	1	Surface	Antimony	8.50E-01	0.01	0.02		0.03	12.10%
213	1	Surface	Chromium	4.78E+01	0.00	0.00		0.00	1.65%
213	1	Surface	Nickel	6.67E+01	0.01	0.11	0.00	0.13	48.31%
213	1	Surface	Silver	1.32E+01	0.01	0.09		0.10	37.95%
213	1	Surface	**Totals**		**0.03**	**0.23**	**0.00**	**0.26**	
213	1	Surface	**Percent**		**10.85%**	**88.92%**	**0.23%**		
213	2	Surface	Chromium	4.48E+01	0.00	0.00		0.00	1.54%
213	2	Surface	Nickel	9.10E+01	0.02	0.15	0.00	0.17	65.96%
213	2	Surface	Silver	1.13E+01	0.01	0.08		0.08	32.50%
213	2	Surface	**Totals**		**0.02**	**0.24**	**0.00**	**0.26**	
213	2	Surface	**Percent**		**9.13%**	**90.55%**	**0.32%**		
214	1	Surface	Antimony	5.70E-01	0.00	0.02		0.02	100.00%
214	1	Surface	**Totals**		**0.00**	**0.02**		**0.02**	
214	1	Surface	**Percent**		**23.45%**	**76.55%**			

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Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
215	1	Surface	Antimony	6.80E-01	0.01	0.02		0.03	5.55%
215	1	Surface	Chromium	5.73E+01	0.00	0.01		0.01	1.13%
215	1	Surface	Iron	3.87E+04	0.19	0.09		0.29	62.98%
215	1	Surface	Nickel	7.32E+01	0.01	0.12	0.00	0.14	30.34%
215	1	Surface	**Totals**		**0.21**	**0.24**	**0.00**	**0.45**	
215	1	Surface	**Percent**		**46.41%**	**53.45%**	**0.15%**		
216	1	Surface	Chromium	2.38E+01	0.00	0.00		0.00	100.00%
216	1	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
216	1	Surface	**Percent**		**2.59%**	**97.41%**			
217	1	Surface	Chromium	8.58E+01	0.00	0.01		0.01	1.18%
217	1	Surface	Cobalt	1.96E+01	0.23	0.11	0.00	0.34	52.44%
217	1	Surface	Manganese	7.70E+02	0.02	0.01	0.01	0.04	6.03%
217	1	Surface	Nickel	8.54E+01	0.01	0.15	0.00	0.16	24.80%
217	1	Surface	Silver	1.35E+01	0.01	0.09		0.10	15.54%
217	1	Surface	**Totals**		**0.27**	**0.36**	**0.02**	**0.65**	
217	1	Surface	**Percent**		**41.63%**	**55.90%**	**2.47%**		
217	2	Surface	Antimony	1.70E+00	0.01	0.05		0.06	3.29%
217	2	Surface	Arsenic	1.12E+01	0.13	0.04	0.00	0.17	8.77%
217	2	Surface	Chromium	1.02E+02	0.00	0.01		0.01	0.48%
217	2	Surface	Cobalt	1.74E+01	0.20	0.10	0.00	0.30	15.81%
217	2	Surface	Iron	3.09E+04	0.15	0.08		0.23	11.95%
217	2	Surface	Manganese	8.44E+02	0.02	0.01	0.01	0.04	2.24%
217	2	Surface	Mercury	8.59E+00	0.10	0.70		0.80	41.56%
217	2	Surface	Nickel	9.74E+01	0.02	0.17	0.00	0.18	9.59%
217	2	Surface	Silver	1.61E+01	0.01	0.11		0.12	6.31%
217	2	Surface	**Totals**		**0.65**	**1.25**	**0.02**	**1.91**	
217	2	Surface	**Percent**		**33.86%**	**65.22%**	**0.92%**		
219	1	Surface	Nickel	6.71E+01	0.01	0.11	0.00	0.13	100.00%
219	1	Surface	**Totals**		**0.01**	**0.11**	**0.00**	**0.13**	
219	1	Surface	**Percent**		**9.22%**	**90.30%**	**0.48%**		
221	1	Surface	Barium	2.21E+02	0.00	0.03	0.00	0.03	8.74%
221	1	Surface	Chromium	7.01E+01	0.00	0.01		0.01	1.77%
221	1	Surface	Iron	1.90E+04	0.09	0.05		0.14	39.50%
221	1	Surface	Nickel	7.93E+01	0.01	0.13	0.00	0.15	42.04%
221	1	Surface	Uranium	1.64E+01	0.02	0.01	0.00	0.03	7.95%
221	1	Surface	**Totals**		**0.13**	**0.22**	**0.00**	**0.36**	
221	1	Surface	**Percent**		**36.85%**	**62.83%**	**0.32%**		
222	1	Surface	Chromium	4.73E+01	0.00	0.00		0.00	1.88%
222	1	Surface	Nickel	9.19E+01	0.02	0.16	0.00	0.17	76.70%
222	1	Surface	Uranium	2.80E+01	0.03	0.02	0.00	0.05	21.42%
222	1	Surface	**Totals**		**0.05**	**0.18**	**0.00**	**0.23**	
222	1	Surface	**Percent**		**21.48%**	**78.12%**	**0.40%**		
224	1	Surface	Chromium	4.49E+01	0.00	0.00		0.00	5.31%
224	1	Surface	Uranium	4.15E+01	0.05	0.02	0.00	0.07	94.69%
224	1	Surface	**Totals**		**0.05**	**0.03**	**0.00**	**0.08**	
224	1	Surface	**Percent**		**63.61%**	**36.25%**	**0.15%**		
225	1	Surface	Chromium	2.55E+01	0.00	0.00		0.00	100.00%
225	1	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
225	1	Surface	**Percent**		**2.59%**	**97.41%**			
226	1	Surface	Antimony	6.60E-01	0.01	0.02		0.02	1.19%
226	1	Surface	Chromium	4.25E+01	0.00	0.00		0.00	0.19%
226	1	Surface	Manganese	6.30E+02	0.02	0.01	0.01	0.03	1.56%
226	1	Surface	Mercury	9.74E+00	0.11	0.79		0.90	43.99%
226	1	Surface	Nickel	2.10E+02	0.04	0.36	0.00	0.39	19.26%

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Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
226	1	Surface	Uranium	4.01E+02	0.46	0.23	0.00	0.69	33.80%
226	1	Surface	**Totals**		**0.64**	**1.40**	**0.01**	**2.05**	
226	1	Surface	**Percent**		**30.98%**	**68.37%**	**0.65%**		
227	1	Surface	Beryllium	5.52E-01	0.00	0.01	0.00	0.01	1.81%
227	1	Surface	Chromium	4.71E+01	0.00	0.00		0.00	0.74%
227	1	Surface	Nickel	2.03E+02	0.04	0.35	0.00	0.38	66.79%
227	1	Surface	Uranium	1.02E+02	0.12	0.06	0.00	0.18	30.66%
227	1	Surface	**Totals**		**0.15**	**0.42**	**0.00**	**0.57**	
227	1	Surface	**Percent**		**26.90%**	**72.73%**	**0.37%**		
227	2	Surface	Beryllium	5.32E-01	0.00	0.01	0.00	0.01	0.83%
227	2	Surface	Chromium	5.63E+01	0.00	0.00		0.01	0.42%
227	2	Surface	Cobalt	8.99E+00	0.10	0.05	0.00	0.16	12.90%
227	2	Surface	Mercury	8.41E+00	0.10	0.68		0.78	64.28%
227	2	Surface	Nickel	1.25E+02	0.02	0.21	0.00	0.24	19.43%
227	2	Surface	Uranium	1.51E+01	0.02	0.01	0.00	0.03	2.15%
227	2	Surface	**Totals**		**0.24**	**0.97**	**0.00**	**1.21**	
227	2	Surface	**Percent**		**19.95%**	**79.85%**	**0.20%**		
228	1	Surface	Antimony	6.30E-01	0.01	0.02		0.02	1.96%
228	1	Surface	Cadmium	3.90E+00	0.01	0.01	0.00	0.02	1.61%
228	1	Surface	Chromium	1.89E+02	0.00	0.02		0.02	1.42%
228	1	Surface	Mercury	9.37E+00	0.11	0.76		0.87	72.94%
228	1	Surface	Nickel	7.92E+01	0.01	0.13	0.00	0.15	12.54%
228	1	Surface	Silver	1.16E+01	0.01	0.08		0.09	7.33%
228	1	Surface	Uranium	1.51E+01	0.02	0.01	0.00	0.03	2.20%
228	1	Surface	**Totals**		**0.17**	**1.02**	**0.00**	**1.19**	
228	1	Surface	**Percent**		**14.07%**	**85.84%**	**0.09%**		
229	1	Surface	Nickel	9.14E+01	0.02	0.16	0.00	0.17	39.00%
229	1	Surface	Uranium	1.56E+02	0.18	0.09	0.00	0.27	61.00%
229	1	Surface	**Totals**		**0.20**	**0.24**	**0.00**	**0.44**	
229	1	Surface	**Percent**		**44.48%**	**55.23%**	**0.28%**		
229	2	Surface	Arsenic	2.12E+01	0.25	0.07	0.00	0.32	48.90%
229	2	Surface	Beryllium	7.90E-01	0.00	0.01	0.00	0.01	2.28%
229	2	Surface	Chromium	2.91E+01	0.00	0.00		0.00	0.40%
229	2	Surface	Nickel	9.93E+01	0.02	0.17	0.00	0.19	28.68%
229	2	Surface	Uranium	7.45E+01	0.09	0.04	0.00	0.13	19.74%
229	2	Surface	**Totals**		**0.35**	**0.30**	**0.00**	**0.65**	
229	2	Surface	**Percent**		**53.76%**	**45.89%**	**0.35%**		
483	1	Surface	Nickel	1.17E+02	0.02	0.20	0.00	0.22	72.35%
483	1	Surface	Silver	1.12E+01	0.01	0.08		0.08	27.65%
483	1	Surface	**Totals**		**0.03**	**0.27**	**0.00**	**0.30**	
483	1	Surface	**Percent**		**9.23%**	**90.42%**	**0.35%**		
486	1	Surface	**Totals**					**0.00**	
486	1	Surface	**Percent**						
487	1	Surface	**Totals**					**0.00**	
487	1	Surface	**Percent**						
488	1	Surface	Uranium	1.48E+01	0.02	0.01	0.00	0.03	100.00%
488	1	Surface	**Totals**		**0.02**	**0.01**	**0.00**	**0.03**	
488	1	Surface	**Percent**		**67.03%**	**32.82%**	**0.16%**		
489	1	Surface	Chromium	4.16E+01	0.00	0.00		0.00	2.45%
489	1	Surface	Nickel	7.88E+01	0.01	0.13	0.00	0.15	97.55%
489	1	Surface	**Totals**		**0.01**	**0.14**	**0.00**	**0.15**	
489	1	Surface	**Percent**		**9.06%**	**90.47%**	**0.47%**		
492	1	Surface	Arsenic	1.47E+01	0.17	0.05	0.00	0.22	0.83%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
492	1	Surface	Beryllium	1.04E+01	0.02	0.18	0.00	0.20	0.73%
492	1	Surface	Cadmium	3.14E+00	0.01	0.00	0.00	0.02	0.06%
492	1	Surface	Chromium	1.04E+03	0.00	0.09		0.09	0.35%
492	1	Surface	Uranium	1.77E+03	2.05	1.00	0.00	3.06	11.44%
492	1	Surface	Vanadium	4.32E+01	2.14	21.00	0.00	23.15	86.59%
492	1	Surface	**Totals**		**4.40**	**22.33**	**0.01**	**26.73**	
492	1	Surface	**Percent**		**16.45%**	**83.53%**	**0.02%**		
493	1	Surface	Aluminum	1.44E+04	0.05	0.02	0.00	0.08	0.33%
493	1	Surface	Barium	4.04E+02	0.01	0.05	0.00	0.06	0.25%
493	1	Surface	Beryllium	9.91E-01	0.00	0.02	0.00	0.02	0.08%
493	1	Surface	Chromium	6.61E+01	0.00	0.01		0.01	0.03%
493	1	Surface	Cobalt	3.79E+01	0.44	0.21	0.01	0.66	2.85%
493	1	Surface	Manganese	3.55E+03	0.09	0.03	0.06	0.18	0.78%
493	1	Surface	Mercury	2.60E-01	0.00	0.02		0.02	0.10%
493	1	Surface	Nickel	2.13E+02	0.04	0.36	0.00	0.40	1.74%
493	1	Surface	Vanadium	4.05E+01	2.01	19.69	0.00	21.70	93.84%
493	1	Surface	**Totals**		**2.64**	**20.42**	**0.07**	**23.12**	
493	1	Surface	**Percent**		**11.40%**	**88.30%**	**0.30%**		
517	1	Surface	Beryllium	7.39E-01	0.00	0.01	0.00	0.01	4.06%
517	1	Surface	Chromium	4.91E+01	0.00	0.00		0.00	1.28%
517	1	Surface	Nickel	1.72E+02	0.03	0.29	0.00	0.32	94.66%
517	1	Surface	**Totals**		**0.03**	**0.31**	**0.00**	**0.34**	
517	1	Surface	**Percent**		**9.14%**	**90.40%**	**0.47%**		
518	1	Surface	Cobalt	6.80E+00	0.08	0.04	0.00	0.12	22.40%
518	1	Surface	Nickel	1.29E+01	0.00	0.02	0.00	0.02	4.59%
518	1	Surface	Pyrene	3.94E+01	0.00	0.01	0.00	0.01	2.00%
518	1	Surface	Uranium	2.17E+02	0.25	0.12	0.00	0.38	71.00%
518	1	Surface	**Totals**		**0.34**	**0.19**	**0.00**	**0.53**	
518	1	Surface	**Percent**		**63.80%**	**35.85%**	**0.35%**		
520	1	Surface	Chromium	3.17E+01	0.00	0.00		0.00	0.16%
520	1	Surface	Iron	1.56E+04	0.08	0.04		0.12	6.64%
520	1	Surface	Mercury	1.07E+01	0.12	0.87		0.99	57.01%
520	1	Surface	Nickel	2.60E+02	0.05	0.44	0.00	0.49	28.28%
520	1	Surface	Silver	1.30E+01	0.01	0.09		0.10	5.61%
520	1	Surface	Uranium	2.29E+01	0.03	0.01	0.00	0.04	2.29%
520	1	Surface	**Totals**		**0.28**	**1.45**	**0.00**	**1.73**	
520	1	Surface	**Percent**		**16.26%**	**83.60%**	**0.14%**		
520	2	Surface	Beryllium	5.79E-01	0.00	0.01	0.00	0.01	0.60%
520	2	Surface	Chromium	6.67E+01	0.00	0.01		0.01	0.33%
520	2	Surface	Manganese	5.89E+02	0.01	0.01	0.01	0.03	1.67%
520	2	Surface	Mercury	1.19E+01	0.14	0.96		1.10	61.10%
520	2	Surface	Nickel	3.11E+02	0.05	0.53	0.00	0.59	32.50%
520	2	Surface	Uranium	3.96E+01	0.05	0.02	0.00	0.07	3.80%
520	2	Surface	**Totals**		**0.25**	**1.53**	**0.01**	**1.80**	
520	2	Surface	**Percent**		**14.06%**	**85.24%**	**0.70%**		
520	3	Surface	Chromium	3.97E+01	0.00	0.00		0.00	0.55%
520	3	Surface	Copper	1.19E+02	0.01	0.01		0.02	2.38%
520	3	Surface	Nickel	2.65E+02	0.05	0.45	0.00	0.50	77.22%
520	3	Surface	Silver	1.27E+01	0.01	0.09		0.10	14.71%
520	3	Surface	Uranium	1.92E+01	0.02	0.01	0.00	0.03	5.14%
520	3	Surface	**Totals**		**0.09**	**0.56**	**0.00**	**0.65**	
520	3	Surface	**Percent**		**13.55%**	**86.07%**	**0.38%**		
520	4	Surface	Chromium	3.82E+01	0.00	0.00		0.00	0.22%
520	4	Surface	Copper	1.11E+02	0.01	0.00		0.01	0.91%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
520	4	Surface	Mercury	9.69E+00	0.11	0.79		0.90	57.30%
520	4	Surface	Nickel	2.82E+02	0.05	0.48	0.00	0.53	33.92%
520	4	Surface	Silver	1.04E+01	0.01	0.07		0.08	5.00%
520	4	Surface	Uranium	2.40E+01	0.03	0.01	0.00	0.04	2.65%
520	4	Surface	**Totals**		**0.21**	**1.36**	**0.00**	**1.57**	
520	4	Surface	**Percent**		**13.15%**	**86.68%**	**0.17%**		
520	5	Surface	Antimony	9.60E-01	0.01	0.03		0.04	11.27%
520	5	Surface	Chromium	3.68E+01	0.00	0.00		0.00	1.04%
520	5	Surface	Nickel	1.47E+02	0.03	0.25	0.00	0.28	87.69%
520	5	Surface	**Totals**		**0.03**	**0.28**	**0.00**	**0.32**	
520	5	Surface	**Percent**		**10.76%**	**88.82%**	**0.42%**		
531	1	Surface	Antimony	1.00E+00	0.01	0.03		0.04	2.36%
531	1	Surface	Arsenic	4.68E+01	0.54	0.16	0.00	0.70	44.83%
531	1	Surface	Cadmium	3.10E+00	0.01	0.00	0.00	0.02	0.97%
531	1	Surface	Chromium	5.05E+01	0.00	0.00		0.00	0.29%
531	1	Surface	Iron	5.68E+04	0.28	0.14		0.42	26.76%
531	1	Surface	Nickel	1.62E+02	0.03	0.28	0.00	0.31	19.46%
531	1	Surface	Uranium	2.41E+01	0.03	0.01	0.00	0.04	2.65%
531	1	Surface	Zinc	2.45E+03	0.03	0.01		0.04	2.69%
531	1	Surface	**Totals**		**0.93**	**0.64**	**0.00**	**1.57**	
531	1	Surface	**Percent**		**59.11%**	**40.61%**	**0.28%**		
541	1	Surface	Aluminum	1.43E+04	0.05	0.02	0.00	0.08	0.28%
541	1	Surface	Barium	1.28E+02	0.00	0.02	0.00	0.02	0.06%
541	1	Surface	Beryllium	6.98E-01	0.00	0.01	0.00	0.01	0.05%
541	1	Surface	Cadmium	1.68E+00	0.01	0.00	0.00	0.01	0.03%
541	1	Surface	Chromium	8.24E+02	0.00	0.07		0.07	0.27%
541	1	Surface	Iron	1.60E+04	0.08	0.04		0.12	0.43%
541	1	Surface	Mercury	9.81E-02	0.00	0.01		0.01	0.03%
541	1	Surface	Naphthalene	6.55E-01	0.00	0.00	0.01	0.01	0.02%
541	1	Surface	Nickel	1.52E+01	0.00	0.03	0.00	0.03	0.10%
541	1	Surface	Uranium	6.38E+03	7.39	3.62	0.02	11.03	39.84%
541	1	Surface	Vanadium	3.04E+01	1.51	14.80	0.00	16.31	58.89%
541	1	Surface	**Totals**		**9.05**	**18.62**	**0.03**	**27.69**	
541	1	Surface	**Percent**		**32.68%**	**67.23%**	**0.10%**		
561	1	Surface	Antimony	9.36E-01	0.01	0.03		0.03	0.16%
561	1	Surface	Arsenic	1.66E+01	0.19	0.06	0.00	0.25	1.16%
561	1	Surface	Barium	1.40E+02	0.00	0.02	0.00	0.02	0.09%
561	1	Surface	Beryllium	6.85E-01	0.00	0.01	0.00	0.01	0.06%
561	1	Surface	Chromium	8.58E+01	0.00	0.01		0.01	0.04%
561	1	Surface	Cobalt	1.07E+01	0.12	0.06	0.00	0.19	0.87%
561	1	Surface	Iron	2.05E+04	0.10	0.05		0.15	0.71%
561	1	Surface	Manganese	1.61E+03	0.04	0.02	0.03	0.08	0.38%
561	1	Surface	Thallium	3.33E-01	0.01	0.01		0.02	0.10%
561	1	Surface	Uranium	2.65E+02	0.31	0.15	0.00	0.46	2.14%
561	1	Surface	Vanadium	3.76E+01	1.87	18.30	0.00	20.17	94.29%
561	1	Surface	**Totals**		**2.66**	**18.70**	**0.03**	**21.39**	
561	1	Surface	**Percent**		**12.43%**	**87.43%**	**0.14%**		
561	2	Surface	Antimony	5.33E+00	0.05	0.15		0.20	0.91%
561	2	Surface	Arsenic	1.30E+01	0.15	0.04	0.00	0.20	0.91%
561	2	Surface	Beryllium	6.34E-01	0.00	0.01	0.00	0.01	0.06%
561	2	Surface	Cadmium	4.13E-01	0.00	0.00	0.00	0.00	0.01%
561	2	Surface	Chromium	2.88E+02	0.00	0.03		0.03	0.12%
561	2	Surface	Cobalt	1.14E+01	0.13	0.06	0.00	0.20	0.92%
561	2	Surface	Manganese	1.12E+03	0.03	0.01	0.02	0.06	0.26%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.23. HIs for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
561	2	Surface	Thallium	4.09E-01	0.02	0.01		0.03	0.12%
561	2	Surface	Uranium	1.38E+03	1.60	0.78	0.00	2.39	11.06%
561	2	Surface	Vanadium	3.46E+01	1.72	16.80	0.00	18.51	85.64%
561	2	Surface	**Totals**		**3.70**	**17.90**	**0.02**	**21.62**	
561	2	Surface	**Percent**		**17.09%**	**82.79%**	**0.11%**		
562	1	Surface	Uranium	8.73E+01	0.10	0.05	0.00	0.15	100.00%
562	1	Surface	**Totals**		**0.10**	**0.05**	**0.00**	**0.15**	
562	1	Surface	**Percent**		**67.03%**	**32.82%**	**0.16%**		
562	2	Surface	**Totals**					**0.00**	
562	2	Surface	**Percent**						
562	3	Surface	Chromium	3.82E+01	0.00	0.00		0.00	3.25%
562	3	Surface	Uranium	5.89E+01	0.07	0.03	0.00	0.10	96.75%
562	3	Surface	**Totals**		**0.07**	**0.04**	**0.00**	**0.11**	
562	3	Surface	**Percent**		**64.93%**	**34.91%**	**0.15%**		
562	4	Surface	Chromium	4.67E+01	0.00	0.00		0.00	10.33%
562	4	Surface	Uranium	2.10E+01	0.02	0.01	0.00	0.04	89.67%
562	4	Surface	**Totals**		**0.02**	**0.02**	**0.00**	**0.04**	
562	4	Surface	**Percent**		**60.37%**	**39.49%**	**0.14%**		
562	5	Surface	Chromium	1.53E+02	0.00	0.01		0.01	3.67%
562	5	Surface	Uranium	2.08E+02	0.24	0.12	0.00	0.36	96.33%
562	5	Surface	**Totals**		**0.24**	**0.13**	**0.00**	**0.37**	
562	5	Surface	**Percent**		**64.66%**	**35.19%**	**0.15%**		
563	1	Surface	Cadmium	8.96E-01	0.00	0.00	0.00	0.00	7.87%
563	1	Surface	Chromium	2.85E+02	0.00	0.02		0.03	45.57%
563	1	Surface	Uranium	1.51E+01	0.02	0.01	0.00	0.03	46.56%
563	1	Surface	**Totals**		**0.02**	**0.03**	**0.00**	**0.06**	
563	1	Surface	**Percent**		**37.95%**	**61.85%**	**0.20%**		
563	2	Surface	**Totals**					**0.00**	
563	2	Surface	**Percent**						
564	1	Surface	Arsenic	4.30E+01	0.50	0.15	0.00	0.65	1.45%
564	1	Surface	Beryllium	2.12E+00	0.00	0.04	0.00	0.04	0.09%
564	1	Surface	Cadmium	1.96E+00	0.01	0.00	0.00	0.01	0.02%
564	1	Surface	Chromium	7.49E+01	0.00	0.01		0.01	0.02%
564	1	Surface	Iron	3.66E+04	0.18	0.09		0.27	0.61%
564	1	Surface	Mercury	2.30E-01	0.00	0.02		0.02	0.05%
564	1	Surface	Nickel	2.24E+01	0.00	0.04	0.00	0.04	0.09%
564	1	Surface	Thallium	2.36E+00	0.10	0.05		0.15	0.34%
564	1	Surface	Uranium	5.83E+01	0.07	0.03	0.00	0.10	0.23%
564	1	Surface	Vanadium	8.06E+01	4.00	39.18	0.00	43.19	97.10%
564	1	Surface	**Totals**		**4.87**	**39.61**	**0.00**	**44.48**	
564	1	Surface	**Percent**		**10.95%**	**89.04%**	**0.01%**		
567	3	Surface	Chromium	3.79E+01	0.00	0.00		0.00	100.00%
567	3	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
567	3	Surface	**Percent**		**2.59%**	**97.41%**			
567	4	Surface	Aluminum	1.25E+04	0.04	0.02	0.00	0.07	97.86%
567	4	Surface	Chromium	1.63E+01	0.00	0.00		0.00	2.14%
567	4	Surface	**Totals**		**0.04**	**0.02**	**0.00**	**0.07**	
567	4	Surface	**Percent**		**63.74%**	**33.26%**	**2.99%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
1	1	Subsurface	Aluminum	1.05E+04	0.04	0.02	0.00	0.06	0.31%
1	1	Subsurface	Antimony	2.06E+00	0.02	0.06		0.08	0.42%
1	1	Subsurface	Arsenic	6.74E+00	0.08	0.02	0.00	0.10	0.55%
1	1	Subsurface	Barium	1.46E+02	0.00	0.02	0.00	0.02	0.11%
1	1	Subsurface	Beryllium	3.37E+00	0.01	0.06	0.00	0.06	0.35%
1	1	Subsurface	Cadmium	1.83E+00	0.01	0.00	0.00	0.01	0.05%
1	1	Subsurface	Chromium	2.32E+01	0.00	0.00		0.00	0.01%
1	1	Subsurface	Cobalt	1.05E+01	0.12	0.06	0.00	0.18	1.00%
1	1	Subsurface	Manganese	1.00E+03	0.02	0.01	0.02	0.05	0.28%
1	1	Subsurface	Nickel	1.62E+01	0.00	0.03	0.00	0.03	0.17%
1	1	Subsurface	Thallium	8.92E-01	0.04	0.02		0.06	0.32%
1	1	Subsurface	Trichloroethene	6.90E-01	0.01	0.02	0.01	0.04	0.19%
1	1	Subsurface	Vanadium	3.29E+01	1.63	15.98	0.00	17.62	96.25%
1	1	Subsurface	**Totals**		**1.98**	**16.30**	**0.03**	**18.30**	
1	1	Subsurface	**Percent**		**10.80%**	**89.05%**	**0.16%**		
1	2	Subsurface	Aluminum	9.14E+03	0.03	0.02	0.00	0.05	0.08%
1	2	Subsurface	Arsenic	7.82E+00	0.09	0.03	0.00	0.12	0.19%
1	2	Subsurface	Barium	1.57E+02	0.00	0.02	0.00	0.02	0.03%
1	2	Subsurface	Beryllium	5.07E+00	0.01	0.09	0.00	0.10	0.15%
1	2	Subsurface	Cadmium	3.74E+00	0.01	0.01	0.00	0.02	0.03%
1	2	Subsurface	Chromium	1.26E+02	0.00	0.01		0.01	0.02%
1	2	Subsurface	cis-1,2-Dichloroethene	2.40E+03	4.17	10.21	26.82	41.20	64.82%
1	2	Subsurface	Copper	1.13E+02	0.01	0.00		0.01	0.02%
1	2	Subsurface	Manganese	7.28E+02	0.02	0.01	0.01	0.04	0.06%
1	2	Subsurface	Mercury	7.06E+00	0.08	0.57		0.65	1.03%
1	2	Subsurface	Nickel	4.96E+01	0.01	0.08	0.00	0.09	0.15%
1	2	Subsurface	Silver	7.39E+01	0.05	0.50		0.55	0.87%
1	2	Subsurface	Thallium	3.70E-01	0.02	0.01		0.02	0.04%
1	2	Subsurface	trans-1,2-Dichloroethene	8.93E+00	0.00	0.00	0.06	0.06	0.10%
1	2	Subsurface	Trichloroethene	6.48E+01	0.75	1.84	0.73	3.32	5.22%
1	2	Subsurface	Vanadium	3.22E+01	1.60	15.63	0.00	17.23	27.11%
1	2	Subsurface	Vinyl chloride	4.47E+00	0.01	0.01	0.04	0.06	0.09%
1	2	Subsurface	**Totals**		**6.86**	**29.04**	**27.66**	**63.55**	
1	2	Subsurface	**Percent**		**10.79%**	**45.70%**	**43.51%**		
1	3	Subsurface	Antimony	3.80E-01	0.00	0.01		0.01	6.71%
1	3	Subsurface	Arsenic	6.24E+00	0.07	0.02	0.00	0.09	44.71%
1	3	Subsurface	Barium	1.34E+02	0.00	0.02	0.00	0.02	8.94%
1	3	Subsurface	Cadmium	3.32E+00	0.01	0.00	0.00	0.02	7.78%
1	3	Subsurface	Manganese	5.13E+02	0.01	0.00	0.01	0.03	12.43%
1	3	Subsurface	Nickel	2.16E+01	0.00	0.04	0.00	0.04	19.43%
1	3	Subsurface	**Totals**		**0.11**	**0.09**	**0.01**	**0.21**	
1	3	Subsurface	**Percent**		**50.47%**	**45.05%**	**4.48%**		
1	4	Subsurface	Beryllium	7.52E-01	0.00	0.01	0.00	0.01	0.09%
1	4	Subsurface	Cadmium	2.09E+00	0.01	0.00	0.00	0.01	0.07%
1	4	Subsurface	Chromium	7.09E+01	0.00	0.01		0.01	0.04%
1	4	Subsurface	Nickel	2.81E+01	0.00	0.05	0.00	0.05	0.34%
1	4	Subsurface	Trichloroethene	1.90E-01	0.00	0.01	0.00	0.01	0.06%
1	4	Subsurface	Vanadium	2.87E+01	1.43	13.96	0.00	15.38	99.40%
1	4	Subsurface	**Totals**		**1.44**	**14.03**	**0.00**	**15.48**	
1	4	Subsurface	**Percent**		**9.31%**	**90.67%**	**0.02%**		
1	5	Subsurface	Aluminum	1.20E+04	0.04	0.02	0.00	0.06	6.74%
1	5	Subsurface	Arsenic	1.67E+01	0.19	0.06	0.00	0.25	26.40%
1	5	Subsurface	Barium	2.15E+02	0.00	0.03	0.00	0.03	3.18%
1	5	Subsurface	Beryllium	8.30E+00	0.01	0.14	0.00	0.16	16.40%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
1	5	Subsurface	Cadmium	2.97E+00	0.01	0.00	0.00	0.01	1.54%
1	5	Subsurface	Cobalt	1.43E+01	0.17	0.08	0.00	0.25	26.14%
1	5	Subsurface	Manganese	2.16E+03	0.05	0.02	0.04	0.11	11.55%
1	5	Subsurface	Nickel	4.07E+01	0.01	0.07	0.00	0.08	8.06%
1	5	Subsurface	**Totals**		**0.49**	**0.42**	**0.04**	**0.95**	
1	5	Subsurface	**Percent**		**51.50%**	**44.15%**	**4.35%**		
12	1	Subsurface	Aluminum	9.31E+03	0.03	0.02	0.00	0.05	0.24%
12	1	Subsurface	Antimony	9.00E-01	0.01	0.03		0.03	0.16%
12	1	Subsurface	Arsenic	1.43E+01	0.17	0.05	0.00	0.21	1.05%
12	1	Subsurface	Barium	1.72E+02	0.00	0.02	0.00	0.02	0.12%
12	1	Subsurface	Beryllium	4.75E+00	0.01	0.08	0.00	0.09	0.43%
12	1	Subsurface	Cadmium	1.08E+00	0.00	0.00	0.00	0.01	0.03%
12	1	Subsurface	Chromium	5.01E+01	0.00	0.00		0.00	0.02%
12	1	Subsurface	Cobalt	2.47E+01	0.29	0.14	0.00	0.43	2.09%
12	1	Subsurface	Iron	3.87E+04	0.19	0.09		0.29	1.39%
12	1	Subsurface	Manganese	1.27E+03	0.03	0.01	0.02	0.06	0.31%
12	1	Subsurface	Mercury	8.80E+00	0.10	0.71		0.81	3.97%
12	1	Subsurface	Molybdenum	2.33E+01	0.02	0.01		0.02	0.12%
12	1	Subsurface	Nickel	8.72E+01	0.02	0.15	0.00	0.16	0.80%
12	1	Subsurface	Silver	1.13E+01	0.01	0.08		0.09	0.41%
12	1	Subsurface	Thallium	1.03E+00	0.04	0.02		0.07	0.32%
12	1	Subsurface	Uranium	9.34E+02	1.08	0.53	0.00	1.61	7.85%
12	1	Subsurface	Vanadium	3.09E+01	1.54	15.04	0.00	16.58	80.68%
12	1	Subsurface	**Totals**		**3.53**	**16.98**	**0.03**	**20.55**	
12	1	Subsurface	**Percent**		**17.20%**	**82.65%**	**0.15%**		
13	1	Subsurface	Beryllium	6.24E-01	0.00	0.01	0.00	0.01	0.08%
13	1	Subsurface	Cadmium	2.25E+00	0.01	0.00	0.00	0.01	0.08%
13	1	Subsurface	Vanadium	2.61E+01	1.29	12.66	0.00	13.96	99.84%
13	1	Subsurface	**Totals**		**1.30**	**12.68**	**0.00**	**13.98**	
13	1	Subsurface	**Percent**		**9.31%**	**90.68%**	**0.00%**		
13	2	Subsurface	Cadmium	1.85E+00	0.01	0.00	0.00	0.01	100.00%
13	2	Subsurface	**Totals**		**0.01**	**0.00**	**0.00**	**0.01**	
13	2	Subsurface	**Percent**		**70.66%**	**27.68%**	**1.66%**		
13	3	Subsurface	Beryllium	6.15E-01	0.00	0.01	0.00	0.01	0.07%
13	3	Subsurface	Cadmium	2.11E+00	0.01	0.00	0.00	0.01	0.06%
13	3	Subsurface	Vanadium	3.31E+01	1.64	16.09	0.00	17.73	99.88%
13	3	Subsurface	**Totals**		**1.65**	**16.10**	**0.00**	**17.75**	
13	3	Subsurface	**Percent**		**9.30%**	**90.70%**	**0.00%**		
13	4	Subsurface	**Totals**					**0.00**	
13	4	Subsurface	**Percent**						
13	5	Subsurface	Aluminum	9.83E+03	0.03	0.02	0.00	0.05	10.47%
13	5	Subsurface	Antimony	8.20E-01	0.01	0.02		0.03	6.06%
13	5	Subsurface	Cadmium	2.36E+00	0.01	0.00	0.00	0.01	2.31%
13	5	Subsurface	Chromium	1.20E+02	0.00	0.01		0.01	2.15%
13	5	Subsurface	Nickel	1.01E+02	0.02	0.17	0.00	0.19	37.98%
13	5	Subsurface	Uranium	1.19E+02	0.14	0.07	0.00	0.21	41.04%
13	5	Subsurface	**Totals**		**0.21**	**0.29**	**0.00**	**0.50**	
13	5	Subsurface	**Percent**		**40.93%**	**58.46%**	**0.61%**		
13	6	Subsurface	Beryllium	5.72E-01	0.00	0.01	0.00	0.01	11.70%
13	6	Subsurface	Cadmium	3.94E+00	0.01	0.01	0.00	0.02	21.11%
13	6	Subsurface	Manganese	8.34E+02	0.02	0.01	0.01	0.04	46.17%
13	6	Subsurface	Silver	2.58E+00	0.00	0.02		0.02	21.03%
13	6	Subsurface	**Totals**		**0.04**	**0.04**	**0.01**	**0.09**	
13	6	Subsurface	**Percent**		**40.47%**	**44.34%**	**15.20%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	7	Subsurface	**Totals**					**0.00**	
13	7	Subsurface	**Percent**						
13	9	Subsurface	Uranium	1.82E+01	0.02	0.01	0.00	0.03	100.00%
13	9	Subsurface	**Totals**		**0.02**	**0.01**	**0.00**	**0.03**	
13	9	Subsurface	**Percent**		**67.03%**	**32.82%**	**0.16%**		
13	10	Subsurface	**Totals**					**0.00**	
13	10	Subsurface	**Percent**						
13	11	Subsurface	**Totals**					**0.00**	
13	11	Subsurface	**Percent**						
13	12	Subsurface	Barium	1.29E+02	0.00	0.02	0.00	0.02	42.60%
13	12	Subsurface	Beryllium	6.25E-01	0.00	0.01	0.00	0.01	27.51%
13	12	Subsurface	Cadmium	2.59E+00	0.01	0.00	0.00	0.01	29.88%
13	12	Subsurface	**Totals**		**0.01**	**0.03**	**0.00**	**0.04**	
13	12	Subsurface	**Percent**		**28.93%**	**70.02%**	**1.05%**		
13	13	Subsurface	**Totals**					**0.00**	
13	13	Subsurface	**Percent**						
13	14	Subsurface	**Totals**					**0.00**	
13	14	Subsurface	**Percent**						
14	1	Subsurface	Antimony	6.30E-01	0.01	0.02		0.02	0.13%
14	1	Subsurface	Arsenic	1.13E+01	0.13	0.04	0.00	0.17	0.91%
14	1	Subsurface	Beryllium	6.84E-01	0.00	0.01	0.00	0.01	0.07%
14	1	Subsurface	Chromium	6.56E+01	0.00	0.01		0.01	0.03%
14	1	Subsurface	Iron	4.24E+04	0.21	0.10		0.31	1.69%
14	1	Subsurface	Manganese	8.41E+02	0.02	0.01	0.01	0.04	0.23%
14	1	Subsurface	Nickel	7.40E+02	0.13	1.26	0.01	1.39	7.50%
14	1	Subsurface	Silver	1.67E+01	0.01	0.11		0.13	0.67%
14	1	Subsurface	Uranium	2.56E+02	0.30	0.15	0.00	0.44	2.39%
14	1	Subsurface	Vanadium	2.99E+01	1.49	14.56	0.00	16.04	86.38%
14	1	Subsurface	**Totals**		**2.29**	**16.26**	**0.02**	**18.57**	
14	1	Subsurface	**Percent**		**12.34%**	**87.54%**	**0.12%**		
14	2	Subsurface	Aluminum	1.00E+04	0.03	0.02	0.00	0.05	1.34%
14	2	Subsurface	Antimony	3.51E+00	0.03	0.10		0.13	3.25%
14	2	Subsurface	Arsenic	1.47E+01	0.17	0.05	0.00	0.22	5.54%
14	2	Subsurface	Beryllium	6.75E-01	0.00	0.01	0.00	0.01	0.32%
14	2	Subsurface	Cadmium	1.75E+00	0.01	0.00	0.00	0.01	0.22%
14	2	Subsurface	Chromium	7.24E+01	0.00	0.01		0.01	0.16%
14	2	Subsurface	Copper	1.92E+02	0.02	0.01		0.02	0.62%
14	2	Subsurface	Iron	4.38E+04	0.22	0.11		0.32	8.10%
14	2	Subsurface	Manganese	1.51E+03	0.04	0.01	0.02	0.08	1.92%
14	2	Subsurface	Mercury	8.88E+00	0.10	0.72		0.82	20.59%
14	2	Subsurface	Nickel	8.41E+02	0.15	1.43	0.01	1.58	39.66%
14	2	Subsurface	Selenium	2.74E+01	0.02	0.01	0.00	0.03	0.71%
14	2	Subsurface	Silver	9.58E+00	0.01	0.07		0.07	1.80%
14	2	Subsurface	Uranium	3.64E+02	0.42	0.21	0.00	0.63	15.76%
14	2	Subsurface	**Totals**		**1.21**	**2.75**	**0.04**	**3.99**	
14	2	Subsurface	**Percent**		**30.33%**	**68.78%**	**0.90%**		
14	3	Subsurface	Arsenic	1.91E+01	0.22	0.06	0.00	0.29	0.78%
14	3	Subsurface	Beryllium	2.07E+00	0.00	0.04	0.00	0.04	0.11%
14	3	Subsurface	Chromium	7.01E+01	0.00	0.01		0.01	0.02%
14	3	Subsurface	Cobalt	1.63E+01	0.19	0.09	0.00	0.28	0.77%
14	3	Subsurface	Copper	1.30E+02	0.01	0.01		0.02	0.05%
14	3	Subsurface	Iron	4.64E+04	0.23	0.11		0.34	0.94%
14	3	Subsurface	Manganese	1.24E+03	0.03	0.01	0.02	0.06	0.17%
14	3	Subsurface	Mercury	7.48E+00	0.09	0.61		0.69	1.89%

SWMU = solid waste management unit
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HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
14	3	Subsurface	Molybdenum	2.23E+01	0.02	0.01		0.02	0.06%
14	3	Subsurface	Nickel	6.64E+02	0.12	1.13	0.01	1.25	3.41%
14	3	Subsurface	Silver	1.34E+01	0.01	0.09		0.10	0.27%
14	3	Subsurface	Uranium	2.19E+02	0.25	0.12	0.00	0.38	1.03%
14	3	Subsurface	Vanadium	6.19E+01	3.08	30.11	0.00	33.19	90.50%
14	3	Subsurface	**Totals**		**4.24**	**32.40**	**0.03**	**36.67**	
14	3	Subsurface	**Percent**		**11.56%**	**88.35%**	**0.08%**		
14	4	Subsurface	Aluminum	1.18E+04	0.04	0.02	0.00	0.06	1.63%
14	4	Subsurface	Antimony	3.29E+00	0.03	0.09		0.12	3.15%
14	4	Subsurface	Arsenic	1.24E+01	0.14	0.04	0.00	0.19	4.84%
14	4	Subsurface	Chromium	5.66E+01	0.00	0.00		0.01	0.13%
14	4	Subsurface	Cobalt	1.46E+01	0.17	0.08	0.00	0.25	6.58%
14	4	Subsurface	Copper	3.59E+02	0.03	0.02		0.05	1.20%
14	4	Subsurface	Iron	3.89E+04	0.19	0.09		0.29	7.44%
14	4	Subsurface	Manganese	9.96E+02	0.02	0.01	0.02	0.05	1.31%
14	4	Subsurface	Mercury	8.00E+00	0.09	0.65		0.74	19.18%
14	4	Subsurface	Nickel	7.31E+02	0.13	1.24	0.01	1.38	35.63%
14	4	Subsurface	Silver	1.17E+01	0.01	0.08		0.09	2.27%
14	4	Subsurface	Uranium	3.72E+02	0.43	0.21	0.00	0.64	16.63%
14	4	Subsurface	**Totals**		**1.29**	**2.54**	**0.03**	**3.86**	
14	4	Subsurface	**Percent**		**33.40%**	**65.86%**	**0.74%**		
14	5	Subsurface	Antimony	1.60E+00	0.01	0.05		0.06	0.26%
14	5	Subsurface	Arsenic	1.27E+01	0.15	0.04	0.00	0.19	0.83%
14	5	Subsurface	Beryllium	7.93E-01	0.00	0.01	0.00	0.01	0.06%
14	5	Subsurface	Cadmium	2.59E+00	0.01	0.00	0.00	0.01	0.06%
14	5	Subsurface	Chromium	4.70E+01	0.00	0.00		0.00	0.02%
14	5	Subsurface	Cobalt	1.11E+01	0.13	0.06	0.00	0.19	0.84%
14	5	Subsurface	Copper	1.34E+02	0.01	0.01		0.02	0.08%
14	5	Subsurface	Iron	3.93E+04	0.20	0.10		0.29	1.26%
14	5	Subsurface	Manganese	1.06E+03	0.03	0.01	0.02	0.05	0.23%
14	5	Subsurface	Mercury	1.09E+01	0.13	0.89		1.01	4.40%
14	5	Subsurface	Nickel	4.63E+02	0.08	0.79	0.00	0.87	3.79%
14	5	Subsurface	Silver	1.29E+01	0.01	0.09		0.10	0.42%
14	5	Subsurface	Thallium	3.52E-01	0.02	0.01		0.02	0.10%
14	5	Subsurface	Uranium	2.62E+02	0.30	0.15	0.00	0.45	1.97%
14	5	Subsurface	Vanadium	3.68E+01	1.83	17.89	0.00	19.72	85.68%
14	5	Subsurface	**Totals**		**2.90**	**20.09**	**0.02**	**23.01**	
14	5	Subsurface	**Percent**		**12.58%**	**87.31%**	**0.11%**		
14	6	Subsurface	Antimony	2.13E+00	0.02	0.06		0.08	2.40%
14	6	Subsurface	Arsenic	1.05E+01	0.12	0.04	0.00	0.16	4.81%
14	6	Subsurface	Cadmium	6.57E-01	0.00	0.00	0.00	0.00	0.10%
14	6	Subsurface	Chromium	4.39E+02	0.00	0.04		0.04	1.20%
14	6	Subsurface	Copper	1.22E+02	0.01	0.01		0.02	0.48%
14	6	Subsurface	Manganese	6.55E+02	0.02	0.01	0.01	0.03	1.01%
14	6	Subsurface	Mercury	3.47E-01	0.00	0.03		0.03	0.98%
14	6	Subsurface	Nickel	9.63E+02	0.17	1.64	0.01	1.82	55.31%
14	6	Subsurface	Silver	1.47E+01	0.01	0.10		0.11	3.35%
14	6	Subsurface	Uranium	5.77E+02	0.67	0.33	0.00	1.00	30.36%
14	6	Subsurface	**Totals**		**1.02**	**2.24**	**0.02**	**3.28**	
14	6	Subsurface	**Percent**		**31.07%**	**68.27%**	**0.66%**		
14	7	Subsurface	Antimony	6.02E-01	0.01	0.02		0.02	0.56%
14	7	Subsurface	Arsenic	1.12E+01	0.13	0.04	0.00	0.17	4.26%
14	7	Subsurface	Cadmium	2.11E+00	0.01	0.00	0.00	0.01	0.26%
14	7	Subsurface	Chromium	6.46E+01	0.00	0.01		0.01	0.15%

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Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
14	7	Subsurface	Manganese	5.99E+02	0.01	0.01	0.01	0.03	0.77%
14	7	Subsurface	Mercury	7.82E+00	0.09	0.63		0.72	18.27%
14	7	Subsurface	Nickel	1.22E+03	0.21	2.08	0.01	2.30	58.14%
14	7	Subsurface	Silver	1.63E+01	0.01	0.11		0.12	3.08%
14	7	Subsurface	Uranium	3.33E+02	0.39	0.19	0.00	0.58	14.51%
14	7	Subsurface	**Totals**		**0.86**	**3.08**	**0.02**	**3.96**	
14	7	Subsurface	**Percent**		**21.64%**	**77.79%**	**0.57%**		
14	8	Subsurface	Antimony	5.01E-01	0.00	0.01		0.02	0.60%
14	8	Subsurface	Arsenic	1.22E+01	0.14	0.04	0.00	0.18	5.94%
14	8	Subsurface	Chromium	5.14E+01	0.00	0.00		0.00	0.15%
14	8	Subsurface	Copper	1.17E+02	0.01	0.00		0.02	0.49%
14	8	Subsurface	Mercury	8.70E+00	0.10	0.70		0.81	26.13%
14	8	Subsurface	Nickel	6.73E+02	0.12	1.14	0.01	1.27	41.10%
14	8	Subsurface	Silver	1.18E+01	0.01	0.08		0.09	2.87%
14	8	Subsurface	Uranium	4.05E+02	0.47	0.23	0.00	0.70	22.72%
14	8	Subsurface	**Totals**		**0.85**	**2.22**	**0.01**	**3.08**	
14	8	Subsurface	**Percent**		**27.60%**	**72.14%**	**0.26%**		
14	9	Subsurface	Antimony	2.00E+00	0.02	0.06		0.07	1.58%
14	9	Subsurface	Arsenic	1.39E+01	0.16	0.05	0.00	0.21	4.44%
14	9	Subsurface	Cadmium	9.40E-01	0.00	0.00	0.00	0.00	0.10%
14	9	Subsurface	Chromium	4.64E+01	0.00	0.00		0.00	0.09%
14	9	Subsurface	Mercury	1.13E+00	0.01	0.09		0.10	2.22%
14	9	Subsurface	Nickel	9.43E+02	0.16	1.61	0.01	1.78	37.79%
14	9	Subsurface	Uranium	1.46E+03	1.70	0.83	0.00	2.53	53.79%
14	9	Subsurface	**Totals**		**2.05**	**2.64**	**0.01**	**4.70**	
14	9	Subsurface	**Percent**		**43.67%**	**56.04%**	**0.28%**		
14	10	Subsurface	Antimony	8.55E-01	0.01	0.02		0.03	0.71%
14	10	Subsurface	Arsenic	1.15E+01	0.13	0.04	0.00	0.17	3.90%
14	10	Subsurface	Barium	1.39E+02	0.00	0.02	0.00	0.02	0.44%
14	10	Subsurface	Chromium	4.47E+01	0.00	0.00		0.00	0.09%
14	10	Subsurface	Copper	1.37E+02	0.01	0.01		0.02	0.40%
14	10	Subsurface	Iron	2.69E+04	0.13	0.07		0.20	4.48%
14	10	Subsurface	Manganese	7.11E+02	0.02	0.01	0.01	0.04	0.81%
14	10	Subsurface	Mercury	2.49E+01	0.29	2.02		2.31	51.90%
14	10	Subsurface	Nickel	5.80E+02	0.10	0.99	0.01	1.09	24.58%
14	10	Subsurface	Silver	1.07E+01	0.01	0.07		0.08	1.81%
14	10	Subsurface	Uranium	2.80E+02	0.32	0.16	0.00	0.48	10.87%
14	10	Subsurface	**Totals**		**1.03**	**3.40**	**0.02**	**4.44**	
14	10	Subsurface	**Percent**		**23.11%**	**76.47%**	**0.42%**		
15	1	Subsurface	Antimony	6.40E-01	0.01	0.02		0.02	2.54%
15	1	Subsurface	Arsenic	1.33E+01	0.15	0.05	0.00	0.20	21.39%
15	1	Subsurface	Chromium	5.61E+01	0.00	0.00		0.01	0.54%
15	1	Subsurface	Copper	1.41E+02	0.01	0.01		0.02	1.96%
15	1	Subsurface	Iron	2.97E+04	0.15	0.07		0.22	23.57%
15	1	Subsurface	Manganese	6.01E+02	0.01	0.01	0.01	0.03	3.28%
15	1	Subsurface	Nickel	1.33E+02	0.02	0.23	0.00	0.25	26.94%
15	1	Subsurface	Silver	1.23E+01	0.01	0.08		0.09	9.89%
15	1	Subsurface	Thallium	6.10E-01	0.03	0.01		0.04	4.23%
15	1	Subsurface	Uranium	3.05E+01	0.04	0.02	0.00	0.05	5.65%
15	1	Subsurface	**Totals**		**0.43**	**0.49**	**0.01**	**0.93**	
15	1	Subsurface	**Percent**		**45.86%**	**52.87%**	**1.27%**		
15	2	Subsurface	Aluminum	1.68E+04	0.06	0.03	0.00	0.09	0.40%
15	2	Subsurface	Antimony	6.60E-01	0.01	0.02		0.02	0.11%
15	2	Subsurface	Arsenic	1.63E+01	0.19	0.06	0.00	0.24	1.09%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	2	Subsurface	Cadmium	1.58E+00	0.01	0.00	0.00	0.01	0.03%
15	2	Subsurface	Chromium	5.90E+01	0.00	0.01		0.01	0.02%
15	2	Subsurface	Iron	3.89E+04	0.19	0.09		0.29	1.28%
15	2	Subsurface	Manganese	1.37E+03	0.03	0.01	0.02	0.07	0.31%
15	2	Subsurface	Mercury	9.33E+00	0.11	0.76		0.86	3.83%
15	2	Subsurface	Nickel	3.75E+02	0.07	0.64	0.00	0.71	3.13%
15	2	Subsurface	Silver	1.06E+01	0.01	0.07		0.08	0.35%
15	2	Subsurface	Uranium	1.32E+02	0.15	0.07	0.00	0.23	1.01%
15	2	Subsurface	Vanadium	3.72E+01	1.85	18.09	0.00	19.93	88.43%
15	2	Subsurface	**Totals**		**2.67**	**19.84**	**0.03**	**22.54**	
15	2	Subsurface	**Percent**		**11.83%**	**88.04%**	**0.13%**		
15	3	Subsurface	Antimony	1.65E+01	0.14	0.47		0.61	10.79%
15	3	Subsurface	Arsenic	3.65E+01	0.42	0.12	0.00	0.55	9.67%
15	3	Subsurface	Beryllium	5.63E-01	0.00	0.01	0.00	0.01	0.19%
15	3	Subsurface	Cadmium	7.30E+00	0.03	0.01	0.00	0.04	0.63%
15	3	Subsurface	Chromium	8.13E+01	0.00	0.01		0.01	0.13%
15	3	Subsurface	Cobalt	2.37E+01	0.27	0.13	0.00	0.41	7.26%
15	3	Subsurface	Copper	1.39E+03	0.12	0.06		0.18	3.18%
15	3	Subsurface	Iron	9.52E+04	0.47	0.23		0.70	12.40%
15	3	Subsurface	Manganese	1.62E+03	0.04	0.02	0.03	0.08	1.45%
15	3	Subsurface	Mercury	1.22E+01	0.14	0.99		1.13	19.95%
15	3	Subsurface	Molybdenum	2.05E+01	0.01	0.01		0.02	0.37%
15	3	Subsurface	Nickel	7.57E+02	0.13	1.29	0.01	1.43	25.11%
15	3	Subsurface	Selenium	2.61E+01	0.02	0.01	0.00	0.03	0.48%
15	3	Subsurface	Silver	1.16E+01	0.01	0.08		0.09	1.53%
15	3	Subsurface	Uranium	2.16E+02	0.25	0.12	0.00	0.37	6.58%
15	3	Subsurface	Zinc	8.98E+02	0.01	0.01		0.02	0.27%
15	3	Subsurface	**Totals**		**2.08**	**3.56**	**0.04**	**5.68**	
15	3	Subsurface	**Percent**		**36.57%**	**62.73%**	**0.70%**		
15	4	Subsurface	Antimony	7.40E+00	0.06	0.21		0.27	4.56%
15	4	Subsurface	Arsenic	3.46E+01	0.40	0.12	0.00	0.52	8.66%
15	4	Subsurface	Cadmium	1.57E+00	0.01	0.00	0.00	0.01	0.13%
15	4	Subsurface	Chromium	9.79E+01	0.00	0.01		0.01	0.15%
15	4	Subsurface	Copper	7.05E+02	0.06	0.03		0.09	1.52%
15	4	Subsurface	Iron	7.81E+04	0.39	0.19		0.58	9.61%
15	4	Subsurface	Manganese	1.54E+03	0.04	0.01	0.03	0.08	1.30%
15	4	Subsurface	Mercury	1.53E+01	0.18	1.24		1.42	23.53%
15	4	Subsurface	Nickel	1.37E+03	0.24	2.34	0.01	2.59	43.06%
15	4	Subsurface	Silver	1.80E+01	0.01	0.12		0.13	2.24%
15	4	Subsurface	Thallium	3.70E-01	0.02	0.01		0.02	0.40%
15	4	Subsurface	Uranium	1.57E+02	0.18	0.09	0.00	0.27	4.50%
15	4	Subsurface	Zinc	1.19E+03	0.01	0.01		0.02	0.34%
15	4	Subsurface	**Totals**		**1.60**	**4.38**	**0.04**	**6.01**	
15	4	Subsurface	**Percent**		**26.57%**	**72.76%**	**0.67%**		
15	5	Subsurface	Aluminum	9.61E+03	0.03	0.02	0.00	0.05	1.48%
15	5	Subsurface	Antimony	2.04E+00	0.02	0.06		0.08	2.17%
15	5	Subsurface	Arsenic	1.33E+01	0.15	0.05	0.00	0.20	5.76%
15	5	Subsurface	Cadmium	9.30E-01	0.00	0.00	0.00	0.00	0.13%
15	5	Subsurface	Chromium	6.58E+01	0.00	0.01		0.01	0.17%
15	5	Subsurface	Copper	5.63E+03	0.49	0.24		0.73	20.99%
15	5	Subsurface	Iron	2.31E+04	0.11	0.06		0.17	4.91%
15	5	Subsurface	Manganese	7.03E+02	0.02	0.01	0.01	0.04	1.03%
15	5	Subsurface	Mercury	1.06E+01	0.12	0.86		0.98	28.35%
15	5	Subsurface	Nickel	3.48E+02	0.06	0.59	0.00	0.66	18.89%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	5	Subsurface	Silver	1.53E+01	0.01	0.10		0.11	3.31%
15	5	Subsurface	Uranium	2.42E+02	0.28	0.14	0.00	0.42	12.05%
15	5	Subsurface	Zinc	1.53E+03	0.02	0.01		0.03	0.76%
15	5	Subsurface	**Totals**		**1.32**	**2.13**	**0.02**	**3.47**	
15	5	Subsurface	**Percent**		**38.08%**	**61.42%**	**0.51%**		
15	6	Subsurface	Antimony	4.00E+00	0.03	0.11		0.15	6.21%
15	6	Subsurface	Arsenic	1.20E+01	0.14	0.04	0.00	0.18	7.58%
15	6	Subsurface	Cadmium	1.16E+00	0.00	0.00	0.00	0.01	0.24%
15	6	Subsurface	Chromium	5.80E+01	0.00	0.01		0.01	0.22%
15	6	Subsurface	Cobalt	1.13E+01	0.13	0.06	0.00	0.20	8.23%
15	6	Subsurface	Copper	4.28E+02	0.04	0.02		0.06	2.32%
15	6	Subsurface	Iron	3.15E+04	0.16	0.08		0.23	9.78%
15	6	Subsurface	Manganese	6.96E+02	0.02	0.01	0.01	0.04	1.48%
15	6	Subsurface	Mercury	7.83E+00	0.09	0.63		0.73	30.39%
15	6	Subsurface	Nickel	3.24E+02	0.06	0.55	0.00	0.61	25.59%
15	6	Subsurface	Silver	1.09E+01	0.01	0.07		0.08	3.43%
15	6	Subsurface	Uranium	6.26E+01	0.07	0.04	0.00	0.11	4.53%
15	6	Subsurface	**Totals**		**0.75**	**1.62**	**0.02**	**2.39**	
15	6	Subsurface	**Percent**		**31.32%**	**67.98%**	**0.70%**		
15	7	Subsurface	Aluminum	1.13E+04	0.04	0.02	0.00	0.06	2.95%
15	7	Subsurface	Antimony	6.72E-01	0.01	0.02		0.02	1.22%
15	7	Subsurface	Arsenic	1.61E+01	0.19	0.05	0.00	0.24	11.91%
15	7	Subsurface	Barium	1.44E+02	0.00	0.02	0.00	0.02	0.99%
15	7	Subsurface	Beryllium	6.61E-01	0.00	0.01	0.00	0.01	0.61%
15	7	Subsurface	Cadmium	6.52E-01	0.00	0.00	0.00	0.00	0.16%
15	7	Subsurface	Chromium	6.54E+01	0.00	0.01		0.01	0.29%
15	7	Subsurface	Copper	7.55E+02	0.07	0.03		0.10	4.80%
15	7	Subsurface	Iron	3.55E+04	0.18	0.09		0.26	12.91%
15	7	Subsurface	Manganese	1.09E+03	0.03	0.01	0.02	0.06	2.73%
15	7	Subsurface	Nickel	5.59E+02	0.10	0.95	0.01	1.05	51.67%
15	7	Subsurface	Silver	1.29E+01	0.01	0.09		0.10	4.74%
15	7	Subsurface	Uranium	5.34E+01	0.06	0.03	0.00	0.09	4.53%
15	7	Subsurface	Zinc	5.85E+02	0.01	0.00		0.01	0.50%
15	7	Subsurface	**Totals**		**0.68**	**1.33**	**0.03**	**2.04**	
15	7	Subsurface	**Percent**		**33.47%**	**65.25%**	**1.28%**		
15	8	Subsurface	Antimony	3.64E+00	0.03	0.10		0.13	6.64%
15	8	Subsurface	Arsenic	1.14E+01	0.13	0.04	0.00	0.17	8.45%
15	8	Subsurface	Chromium	7.53E+01	0.00	0.01		0.01	0.33%
15	8	Subsurface	Copper	1.66E+02	0.01	0.01		0.02	1.06%
15	8	Subsurface	Iron	2.83E+04	0.14	0.07		0.21	10.28%
15	8	Subsurface	Manganese	6.13E+02	0.02	0.01	0.01	0.03	1.54%
15	8	Subsurface	Mercury	1.00E+01	0.12	0.81		0.93	45.75%
15	8	Subsurface	Nickel	1.82E+02	0.03	0.31	0.00	0.34	16.90%
15	8	Subsurface	Silver	1.42E+01	0.01	0.10		0.11	5.26%
15	8	Subsurface	Uranium	4.46E+01	0.05	0.03	0.00	0.08	3.79%
15	8	Subsurface	**Totals**		**0.54**	**1.48**	**0.01**	**2.03**	
15	8	Subsurface	**Percent**		**26.75%**	**72.64%**	**0.61%**		
15	9	Subsurface	Arsenic	1.27E+01	0.15	0.04	0.00	0.19	12.09%
15	9	Subsurface	Chromium	8.92E+01	0.00	0.01		0.01	0.51%
15	9	Subsurface	Copper	1.36E+02	0.01	0.01		0.02	1.12%
15	9	Subsurface	Iron	3.02E+04	0.15	0.07		0.22	14.19%
15	9	Subsurface	Manganese	1.57E+03	0.04	0.02	0.03	0.08	5.06%
15	9	Subsurface	Mercury	6.54E+00	0.08	0.53		0.61	38.47%
15	9	Subsurface	Nickel	1.49E+02	0.03	0.25	0.00	0.28	17.86%

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Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	9	Subsurface	Silver	1.54E+01	0.01	0.10		0.12	7.35%
15	9	Subsurface	Uranium	3.07E+01	0.04	0.02	0.00	0.05	3.37%
15	9	Subsurface	**Totals**		**0.50**	**1.05**	**0.03**	**1.57**	
15	9	Subsurface	**Percent**		**31.46%**	**66.78%**	**1.76%**		
15	10	Subsurface	Arsenic	9.74E+00	0.11	0.03	0.00	0.15	10.68%
15	10	Subsurface	Chromium	6.29E+01	0.00	0.01		0.01	0.41%
15	10	Subsurface	Mercury	7.84E+00	0.09	0.64		0.73	52.90%
15	10	Subsurface	Nickel	1.60E+02	0.03	0.27	0.00	0.30	22.02%
15	10	Subsurface	Silver	1.08E+01	0.01	0.07		0.08	5.91%
15	10	Subsurface	Uranium	6.42E+01	0.07	0.04	0.00	0.11	8.09%
15	10	Subsurface	**Totals**		**0.31**	**1.06**	**0.00**	**1.37**	
15	10	Subsurface	**Percent**		**22.85%**	**76.99%**	**0.16%**		
16	1	Subsurface	Barium	1.28E+02	0.00	0.02	0.00	0.02	28.32%
16	1	Subsurface	Beryllium	6.21E-01	0.00	0.01	0.00	0.01	18.37%
16	1	Subsurface	Nickel	1.80E+01	0.00	0.03	0.00	0.03	53.31%
16	1	Subsurface	**Totals**		**0.01**	**0.06**	**0.00**	**0.06**	
16	1	Subsurface	**Percent**		**10.12%**	**89.26%**	**0.63%**		
16	2	Subsurface	Arsenic	8.72E+00	0.10	0.03	0.00	0.13	35.71%
16	2	Subsurface	Beryllium	6.88E-01	0.00	0.01	0.00	0.01	3.52%
16	2	Subsurface	Chromium	5.03E+01	0.00	0.00		0.00	1.23%
16	2	Subsurface	Nickel	7.56E+01	0.01	0.13	0.00	0.14	38.79%
16	2	Subsurface	Silver	1.02E+01	0.01	0.07		0.08	20.75%
16	2	Subsurface	**Totals**		**0.12**	**0.24**	**0.00**	**0.37**	
16	2	Subsurface	**Percent**		**33.36%**	**66.32%**	**0.32%**		
16	3	Subsurface	Aluminum	1.03E+04	0.04	0.02	0.00	0.06	13.97%
16	3	Subsurface	Arsenic	8.62E+00	0.10	0.03	0.00	0.13	32.79%
16	3	Subsurface	Barium	1.51E+02	0.00	0.02	0.00	0.02	5.38%
16	3	Subsurface	Beryllium	6.15E-01	0.00	0.01	0.00	0.01	2.92%
16	3	Subsurface	Chromium	4.66E+01	0.00	0.00		0.00	1.06%
16	3	Subsurface	Manganese	7.84E+02	0.02	0.01	0.01	0.04	10.09%
16	3	Subsurface	Nickel	7.09E+01	0.01	0.12	0.00	0.13	33.79%
16	3	Subsurface	**Totals**		**0.17**	**0.21**	**0.02**	**0.40**	
16	3	Subsurface	**Percent**		**43.35%**	**52.64%**	**4.02%**		
16	4	Subsurface	Aluminum	1.01E+04	0.04	0.02	0.00	0.05	24.32%
16	4	Subsurface	Nickel	8.94E+01	0.02	0.15	0.00	0.17	75.68%
16	4	Subsurface	**Totals**		**0.05**	**0.17**	**0.00**	**0.22**	
16	4	Subsurface	**Percent**		**22.81%**	**76.08%**	**1.11%**		
19	1	Subsurface	Arsenic	1.01E+01	0.12	0.03	0.00	0.15	0.68%
19	1	Subsurface	Beryllium	1.40E+00	0.00	0.02	0.00	0.03	0.12%
19	1	Subsurface	Cadmium	5.70E+00	0.02	0.01	0.00	0.03	0.13%
19	1	Subsurface	Cobalt	1.35E+01	0.16	0.08	0.00	0.23	1.05%
19	1	Subsurface	Copper	1.80E+03	0.16	0.08		0.23	1.04%
19	1	Subsurface	Nickel	4.38E+02	0.08	0.75	0.00	0.83	3.69%
19	1	Subsurface	Thallium	9.80E-01	0.04	0.02		0.06	0.28%
19	1	Subsurface	Uranium	1.64E+02	0.19	0.09	0.00	0.28	1.27%
19	1	Subsurface	Vanadium	3.83E+01	1.90	18.62	0.00	20.52	91.75%
19	1	Subsurface	**Totals**		**2.66**	**19.70**	**0.01**	**22.37**	
19	1	Subsurface	**Percent**		**11.90%**	**88.06%**	**0.03%**		
26	1	Subsurface	Aluminum	1.11E+04	0.04	0.02	0.00	0.06	3.49%
26	1	Subsurface	Antimony	8.00E-01	0.01	0.02		0.03	1.74%
26	1	Subsurface	Arsenic	1.06E+01	0.12	0.04	0.00	0.16	9.34%
26	1	Subsurface	Beryllium	6.51E+00	0.01	0.11	0.00	0.12	7.19%
26	1	Subsurface	Cadmium	2.09E+00	0.01	0.00	0.00	0.01	0.60%
26	1	Subsurface	Cobalt	8.55E+00	0.10	0.05	0.00	0.15	8.74%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
26	1	Subsurface	Manganese	6.46E+02	0.02	0.01	0.01	0.03	1.93%
26	1	Subsurface	Mercury	6.78E+00	0.08	0.55		0.63	36.93%
26	1	Subsurface	Nickel	9.66E+01	0.02	0.16	0.00	0.18	10.70%
26	1	Subsurface	Silver	8.48E+00	0.01	0.06		0.06	3.74%
26	1	Subsurface	Thallium	4.10E-01	0.02	0.01		0.03	1.56%
26	1	Subsurface	Trichloroethene	1.19E-02	0.00	0.00	0.00	0.00	0.04%
26	1	Subsurface	Uranium	1.38E+02	0.16	0.08	0.00	0.24	13.99%
26	1	Subsurface	**Totals**		**0.58**	**1.10**	**0.02**	**1.70**	
26	1	Subsurface	**Percent**		**34.12%**	**64.95%**	**0.94%**		
26	2	Subsurface	Aluminum	1.68E+04	0.06	0.03	0.00	0.09	0.47%
26	2	Subsurface	Antimony	1.00E+00	0.01	0.03		0.04	0.19%
26	2	Subsurface	Arsenic	1.91E+01	0.22	0.07	0.00	0.29	1.51%
26	2	Subsurface	Barium	1.50E+02	0.00	0.02	0.00	0.02	0.11%
26	2	Subsurface	Beryllium	8.44E+00	0.01	0.14	0.00	0.16	0.83%
26	2	Subsurface	Cadmium	1.55E+00	0.01	0.00	0.00	0.01	0.04%
26	2	Subsurface	Chromium	5.99E+01	0.00	0.01		0.01	0.03%
26	2	Subsurface	Cobalt	2.91E+01	0.34	0.17	0.00	0.51	2.65%
26	2	Subsurface	Copper	7.33E+01	0.01	0.00		0.01	0.05%
26	2	Subsurface	Iron	2.65E+04	0.13	0.06		0.20	1.02%
26	2	Subsurface	Manganese	6.80E+02	0.02	0.01	0.01	0.03	0.18%
26	2	Subsurface	Mercury	8.92E+00	0.10	0.72		0.83	4.32%
26	2	Subsurface	Nickel	7.35E+01	0.01	0.13	0.00	0.14	0.72%
26	2	Subsurface	Silver	7.82E+00	0.01	0.05		0.06	0.31%
26	2	Subsurface	Thallium	8.91E+00	0.39	0.19		0.58	3.01%
26	2	Subsurface	Uranium	2.51E+02	0.29	0.14	0.00	0.43	2.27%
26	2	Subsurface	Vanadium	2.94E+01	1.46	14.27	0.00	15.73	82.28%
26	2	Subsurface	**Totals**		**3.06**	**16.04**	**0.02**	**19.12**	
26	2	Subsurface	**Percent**		**16.01%**	**83.88%**	**0.11%**		
26	3	Subsurface	Aluminum	1.01E+04	0.04	0.02	0.00	0.05	0.27%
26	3	Subsurface	Antimony	1.40E+00	0.01	0.04		0.05	0.26%
26	3	Subsurface	Arsenic	4.16E+01	0.48	0.14	0.00	0.63	3.08%
26	3	Subsurface	Barium	3.84E+02	0.01	0.05	0.00	0.05	0.27%
26	3	Subsurface	Beryllium	3.86E+00	0.01	0.07	0.00	0.07	0.36%
26	3	Subsurface	Cadmium	2.34E+00	0.01	0.00	0.00	0.01	0.06%
26	3	Subsurface	Chromium	3.51E+01	0.00	0.00		0.00	0.02%
26	3	Subsurface	Cobalt	1.02E+01	0.12	0.06	0.00	0.18	0.87%
26	3	Subsurface	Iron	1.47E+04	0.07	0.04		0.11	0.54%
26	3	Subsurface	Manganese	4.16E+02	0.01	0.00	0.01	0.02	0.10%
26	3	Subsurface	Mercury	4.13E+00	0.05	0.33		0.38	1.88%
26	3	Subsurface	Naphthalene	1.05E+00	0.00	0.00	0.01	0.01	0.05%
26	3	Subsurface	Nickel	4.80E+01	0.01	0.08	0.00	0.09	0.45%
26	3	Subsurface	Silver	2.15E+01	0.01	0.15		0.16	0.79%
26	3	Subsurface	Thallium	6.00E-01	0.03	0.01		0.04	0.19%
26	3	Subsurface	Uranium	9.12E+01	0.11	0.05	0.00	0.16	0.78%
26	3	Subsurface	Vanadium	3.41E+01	1.70	16.60	0.00	18.29	90.06%
26	3	Subsurface	**Totals**		**2.65**	**17.64**	**0.02**	**20.31**	
26	3	Subsurface	**Percent**		**13.05%**	**86.84%**	**0.12%**		
26	4	Subsurface	Aluminum	1.24E+04	0.04	0.02	0.00	0.07	0.22%
26	4	Subsurface	Antimony	1.90E+00	0.02	0.05		0.07	0.24%
26	4	Subsurface	Arsenic	1.21E+01	0.14	0.04	0.00	0.18	0.61%
26	4	Subsurface	Beryllium	7.63E-01	0.00	0.01	0.00	0.01	0.05%
26	4	Subsurface	Cadmium	1.99E+00	0.01	0.00	0.00	0.01	0.03%
26	4	Subsurface	Chromium	1.35E+02	0.00	0.01		0.01	0.04%
26	4	Subsurface	Cobalt	1.04E+01	0.12	0.06	0.00	0.18	0.61%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
26	4	Subsurface	Copper	1.87E+03	0.16	0.08		0.24	0.82%
26	4	Subsurface	Iron	2.04E+04	0.10	0.05		0.15	0.51%
26	4	Subsurface	Manganese	6.69E+02	0.02	0.01	0.01	0.03	0.11%
26	4	Subsurface	Mercury	6.75E+00	0.08	0.55		0.62	2.11%
26	4	Subsurface	Nickel	4.41E+03	0.77	7.51	0.04	8.31	28.05%
26	4	Subsurface	Silver	4.12E+00	0.00	0.03		0.03	0.10%
26	4	Subsurface	Uranium	8.05E+02	0.93	0.46	0.00	1.39	4.70%
26	4	Subsurface	Vanadium	3.42E+01	1.70	16.62	0.00	18.31	61.80%
26	4	Subsurface	**Totals**		**4.09**	**25.49**	**0.06**	**29.64**	
26	4	Subsurface	**Percent**		**13.79%**	**86.02%**	**0.19%**		
27	1	Subsurface	Nickel	3.97E+01	0.01	0.07	0.00	0.07	100.00%
27	1	Subsurface	**Totals**		**0.01**	**0.07**	**0.00**	**0.07**	
27	1	Subsurface	**Percent**		**9.22%**	**90.30%**	**0.48%**		
47	1	Subsurface	Aluminum	1.55E+04	0.05	0.03	0.00	0.08	4.50%
47	1	Subsurface	Antimony	9.00E-01	0.01	0.03		0.03	1.81%
47	1	Subsurface	Arsenic	4.52E+01	0.52	0.15	0.00	0.68	36.95%
47	1	Subsurface	Beryllium	7.00E-01	0.00	0.01	0.00	0.01	0.71%
47	1	Subsurface	Cadmium	1.28E+01	0.04	0.02	0.00	0.06	3.42%
47	1	Subsurface	Chromium	5.39E+01	0.00	0.00		0.00	0.26%
47	1	Subsurface	Cobalt	1.69E+01	0.20	0.10	0.00	0.29	15.98%
47	1	Subsurface	Iron	2.95E+04	0.15	0.07		0.22	11.86%
47	1	Subsurface	Manganese	1.69E+03	0.04	0.02	0.03	0.09	4.67%
47	1	Subsurface	Naphthalene	1.90E+00	0.00	0.00	0.02	0.02	1.00%
47	1	Subsurface	Nickel	8.25E+01	0.01	0.14	0.00	0.16	8.45%
47	1	Subsurface	Pyrene	1.11E+02	0.01	0.02	0.00	0.03	1.61%
47	1	Subsurface	trans-1,2-Dichloroethene	2.50E+00	0.00	0.00	0.02	0.02	0.96%
47	1	Subsurface	Trichloroethene	1.40E+00	0.02	0.04	0.02	0.07	3.89%
47	1	Subsurface	Uranium	4.17E+01	0.05	0.02	0.00	0.07	3.92%
47	1	Subsurface	**Totals**		**1.11**	**0.65**	**0.09**	**1.84**	
47	1	Subsurface	**Percent**		**60.21%**	**35.09%**	**4.70%**		
74	1	Subsurface	**Totals**					**0.00**	
74	1	Subsurface	**Percent**						
75	1	Subsurface	Arsenic	1.68E+01	0.19	0.06	0.00	0.25	31.64%
75	1	Subsurface	Cadmium	1.10E+00	0.00	0.00	0.00	0.01	0.68%
75	1	Subsurface	Chromium	7.17E+01	0.00	0.01		0.01	0.80%
75	1	Subsurface	Copper	3.15E+02	0.03	0.01		0.04	5.10%
75	1	Subsurface	Iron	4.42E+04	0.22	0.11		0.33	40.87%
75	1	Subsurface	Nickel	8.87E+01	0.02	0.15	0.00	0.17	20.91%
75	1	Subsurface	**Totals**		**0.46**	**0.34**	**0.00**	**0.80**	
75	1	Subsurface	**Percent**		**57.66%**	**42.12%**	**0.23%**		
76	1	Subsurface	Arsenic	1.31E+01	0.15	0.04	0.00	0.20	21.31%
76	1	Subsurface	Barium	2.69E+02	0.00	0.03	0.00	0.04	4.09%
76	1	Subsurface	Mercury	7.45E+00	0.09	0.60		0.69	74.60%
76	1	Subsurface	**Totals**		**0.24**	**0.68**	**0.00**	**0.92**	
76	1	Subsurface	**Percent**		**26.25%**	**73.63%**	**0.12%**		
78	1	Subsurface	Aluminum	1.49E+04	0.05	0.03	0.00	0.08	12.71%
78	1	Subsurface	Barium	1.77E+02	0.00	0.02	0.00	0.02	3.98%
78	1	Subsurface	Cadmium	2.36E+00	0.01	0.00	0.00	0.01	1.85%
78	1	Subsurface	Cobalt	1.61E+01	0.19	0.09	0.00	0.28	44.75%
78	1	Subsurface	Manganese	1.47E+03	0.04	0.01	0.02	0.07	11.95%
78	1	Subsurface	Naphthalene	1.60E+01	0.00	0.01	0.15	0.15	24.76%
78	1	Subsurface	**Totals**		**0.29**	**0.16**	**0.17**	**0.63**	
78	1	Subsurface	**Percent**		**46.16%**	**25.96%**	**27.88%**		
80	1	Subsurface	Antimony	9.10E-01	0.01	0.03		0.03	0.33%

SWMU = solid waste management unit
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EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
80	1	Subsurface	Arsenic	1.01E+01	0.12	0.03	0.00	0.15	1.49%
80	1	Subsurface	Beryllium	7.80E-01	0.00	0.01	0.00	0.01	0.14%
80	1	Subsurface	Chromium	1.65E+02	0.00	0.01		0.01	0.15%
80	1	Subsurface	Mercury	4.50E-01	0.01	0.04		0.04	0.41%
80	1	Subsurface	Uranium	5.72E+03	6.63	3.25	0.02	9.89	97.47%
80	1	Subsurface	**Totals**		**6.76**	**3.37**	**0.02**	**10.15**	
80	1	Subsurface	**Percent**		**66.63%**	**33.21%**	**0.16%**		
81	1	Subsurface	Aluminum	9.55E+03	0.03	0.02	0.00	0.05	0.40%
81	1	Subsurface	Arsenic	1.11E+01	0.13	0.04	0.00	0.17	1.31%
81	1	Subsurface	Beryllium	6.98E-01	0.00	0.01	0.00	0.01	0.10%
81	1	Subsurface	Chromium	6.38E+01	0.00	0.01		0.01	0.04%
81	1	Subsurface	Cobalt	1.58E+01	0.18	0.09	0.00	0.27	2.15%
81	1	Subsurface	Manganese	1.12E+03	0.03	0.01	0.02	0.06	0.45%
81	1	Subsurface	Mercury	8.33E+00	0.10	0.67		0.77	6.05%
81	1	Subsurface	Nickel	7.50E+01	0.01	0.13	0.00	0.14	1.11%
81	1	Subsurface	Silver	2.70E+00	0.00	0.02		0.02	0.16%
81	1	Subsurface	Thallium	3.49E-01	0.02	0.01		0.02	0.18%
81	1	Subsurface	Uranium	6.50E+03	7.53	3.69	0.02	11.23	88.05%
81	1	Subsurface	**Totals**		**8.03**	**4.69**	**0.04**	**12.76**	
81	1	Subsurface	**Percent**		**62.94%**	**36.73%**	**0.32%**		
99	1	Subsurface	Aluminum	1.16E+04	0.04	0.02	0.00	0.06	4.35%
99	1	Subsurface	Arsenic	9.94E+00	0.12	0.03	0.00	0.15	10.45%
99	1	Subsurface	Barium	1.35E+02	0.00	0.02	0.00	0.02	1.33%
99	1	Subsurface	Beryllium	7.22E-01	0.00	0.01	0.00	0.01	0.95%
99	1	Subsurface	Chromium	6.29E+01	0.00	0.01		0.01	0.39%
99	1	Subsurface	Manganese	6.28E+02	0.02	0.01	0.01	0.03	2.23%
99	1	Subsurface	Mercury	9.53E+00	0.11	0.77		0.88	61.72%
99	1	Subsurface	Nickel	8.52E+01	0.01	0.14	0.00	0.16	11.22%
99	1	Subsurface	Silver	1.03E+01	0.01	0.07		0.08	5.40%
99	1	Subsurface	Uranium	1.61E+01	0.02	0.01	0.00	0.03	1.94%
99	1	Subsurface	**Totals**		**0.33**	**1.09**	**0.01**	**1.43**	
99	1	Subsurface	**Percent**		**22.79%**	**76.25%**	**0.96%**		
99	2	Subsurface	Chromium	4.57E+01	0.00	0.00		0.00	100.00%
99	2	Subsurface	**Totals**		**0.00**	**0.00**		**0.00**	
99	2	Subsurface	**Percent**		**2.59%**	**97.41%**			
135	1	Subsurface	**Totals**					**0.00**	
135	1	Subsurface	**Percent**						
138	1	Subsurface	Aluminum	1.08E+04	0.04	0.02	0.00	0.06	0.31%
138	1	Subsurface	Antimony	4.55E+00	0.04	0.13		0.17	0.92%
138	1	Subsurface	Arsenic	1.08E+01	0.12	0.04	0.00	0.16	0.88%
138	1	Subsurface	Barium	1.99E+02	0.00	0.02	0.00	0.03	0.15%
138	1	Subsurface	Beryllium	6.28E-01	0.00	0.01	0.00	0.01	0.06%
138	1	Subsurface	Cadmium	4.87E+00	0.02	0.01	0.00	0.02	0.13%
138	1	Subsurface	Chromium	5.65E+01	0.00	0.00		0.01	0.03%
138	1	Subsurface	Cobalt	9.18E+00	0.11	0.05	0.00	0.16	0.87%
138	1	Subsurface	Iron	1.99E+04	0.10	0.05		0.15	0.80%
138	1	Subsurface	Manganese	6.55E+02	0.02	0.01	0.01	0.03	0.18%
138	1	Subsurface	Mercury	1.46E+01	0.17	1.18		1.35	7.32%
138	1	Subsurface	Nickel	7.71E+01	0.01	0.13	0.00	0.15	0.79%
138	1	Subsurface	Silver	1.01E+01	0.01	0.07		0.08	0.41%
138	1	Subsurface	Thallium	6.20E-01	0.03	0.01		0.04	0.22%
138	1	Subsurface	Vanadium	2.99E+01	1.48	14.53	0.00	16.01	86.94%
138	1	Subsurface	**Totals**		**2.14**	**16.26**	**0.02**	**18.42**	
138	1	Subsurface	**Percent**		**11.64%**	**88.27%**	**0.09%**		

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EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
138	2	Subsurface	Arsenic	1.03E+01	0.12	0.04	0.00	0.16	12.47%
138	2	Subsurface	Cadmium	5.00E-01	0.00	0.00	0.00	0.00	0.20%
138	2	Subsurface	Chromium	6.28E+01	0.00	0.01		0.01	0.45%
138	2	Subsurface	Mercury	8.30E+00	0.10	0.67		0.77	61.66%
138	2	Subsurface	Nickel	9.60E+01	0.02	0.16	0.00	0.18	14.51%
138	2	Subsurface	Silver	1.53E+01	0.01	0.10		0.11	9.21%
138	2	Subsurface	Thallium	2.90E-01	0.01	0.01		0.02	1.51%
138	2	Subsurface	**Totals**		**0.26**	**0.99**	**0.00**	**1.25**	
138	2	Subsurface	**Percent**		**20.67%**	**79.21%**	**0.12%**		
153	1	Subsurface	Arsenic	9.92E+00	0.11	0.03	0.00	0.15	34.64%
153	1	Subsurface	Chromium	6.59E+01	0.00	0.01		0.01	1.37%
153	1	Subsurface	Manganese	5.73E+02	0.01	0.01	0.01	0.03	6.77%
153	1	Subsurface	Nickel	7.83E+01	0.01	0.13	0.00	0.15	34.27%
153	1	Subsurface	Silver	1.32E+01	0.01	0.09		0.10	22.94%
153	1	Subsurface	**Totals**		**0.15**	**0.27**	**0.01**	**0.43**	
153	1	Subsurface	**Percent**		**35.31%**	**62.23%**	**2.46%**		
154	1	Subsurface	Arsenic	1.52E+01	0.18	0.05	0.00	0.23	42.36%
154	1	Subsurface	Chromium	7.21E+01	0.00	0.01		0.01	1.20%
154	1	Subsurface	Manganese	1.02E+03	0.03	0.01	0.02	0.05	9.61%
154	1	Subsurface	Nickel	9.89E+01	0.02	0.17	0.00	0.19	34.59%
154	1	Subsurface	Uranium	3.82E+01	0.04	0.02	0.00	0.07	12.25%
154	1	Subsurface	**Totals**		**0.26**	**0.26**	**0.02**	**0.54**	
154	1	Subsurface	**Percent**		**48.74%**	**47.84%**	**3.42%**		
154	2	Subsurface	**Totals**					**0.00**	
154	2	Subsurface	**Percent**						
155	1	Subsurface	Antimony	3.65E+00	0.03	0.10		0.14	27.17%
155	1	Subsurface	Arsenic	9.01E+00	0.10	0.03	0.00	0.14	27.20%
155	1	Subsurface	Nickel	7.65E+01	0.01	0.13	0.00	0.14	28.94%
155	1	Subsurface	Silver	1.11E+01	0.01	0.08		0.08	16.68%
155	1	Subsurface	**Totals**		**0.16**	**0.34**	**0.00**	**0.50**	
155	1	Subsurface	**Percent**		**31.54%**	**68.22%**	**0.24%**		
156	1	Subsurface	Arsenic	1.11E+01	0.13	0.04	0.00	0.17	9.31%
156	1	Subsurface	Beryllium	1.00E+00	0.00	0.02	0.00	0.02	1.05%
156	1	Subsurface	Chromium	6.31E+01	0.00	0.01		0.01	0.31%
156	1	Subsurface	Cobalt	1.72E+01	0.20	0.10	0.00	0.30	16.67%
156	1	Subsurface	Manganese	2.83E+03	0.07	0.03	0.05	0.14	8.03%
156	1	Subsurface	Mercury	9.87E+00	0.11	0.80		0.91	50.94%
156	1	Subsurface	Nickel	6.16E+01	0.01	0.10	0.00	0.12	6.47%
156	1	Subsurface	Silver	1.19E+01	0.01	0.08		0.09	4.98%
156	1	Subsurface	Uranium	2.32E+01	0.03	0.01	0.00	0.04	2.23%
156	1	Subsurface	**Totals**		**0.56**	**1.18**	**0.05**	**1.79**	
156	1	Subsurface	**Percent**		**31.22%**	**66.00%**	**2.78%**		
158	1	Subsurface	Antimony	4.90E-01	0.00	0.01		0.02	1.05%
158	1	Subsurface	Arsenic	9.51E+00	0.11	0.03	0.00	0.14	8.29%
158	1	Subsurface	Barium	1.64E+02	0.00	0.02	0.00	0.02	1.34%
158	1	Subsurface	Beryllium	5.69E-01	0.00	0.01	0.00	0.01	0.62%
158	1	Subsurface	Chromium	5.11E+01	0.00	0.00		0.00	0.27%
158	1	Subsurface	Cobalt	1.26E+01	0.15	0.07	0.00	0.22	12.64%
158	1	Subsurface	Manganese	1.04E+03	0.03	0.01	0.02	0.05	3.08%
158	1	Subsurface	Mercury	1.05E+01	0.12	0.85		0.97	56.08%
158	1	Subsurface	Nickel	8.12E+01	0.01	0.14	0.00	0.15	8.86%
158	1	Subsurface	Silver	1.01E+01	0.01	0.07		0.08	4.37%
158	1	Subsurface	Thallium	3.69E-01	0.02	0.01		0.02	1.38%
158	1	Subsurface	Uranium	2.03E+01	0.02	0.01	0.00	0.04	2.03%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
158	1	Subsurface	**Totals**		**0.47**	**1.24**	**0.02**	**1.73**	
158	1	Subsurface	**Percent**		**27.30%**	**71.52%**	**1.18%**		
160	1	Subsurface	Antimony	6.80E-01	0.01	0.02		0.03	10.61%
160	1	Subsurface	Arsenic	8.22E+00	0.10	0.03	0.00	0.12	52.07%
160	1	Subsurface	Chromium	4.63E+01	0.00	0.00		0.00	1.74%
160	1	Subsurface	Silver	1.13E+01	0.01	0.08		0.08	35.57%
160	1	Subsurface	**Totals**		**0.11**	**0.13**	**0.00**	**0.24**	
160	1	Subsurface	**Percent**		**45.93%**	**53.88%**	**0.19%**		
163	1	Subsurface	Arsenic	1.00E+01	0.12	0.03	0.00	0.15	0.82%
163	1	Subsurface	Chromium	5.89E+01	0.00	0.01		0.01	0.03%
163	1	Subsurface	Mercury	7.53E+00	0.09	0.61		0.70	3.81%
163	1	Subsurface	Nickel	7.54E+01	0.01	0.13	0.00	0.14	0.78%
163	1	Subsurface	Silver	1.05E+01	0.01	0.07		0.08	0.43%
163	1	Subsurface	Vanadium	3.21E+01	1.59	15.62	0.00	17.21	94.13%
163	1	Subsurface	**Totals**		**1.82**	**16.46**	**0.00**	**18.28**	
163	1	Subsurface	**Percent**		**9.94%**	**90.05%**	**0.01%**		
165	1	Subsurface	Aluminum	8.41E+03	0.03	0.01	0.00	0.04	2.42%
165	1	Subsurface	Antimony	2.20E+00	0.02	0.06		0.08	4.40%
165	1	Subsurface	Arsenic	6.37E+01	0.74	0.22	0.00	0.96	51.68%
165	1	Subsurface	Barium	5.25E+02	0.01	0.06	0.00	0.07	3.98%
165	1	Subsurface	Beryllium	8.14E-01	0.00	0.01	0.00	0.02	0.83%
165	1	Subsurface	Chromium	3.61E+01	0.00	0.00		0.00	0.17%
165	1	Subsurface	Cobalt	8.44E+00	0.10	0.05	0.00	0.15	7.91%
165	1	Subsurface	Mercury	3.77E-01	0.00	0.03		0.03	1.88%
165	1	Subsurface	Naphthalene	1.51E+00	0.00	0.00	0.01	0.01	0.79%
165	1	Subsurface	Nickel	3.36E+01	0.01	0.06	0.00	0.06	3.41%
165	1	Subsurface	Silver	3.09E+01	0.02	0.21		0.23	12.51%
165	1	Subsurface	Uranium	1.08E+02	0.12	0.06	0.00	0.19	10.02%
165	1	Subsurface	**Totals**		**1.05**	**0.78**	**0.02**	**1.85**	
165	1	Subsurface	**Percent**		**56.69%**	**42.17%**	**1.14%**		
169	1	Subsurface	Aluminum	2.06E+04	0.07	0.04	0.00	0.11	0.38%
169	1	Subsurface	Antimony	1.30E+00	0.01	0.04		0.05	0.17%
169	1	Subsurface	Arsenic	2.03E+01	0.24	0.07	0.00	0.31	1.06%
169	1	Subsurface	Barium	2.81E+02	0.00	0.03	0.00	0.04	0.14%
169	1	Subsurface	Beryllium	2.30E+00	0.00	0.04	0.00	0.04	0.15%
169	1	Subsurface	Chromium	2.15E+02	0.00	0.02		0.02	0.07%
169	1	Subsurface	Cobalt	7.80E+01	0.90	0.44	0.01	1.36	4.71%
169	1	Subsurface	Copper	4.28E+02	0.04	0.02		0.06	0.19%
169	1	Subsurface	Iron	4.16E+04	0.21	0.10		0.31	1.07%
169	1	Subsurface	Manganese	1.58E+03	0.04	0.02	0.03	0.08	0.28%
169	1	Subsurface	Mercury	7.87E+00	0.09	0.64		0.73	2.53%
169	1	Subsurface	Nickel	8.04E+02	0.14	1.37	0.01	1.52	5.26%
169	1	Subsurface	Thallium	4.60E-01	0.02	0.01		0.03	0.10%
169	1	Subsurface	Uranium	5.03E+01	0.06	0.03	0.00	0.09	0.30%
169	1	Subsurface	Vanadium	4.49E+01	2.23	21.83	0.00	24.06	83.58%
169	1	Subsurface	**Totals**		**4.05**	**24.68**	**0.05**	**28.78**	
169	1	Subsurface	**Percent**		**14.08%**	**85.75%**	**0.17%**		
170	1	Subsurface	**Totals**					**0.00**	
170	1	Subsurface	**Percent**						
176	1	Subsurface	Arsenic	4.86E+01	0.56	0.17	0.00	0.73	72.67%
176	1	Subsurface	Chromium	6.11E+01	0.00	0.01		0.01	0.54%
176	1	Subsurface	Nickel	1.07E+02	0.02	0.18	0.00	0.20	20.09%
176	1	Subsurface	Thallium	4.50E-01	0.02	0.01		0.03	2.90%
176	1	Subsurface	Uranium	2.21E+01	0.03	0.01	0.00	0.04	3.80%

SWMU = solid waste management unit
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Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
176	1	Subsurface	**Totals**		**0.63**	**0.37**	**0.00**	**1.00**	
176	1	Subsurface	**Percent**		**62.32%**	**37.31%**	**0.37%**		
177	1	Subsurface	Arsenic	9.50E+00	0.11	0.03	0.00	0.14	9.74%
177	1	Subsurface	Chromium	6.62E+01	0.00	0.01		0.01	0.40%
177	1	Subsurface	Manganese	9.58E+02	0.02	0.01	0.02	0.05	3.32%
177	1	Subsurface	Mercury	1.05E+01	0.12	0.85		0.98	66.53%
177	1	Subsurface	Nickel	8.47E+01	0.01	0.14	0.00	0.16	10.87%
177	1	Subsurface	Silver	1.44E+01	0.01	0.10		0.11	7.37%
177	1	Subsurface	Thallium	4.00E-01	0.02	0.01		0.03	1.76%
177	1	Subsurface	**Totals**		**0.30**	**1.15**	**0.02**	**1.47**	
177	1	Subsurface	**Percent**		**20.32%**	**78.52%**	**1.15%**		
180	1	Subsurface	Antimony	5.97E-01	0.01	0.02		0.02	0.88%
180	1	Subsurface	Arsenic	7.57E+01	0.88	0.26	0.00	1.14	45.30%
180	1	Subsurface	Beryllium	6.25E-01	0.00	0.01	0.00	0.01	0.47%
180	1	Subsurface	Chromium	6.34E+01	0.00	0.01		0.01	0.23%
180	1	Subsurface	Cobalt	1.37E+01	0.16	0.08	0.00	0.24	9.49%
180	1	Subsurface	Manganese	8.24E+02	0.02	0.01	0.01	0.04	1.67%
180	1	Subsurface	Mercury	8.28E+00	0.10	0.67		0.77	30.50%
180	1	Subsurface	Nickel	9.03E+01	0.02	0.15	0.00	0.17	6.77%
180	1	Subsurface	Silver	1.17E+01	0.01	0.08		0.09	3.48%
180	1	Subsurface	Thallium	4.73E-01	0.02	0.01		0.03	1.22%
180	1	Subsurface	**Totals**		**1.20**	**1.29**	**0.02**	**2.51**	
180	1	Subsurface	**Percent**		**47.86%**	**51.34%**	**0.81%**		
180	2	Subsurface	Antimony	4.58E-01	0.00	0.01		0.02	1.46%
180	2	Subsurface	Arsenic	1.17E+01	0.14	0.04	0.00	0.18	15.16%
180	2	Subsurface	Chromium	6.02E+01	0.00	0.01		0.01	0.47%
180	2	Subsurface	Manganese	6.72E+02	0.02	0.01	0.01	0.03	2.95%
180	2	Subsurface	Mercury	8.25E+00	0.10	0.67		0.76	65.92%
180	2	Subsurface	Nickel	8.64E+01	0.02	0.15	0.00	0.16	14.04%
180	2	Subsurface	**Totals**		**0.27**	**0.88**	**0.01**	**1.16**	
180	2	Subsurface	**Percent**		**23.01%**	**75.92%**	**1.07%**		
180	3	Subsurface	Arsenic	1.36E+01	0.16	0.05	0.00	0.20	1.29%
180	3	Subsurface	Beryllium	5.03E-01	0.00	0.01	0.00	0.01	0.06%
180	3	Subsurface	Chromium	5.44E+01	0.00	0.00		0.00	0.03%
180	3	Subsurface	Manganese	5.12E+02	0.01	0.00	0.01	0.03	0.16%
180	3	Subsurface	Nickel	7.17E+01	0.01	0.12	0.00	0.14	0.85%
180	3	Subsurface	Silver	1.14E+01	0.01	0.08		0.09	0.54%
180	3	Subsurface	Vanadium	2.87E+01	1.42	13.94	0.00	15.36	97.06%
180	3	Subsurface	**Totals**		**1.62**	**14.20**	**0.01**	**15.83**	
180	3	Subsurface	**Percent**		**10.20%**	**89.73%**	**0.06%**		
180	4	Subsurface	Arsenic	1.11E+01	0.13	0.04	0.00	0.17	0.83%
180	4	Subsurface	Barium	1.63E+02	0.00	0.02	0.00	0.02	0.11%
180	4	Subsurface	Beryllium	1.14E+00	0.00	0.02	0.00	0.02	0.11%
180	4	Subsurface	Chromium	6.00E+01	0.00	0.01		0.01	0.03%
180	4	Subsurface	Cobalt	9.68E+00	0.11	0.05	0.00	0.17	0.84%
180	4	Subsurface	Iron	1.61E+04	0.08	0.04		0.12	0.59%
180	4	Subsurface	Manganese	8.05E+02	0.02	0.01	0.01	0.04	0.20%
180	4	Subsurface	Mercury	6.89E+00	0.08	0.56		0.64	3.17%
180	4	Subsurface	Nickel	6.99E+01	0.01	0.12	0.00	0.13	0.65%
180	4	Subsurface	Silver	1.16E+01	0.01	0.08		0.09	0.43%
180	4	Subsurface	Vanadium	3.50E+01	1.74	17.02	0.00	18.75	93.05%
180	4	Subsurface	**Totals**		**2.18**	**17.96**	**0.02**	**20.15**	
180	4	Subsurface	**Percent**		**10.83%**	**89.09%**	**0.08%**		
181	1	Subsurface	Chromium	3.44E+01	0.00	0.00		0.00	1.34%

SWMU = solid waste management unit
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COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
181	1	Subsurface	Thallium	3.50E+00	0.15	0.07		0.23	98.66%
181	1	Subsurface	**Totals**		**0.15**	**0.08**		**0.23**	
181	1	Subsurface	**Percent**		**66.27%**	**33.73%**			
194	1	Subsurface	Antimony	8.62E-01	0.01	0.02		0.03	0.15%
194	1	Subsurface	Arsenic	1.02E+01	0.12	0.03	0.00	0.15	0.73%
194	1	Subsurface	Beryllium	5.96E-01	0.00	0.01	0.00	0.01	0.05%
194	1	Subsurface	Chromium	5.11E+01	0.00	0.00		0.00	0.02%
194	1	Subsurface	Manganese	5.82E+02	0.01	0.01	0.01	0.03	0.14%
194	1	Subsurface	Mercury	6.71E+00	0.08	0.54		0.62	2.94%
194	1	Subsurface	Nickel	6.12E+01	0.01	0.10	0.00	0.12	0.55%
194	1	Subsurface	Silver	1.09E+01	0.01	0.07		0.08	0.39%
194	1	Subsurface	Thallium	3.84E-01	0.02	0.01		0.02	0.12%
194	1	Subsurface	Vanadium	3.74E+01	1.86	18.20	0.00	20.06	94.92%
194	1	Subsurface	**Totals**		**2.11**	**19.01**	**0.01**	**21.14**	
194	1	Subsurface	**Percent**		**10.00%**	**89.95%**	**0.05%**		
194	2	Subsurface	Antimony	6.59E-01	0.01	0.02		0.02	0.12%
194	2	Subsurface	Arsenic	1.02E+01	0.12	0.03	0.00	0.15	0.77%
194	2	Subsurface	Beryllium	6.96E-01	0.00	0.01	0.00	0.01	0.07%
194	2	Subsurface	Chromium	5.96E+01	0.00	0.01		0.01	0.03%
194	2	Subsurface	Manganese	7.01E+02	0.02	0.01	0.01	0.04	0.18%
194	2	Subsurface	Mercury	6.90E+00	0.08	0.56		0.64	3.19%
194	2	Subsurface	Silver	1.39E+01	0.01	0.09		0.10	0.52%
194	2	Subsurface	Uranium	2.68E+01	0.03	0.02	0.00	0.05	0.23%
194	2	Subsurface	Vanadium	3.55E+01	1.76	17.24	0.00	19.01	94.90%
194	2	Subsurface	**Totals**		**2.02**	**17.99**	**0.01**	**20.03**	
194	2	Subsurface	**Percent**		**10.11%**	**89.83%**	**0.06%**		
194	3	Subsurface	Antimony	5.92E-01	0.01	0.02		0.02	6.05%
194	3	Subsurface	Arsenic	1.44E+01	0.17	0.05	0.00	0.22	59.87%
194	3	Subsurface	Chromium	4.98E+01	0.00	0.00		0.00	1.23%
194	3	Subsurface	Nickel	6.32E+01	0.01	0.11	0.00	0.12	32.85%
194	3	Subsurface	**Totals**		**0.18**	**0.18**	**0.00**	**0.36**	
194	3	Subsurface	**Percent**		**50.59%**	**49.04%**	**0.38%**		
194	4	Subsurface	Aluminum	8.50E+03	0.03	0.01	0.00	0.05	0.25%
194	4	Subsurface	Arsenic	1.02E+01	0.12	0.03	0.00	0.15	0.86%
194	4	Subsurface	Beryllium	5.87E-01	0.00	0.01	0.00	0.01	0.06%
194	4	Subsurface	Chromium	5.59E+01	0.00	0.00		0.01	0.03%
194	4	Subsurface	Iron	1.83E+04	0.09	0.04		0.14	0.76%
194	4	Subsurface	Manganese	4.76E+02	0.01	0.00	0.01	0.02	0.14%
194	4	Subsurface	Mercury	8.92E+00	0.10	0.72		0.83	4.62%
194	4	Subsurface	Nickel	8.15E+01	0.01	0.14	0.00	0.15	0.86%
194	4	Subsurface	Silver	1.23E+01	0.01	0.08		0.09	0.51%
194	4	Subsurface	Vanadium	3.07E+01	1.52	14.92	0.00	16.44	91.91%
194	4	Subsurface	**Totals**		**1.90**	**15.98**	**0.01**	**17.89**	
194	4	Subsurface	**Percent**		**10.63%**	**89.31%**	**0.06%**		
194	5	Subsurface	Aluminum	9.38E+03	0.03	0.02	0.00	0.05	0.27%
194	5	Subsurface	Arsenic	9.71E+00	0.11	0.03	0.00	0.15	0.79%
194	5	Subsurface	Beryllium	6.26E-01	0.00	0.01	0.00	0.01	0.06%
194	5	Subsurface	Chromium	5.54E+01	0.00	0.00		0.00	0.03%
194	5	Subsurface	Manganese	1.39E+03	0.03	0.01	0.02	0.07	0.38%
194	5	Subsurface	Mercury	8.69E+00	0.10	0.70		0.80	4.37%
194	5	Subsurface	Nickel	7.56E+01	0.01	0.13	0.00	0.14	0.77%
194	5	Subsurface	Silver	1.29E+01	0.01	0.09		0.10	0.53%
194	5	Subsurface	Vanadium	3.19E+01	1.58	15.51	0.00	17.09	92.79%
194	5	Subsurface	**Totals**		**1.89**	**16.51**	**0.03**	**18.42**	

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Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	5	Subsurface	**Percent**		**10.25%**	**89.61%**	**0.14%**		
194	6	Subsurface	Manganese	1.37E+03	0.03	0.01	0.02	0.07	25.33%
194	6	Subsurface	Nickel	6.98E+01	0.01	0.12	0.00	0.13	47.75%
194	6	Subsurface	Silver	9.89E+00	0.01	0.07		0.07	26.92%
194	6	Subsurface	**Totals**		**0.05**	**0.20**	**0.02**	**0.28**	
194	6	Subsurface	**Percent**		**19.26%**	**72.38%**	**8.36%**		
194	7	Subsurface	Arsenic	1.02E+01	0.12	0.03	0.00	0.15	35.11%
194	7	Subsurface	Chromium	5.32E+01	0.00	0.00		0.00	1.09%
194	7	Subsurface	Manganese	7.86E+02	0.02	0.01	0.01	0.04	9.14%
194	7	Subsurface	Nickel	7.71E+01	0.01	0.13	0.00	0.15	33.23%
194	7	Subsurface	Silver	1.25E+01	0.01	0.09		0.09	21.43%
194	7	Subsurface	**Totals**		**0.16**	**0.26**	**0.01**	**0.44**	
194	7	Subsurface	**Percent**		**36.58%**	**60.20%**	**3.22%**		
194	8	Subsurface	Antimony	5.58E-01	0.00	0.02		0.02	3.44%
194	8	Subsurface	Arsenic	1.09E+01	0.13	0.04	0.00	0.16	27.17%
194	8	Subsurface	Chromium	6.09E+01	0.00	0.01		0.01	0.91%
194	8	Subsurface	Cobalt	1.33E+01	0.15	0.08	0.00	0.23	38.42%
194	8	Subsurface	Manganese	1.33E+03	0.03	0.01	0.02	0.07	11.25%
194	8	Subsurface	Nickel	6.01E+01	0.01	0.10	0.00	0.11	18.81%
194	8	Subsurface	**Totals**		**0.33**	**0.25**	**0.02**	**0.60**	
194	8	Subsurface	**Percent**		**54.57%**	**41.33%**	**4.10%**		
194	9	Subsurface	Arsenic	9.77E+00	0.11	0.03	0.00	0.15	39.47%
194	9	Subsurface	Chromium	4.48E+01	0.00	0.00		0.00	1.08%
194	9	Subsurface	Manganese	5.54E+02	0.01	0.01	0.01	0.03	7.57%
194	9	Subsurface	Nickel	5.98E+01	0.01	0.10	0.00	0.11	30.27%
194	9	Subsurface	Silver	1.07E+01	0.01	0.07		0.08	21.61%
194	9	Subsurface	**Totals**		**0.14**	**0.22**	**0.01**	**0.37**	
194	9	Subsurface	**Percent**		**38.92%**	**58.37%**	**2.72%**		
194	10	Subsurface	Arsenic	1.10E+01	0.13	0.04	0.00	0.17	15.21%
194	10	Subsurface	Chromium	5.00E+01	0.00	0.00		0.00	0.41%
194	10	Subsurface	Mercury	8.07E+00	0.09	0.65		0.75	68.57%
194	10	Subsurface	Nickel	7.60E+01	0.01	0.13	0.00	0.14	13.14%
194	10	Subsurface	Thallium	4.50E-01	0.02	0.01		0.03	2.67%
194	10	Subsurface	**Totals**		**0.25**	**0.83**	**0.00**	**1.09**	
194	10	Subsurface	**Percent**		**23.31%**	**76.57%**	**0.12%**		
194	11	Subsurface	Arsenic	1.08E+01	0.12	0.04	0.00	0.16	13.16%
194	11	Subsurface	Chromium	5.66E+01	0.00	0.00		0.01	0.41%
194	11	Subsurface	Mercury	8.09E+00	0.09	0.66		0.75	60.94%
194	11	Subsurface	Nickel	1.01E+02	0.02	0.17	0.00	0.19	15.43%
194	11	Subsurface	Silver	1.33E+01	0.01	0.09		0.10	8.11%
194	11	Subsurface	Thallium	3.70E-01	0.02	0.01		0.02	1.95%
194	11	Subsurface	**Totals**		**0.26**	**0.97**	**0.00**	**1.23**	
194	11	Subsurface	**Percent**		**21.25%**	**78.62%**	**0.12%**		
194	12	Subsurface	Arsenic	9.18E+00	0.11	0.03	0.00	0.14	31.09%
194	12	Subsurface	Chromium	6.34E+01	0.00	0.01		0.01	1.28%
194	12	Subsurface	Manganese	7.31E+02	0.02	0.01	0.01	0.04	8.37%
194	12	Subsurface	Nickel	7.86E+01	0.01	0.13	0.00	0.15	33.34%
194	12	Subsurface	Silver	1.54E+01	0.01	0.10		0.12	25.92%
194	12	Subsurface	**Totals**		**0.15**	**0.28**	**0.01**	**0.44**	
194	12	Subsurface	**Percent**		**33.53%**	**63.51%**	**2.96%**		
194	13	Subsurface	Arsenic	9.90E+00	0.11	0.03	0.00	0.15	47.50%
194	13	Subsurface	Chromium	6.25E+01	0.00	0.01		0.01	1.78%
194	13	Subsurface	Manganese	6.05E+02	0.02	0.01	0.01	0.03	9.82%
194	13	Subsurface	Nickel	6.80E+01	0.01	0.12	0.00	0.13	40.89%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	13	Subsurface	**Totals**		**0.14**	**0.16**	**0.01**	**0.31**	
194	13	Subsurface	**Percent**		**45.19%**	**51.29%**	**3.52%**		
194	14	Subsurface	Aluminum	1.26E+04	0.04	0.02	0.00	0.07	0.34%
194	14	Subsurface	Arsenic	1.09E+01	0.13	0.04	0.00	0.16	0.81%
194	14	Subsurface	Chromium	6.09E+01	0.00	0.01		0.01	0.03%
194	14	Subsurface	Manganese	7.02E+02	0.02	0.01	0.01	0.04	0.18%
194	14	Subsurface	Mercury	8.94E+00	0.10	0.72		0.83	4.13%
194	14	Subsurface	Nickel	7.09E+01	0.01	0.12	0.00	0.13	0.67%
194	14	Subsurface	Vanadium	3.51E+01	1.74	17.08	0.00	18.82	93.85%
194	14	Subsurface	**Totals**		**2.05**	**17.99**	**0.02**	**20.06**	
194	14	Subsurface	**Percent**		**10.21%**	**89.72%**	**0.08%**		
194	15	Subsurface	Arsenic	8.95E+00	0.10	0.03	0.00	0.13	32.91%
194	15	Subsurface	Chromium	6.06E+01	0.00	0.01		0.01	1.33%
194	15	Subsurface	Manganese	6.10E+02	0.02	0.01	0.01	0.03	7.59%
194	15	Subsurface	Nickel	7.98E+01	0.01	0.14	0.00	0.15	36.75%
194	15	Subsurface	Silver	1.17E+01	0.01	0.08		0.09	21.42%
194	15	Subsurface	**Totals**		**0.14**	**0.26**	**0.01**	**0.41**	
194	15	Subsurface	**Percent**		**34.46%**	**62.81%**	**2.73%**		
194	16	Subsurface	Antimony	5.08E-01	0.00	0.01		0.02	0.10%
194	16	Subsurface	Arsenic	1.09E+01	0.13	0.04	0.00	0.16	0.92%
194	16	Subsurface	Beryllium	6.46E-01	0.00	0.01	0.00	0.01	0.07%
194	16	Subsurface	Chromium	5.32E+01	0.00	0.00		0.00	0.03%
194	16	Subsurface	Manganese	1.72E+03	0.04	0.02	0.03	0.09	0.49%
194	16	Subsurface	Nickel	8.59E+01	0.01	0.15	0.00	0.16	0.90%
194	16	Subsurface	Silver	1.23E+01	0.01	0.08		0.09	0.52%
194	16	Subsurface	Thallium	3.81E-01	0.02	0.01		0.02	0.14%
194	16	Subsurface	Vanadium	3.24E+01	1.61	15.76	0.00	17.37	96.84%
194	16	Subsurface	**Totals**		**1.82**	**16.08**	**0.03**	**17.93**	
194	16	Subsurface	**Percent**		**10.17%**	**89.66%**	**0.17%**		
194	17	Subsurface	Arsenic	1.12E+01	0.13	0.04	0.00	0.17	54.54%
194	17	Subsurface	Cadmium	8.52E-01	0.00	0.00	0.00	0.00	1.36%
194	17	Subsurface	Chromium	5.45E+01	0.00	0.00		0.00	1.59%
194	17	Subsurface	Nickel	6.94E+01	0.01	0.12	0.00	0.13	42.50%
194	17	Subsurface	**Totals**		**0.14**	**0.16**	**0.00**	**0.31**	
194	17	Subsurface	**Percent**		**46.93%**	**52.64%**	**0.43%**		
194	18	Subsurface	Aluminum	1.67E+04	0.06	0.03	0.00	0.09	0.41%
194	18	Subsurface	Antimony	5.94E-01	0.01	0.02		0.02	0.10%
194	18	Subsurface	Arsenic	1.19E+01	0.14	0.04	0.00	0.18	0.83%
194	18	Subsurface	Beryllium	7.21E-01	0.00	0.01	0.00	0.01	0.06%
194	18	Subsurface	Chromium	6.85E+01	0.00	0.01		0.01	0.03%
194	18	Subsurface	Iron	2.10E+04	0.10	0.05		0.16	0.72%
194	18	Subsurface	Manganese	7.72E+02	0.02	0.01	0.01	0.04	0.18%
194	18	Subsurface	Nickel	9.80E+01	0.02	0.17	0.00	0.18	0.85%
194	18	Subsurface	Thallium	3.04E-01	0.01	0.01		0.02	0.09%
194	18	Subsurface	Vanadium	3.90E+01	1.94	18.98	0.00	20.92	96.72%
194	18	Subsurface	**Totals**		**2.29**	**19.32**	**0.02**	**21.63**	
194	18	Subsurface	**Percent**		**10.61%**	**89.31%**	**0.08%**		
194	19	Subsurface	Arsenic	9.96E+00	0.12	0.03	0.00	0.15	42.36%
194	19	Subsurface	Chromium	4.84E+01	0.00	0.00		0.00	1.23%
194	19	Subsurface	Nickel	6.83E+01	0.01	0.12	0.00	0.13	36.38%
194	19	Subsurface	Silver	9.44E+00	0.01	0.06		0.07	20.03%
194	19	Subsurface	**Totals**		**0.13**	**0.22**	**0.00**	**0.35**	
194	19	Subsurface	**Percent**		**37.87%**	**61.80%**	**0.33%**		
194	20	Subsurface	Arsenic	1.14E+01	0.13	0.04	0.00	0.17	0.90%

SWMU = solid waste management unit
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Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	20	Subsurface	Barium	2.35E+02	0.00	0.03	0.00	0.03	0.17%
194	20	Subsurface	Beryllium	8.66E-01	0.00	0.01	0.00	0.02	0.09%
194	20	Subsurface	Chromium	7.11E+01	0.00	0.01		0.01	0.03%
194	20	Subsurface	Cobalt	1.48E+01	0.17	0.08	0.00	0.26	1.35%
194	20	Subsurface	Manganese	2.33E+03	0.06	0.02	0.04	0.12	0.62%
194	20	Subsurface	Mercury	7.28E+00	0.08	0.59		0.67	3.53%
194	20	Subsurface	Nickel	6.57E+01	0.01	0.11	0.00	0.12	0.65%
194	20	Subsurface	Silver	1.08E+01	0.01	0.07		0.08	0.42%
194	20	Subsurface	Vanadium	3.29E+01	1.63	15.98	0.00	17.62	92.24%
194	20	Subsurface	**Totals**		**2.10**	**16.96**	**0.04**	**19.10**	
194	20	Subsurface	**Percent**		**11.01%**	**88.77%**	**0.22%**		
194	21	Subsurface	Antimony	9.30E-01	0.01	0.03		0.03	0.07%
194	21	Subsurface	Arsenic	3.52E+01	0.41	0.12	0.00	0.53	1.03%
194	21	Subsurface	Barium	2.96E+03	0.05	0.36	0.00	0.42	0.81%
194	21	Subsurface	Beryllium	1.80E+00	0.00	0.03	0.00	0.03	0.07%
194	21	Subsurface	Chromium	5.51E+01	0.00	0.00		0.00	0.01%
194	21	Subsurface	Cobalt	8.31E+01	0.96	0.47	0.01	1.45	2.81%
194	21	Subsurface	Iron	4.73E+04	0.23	0.11		0.35	0.68%
194	21	Subsurface	Manganese	3.11E+04	0.77	0.30	0.51	1.58	3.07%
194	21	Subsurface	Mercury	6.62E+00	0.08	0.54		0.61	1.19%
194	21	Subsurface	Nickel	7.01E+01	0.01	0.12	0.00	0.13	0.26%
194	21	Subsurface	Thallium	1.40E+00	0.06	0.03		0.09	0.18%
194	21	Subsurface	Vanadium	8.63E+01	4.28	41.96	0.00	46.24	89.84%
194	21	Subsurface	**Totals**		**6.87**	**44.07**	**0.53**	**51.47**	
194	21	Subsurface	**Percent**		**13.36%**	**85.62%**	**1.02%**		
194	22	Subsurface	Aluminum	1.13E+04	0.04	0.02	0.00	0.06	8.41%
194	22	Subsurface	Antimony	5.29E-01	0.00	0.02		0.02	2.73%
194	22	Subsurface	Arsenic	1.15E+01	0.13	0.04	0.00	0.17	24.13%
194	22	Subsurface	Chromium	4.75E+01	0.00	0.00		0.00	0.59%
194	22	Subsurface	Cobalt	1.08E+01	0.12	0.06	0.00	0.19	26.13%
194	22	Subsurface	Manganese	1.06E+03	0.03	0.01	0.02	0.05	7.52%
194	22	Subsurface	Nickel	7.08E+01	0.01	0.12	0.00	0.13	18.60%
194	22	Subsurface	Silver	1.14E+01	0.01	0.08		0.09	11.88%
194	22	Subsurface	**Totals**		**0.35**	**0.35**	**0.02**	**0.72**	
194	22	Subsurface	**Percent**		**48.61%**	**48.34%**	**3.05%**		
194	23	Subsurface	Arsenic	1.12E+01	0.13	0.04	0.00	0.17	12.80%
194	23	Subsurface	Cadmium	6.58E+00	0.02	0.01	0.00	0.03	2.45%
194	23	Subsurface	Chromium	5.90E+01	0.00	0.01		0.01	0.40%
194	23	Subsurface	Iron	1.94E+04	0.10	0.05		0.14	10.85%
194	23	Subsurface	Manganese	7.24E+02	0.02	0.01	0.01	0.04	2.79%
194	23	Subsurface	Mercury	7.75E+00	0.09	0.63		0.72	54.36%
194	23	Subsurface	Nickel	7.33E+01	0.01	0.12	0.00	0.14	10.47%
194	23	Subsurface	Silver	1.04E+01	0.01	0.07		0.08	5.88%
194	23	Subsurface	**Totals**		**0.38**	**0.93**	**0.01**	**1.32**	
194	23	Subsurface	**Percent**		**28.55%**	**70.41%**	**1.03%**		
194	24	Subsurface	Arsenic	1.19E+01	0.14	0.04	0.00	0.18	14.86%
194	24	Subsurface	Beryllium	6.50E-01	0.00	0.01	0.00	0.01	1.01%
194	24	Subsurface	Chromium	4.67E+01	0.00	0.00		0.00	0.35%
194	24	Subsurface	Iron	2.31E+04	0.11	0.06		0.17	14.15%
194	24	Subsurface	Manganese	6.03E+02	0.01	0.01	0.01	0.03	2.54%
194	24	Subsurface	Mercury	7.03E+00	0.08	0.57		0.65	53.95%
194	24	Subsurface	Nickel	8.41E+01	0.01	0.14	0.00	0.16	13.14%
194	24	Subsurface	**Totals**		**0.37**	**0.83**	**0.01**	**1.21**	
194	24	Subsurface	**Percent**		**30.25%**	**68.82%**	**0.93%**		

SWMU = solid waste management unit
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Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	25	Subsurface	Aluminum	1.45E+04	0.05	0.02	0.00	0.08	16.56%
194	25	Subsurface	Arsenic	1.05E+01	0.12	0.04	0.00	0.16	33.81%
194	25	Subsurface	Barium	3.00E+02	0.01	0.04	0.00	0.04	9.02%
194	25	Subsurface	Beryllium	8.30E-01	0.00	0.01	0.00	0.02	3.34%
194	25	Subsurface	Chromium	5.23E+01	0.00	0.00		0.00	1.00%
194	25	Subsurface	Manganese	9.90E+02	0.02	0.01	0.02	0.05	10.77%
194	25	Subsurface	Nickel	6.33E+01	0.01	0.11	0.00	0.12	25.51%
194	25	Subsurface	**Totals**		**0.21**	**0.23**	**0.02**	**0.47**	
194	25	Subsurface	**Percent**		**45.87%**	**49.81%**	**4.32%**		
194	26	Subsurface	Aluminum	1.21E+04	0.04	0.02	0.00	0.06	0.30%
194	26	Subsurface	Arsenic	9.09E+00	0.11	0.03	0.00	0.14	0.65%
194	26	Subsurface	Beryllium	7.31E-01	0.00	0.01	0.00	0.01	0.06%
194	26	Subsurface	Chromium	4.81E+01	0.00	0.00		0.00	0.02%
194	26	Subsurface	Cobalt	1.34E+01	0.16	0.08	0.00	0.23	1.10%
194	26	Subsurface	Manganese	6.25E+02	0.02	0.01	0.01	0.03	0.15%
194	26	Subsurface	Silver	1.03E+01	0.01	0.07		0.08	0.36%
194	26	Subsurface	Thallium	3.12E-01	0.01	0.01		0.02	0.10%
194	26	Subsurface	Vanadium	3.84E+01	1.91	18.67	0.00	20.58	97.25%
194	26	Subsurface	**Totals**		**2.25**	**18.90**	**0.01**	**21.16**	
194	26	Subsurface	**Percent**		**10.62%**	**89.31%**	**0.07%**		
194	27	Subsurface	Antimony	4.96E-01	0.00	0.01		0.02	4.79%
194	27	Subsurface	Arsenic	1.07E+01	0.12	0.04	0.00	0.16	41.73%
194	27	Subsurface	Chromium	5.16E+01	0.00	0.00		0.00	1.20%
194	27	Subsurface	Nickel	6.55E+01	0.01	0.11	0.00	0.12	32.15%
194	27	Subsurface	Silver	1.03E+01	0.01	0.07		0.08	20.13%
194	27	Subsurface	**Totals**		**0.15**	**0.24**	**0.00**	**0.38**	
194	27	Subsurface	**Percent**		**38.12%**	**61.57%**	**0.31%**		
194	28	Subsurface	Arsenic	1.13E+01	0.13	0.04	0.00	0.17	0.80%
194	28	Subsurface	Beryllium	7.41E-01	0.00	0.01	0.00	0.01	0.07%
194	28	Subsurface	Chromium	6.36E+01	0.00	0.01		0.01	0.03%
194	28	Subsurface	Manganese	1.21E+03	0.03	0.01	0.02	0.06	0.29%
194	28	Subsurface	Nickel	6.89E+01	0.01	0.12	0.00	0.13	0.61%
194	28	Subsurface	Silver	1.52E+01	0.01	0.10		0.11	0.54%
194	28	Subsurface	Vanadium	3.85E+01	1.91	18.72	0.00	20.63	97.66%
194	28	Subsurface	**Totals**		**2.10**	**19.01**	**0.02**	**21.12**	
194	28	Subsurface	**Percent**		**9.92%**	**89.98%**	**0.10%**		
194	29	Subsurface	Aluminum	1.32E+04	0.05	0.02	0.00	0.07	0.31%
194	29	Subsurface	Antimony	7.10E-01	0.01	0.02		0.03	0.11%
194	29	Subsurface	Arsenic	1.43E+01	0.17	0.05	0.00	0.21	0.93%
194	29	Subsurface	Barium	1.88E+02	0.00	0.02	0.00	0.03	0.11%
194	29	Subsurface	Beryllium	8.20E-01	0.00	0.01	0.00	0.02	0.07%
194	29	Subsurface	Chromium	5.76E+01	0.00	0.01		0.01	0.02%
194	29	Subsurface	Cobalt	1.41E+01	0.16	0.08	0.00	0.25	1.06%
194	29	Subsurface	Manganese	2.65E+03	0.07	0.03	0.04	0.13	0.58%
194	29	Subsurface	Nickel	8.47E+01	0.01	0.14	0.00	0.16	0.69%
194	29	Subsurface	Silver	9.77E+00	0.01	0.07		0.07	0.32%
194	29	Subsurface	Thallium	4.40E-01	0.02	0.01		0.03	0.12%
194	29	Subsurface	Vanadium	4.12E+01	2.05	20.03	0.00	22.08	95.67%
194	29	Subsurface	**Totals**		**2.54**	**20.49**	**0.05**	**23.08**	
194	29	Subsurface	**Percent**		**11.00%**	**88.79%**	**0.21%**		
194	30	Subsurface	Arsenic	9.44E+00	0.11	0.03	0.00	0.14	0.88%
194	30	Subsurface	Beryllium	3.16E+00	0.01	0.05	0.00	0.06	0.37%
194	30	Subsurface	Chromium	5.70E+01	0.00	0.00		0.01	0.03%
194	30	Subsurface	Manganese	6.15E+02	0.02	0.01	0.01	0.03	0.19%

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Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	30	Subsurface	Mercury	8.80E+00	0.10	0.71		0.81	5.03%
194	30	Subsurface	Nickel	6.99E+01	0.01	0.12	0.00	0.13	0.81%
194	30	Subsurface	Silver	1.04E+01	0.01	0.07		0.08	0.48%
194	30	Subsurface	Vanadium	2.79E+01	1.38	13.55	0.00	14.93	92.21%
194	30	Subsurface	**Totals**		**1.64**	**14.55**	**0.01**	**16.20**	
194	30	Subsurface	**Percent**		**10.10%**	**89.83%**	**0.07%**		
194	31	Subsurface	**Totals**					**0.00**	
194	31	Subsurface	**Percent**						
195	1	Subsurface	Arsenic	1.17E+01	0.14	0.04	0.00	0.18	41.80%
195	1	Subsurface	Chromium	5.85E+01	0.00	0.01		0.01	1.24%
195	1	Subsurface	Nickel	8.00E+01	0.01	0.14	0.00	0.15	35.72%
195	1	Subsurface	Silver	9.37E+00	0.01	0.06		0.07	16.65%
195	1	Subsurface	Thallium	2.99E-01	0.01	0.01		0.02	4.58%
195	1	Subsurface	**Totals**		**0.17**	**0.25**	**0.00**	**0.42**	
195	1	Subsurface	**Percent**		**40.14%**	**59.54%**	**0.32%**		
195	2	Subsurface	Chromium	5.63E+01	0.00	0.00		0.01	6.62%
195	2	Subsurface	Silver	9.48E+00	0.01	0.06		0.07	93.38%
195	2	Subsurface	**Totals**		**0.01**	**0.07**		**0.08**	
195	2	Subsurface	**Percent**		**8.82%**	**91.18%**			
195	3	Subsurface	Arsenic	1.09E+01	0.13	0.04	0.00	0.16	43.60%
195	3	Subsurface	Chromium	5.29E+01	0.00	0.00		0.00	1.27%
195	3	Subsurface	Manganese	4.88E+02	0.01	0.00	0.01	0.02	6.63%
195	3	Subsurface	Nickel	9.63E+01	0.02	0.16	0.00	0.18	48.50%
195	3	Subsurface	**Totals**		**0.15**	**0.21**	**0.01**	**0.37**	
195	3	Subsurface	**Percent**		**41.32%**	**56.16%**	**2.52%**		
195	4	Subsurface	Arsenic	1.01E+01	0.12	0.03	0.00	0.15	37.73%
195	4	Subsurface	Chromium	5.08E+01	0.00	0.00		0.00	1.13%
195	4	Subsurface	Nickel	8.37E+01	0.01	0.14	0.00	0.16	39.25%
195	4	Subsurface	Silver	8.80E+00	0.01	0.06		0.07	16.43%
195	4	Subsurface	Thallium	3.39E-01	0.01	0.01		0.02	5.46%
195	4	Subsurface	**Totals**		**0.15**	**0.25**	**0.00**	**0.40**	
195	4	Subsurface	**Percent**		**37.90%**	**61.78%**	**0.33%**		
195	5	Subsurface	Arsenic	8.80E+00	0.10	0.03	0.00	0.13	34.03%
195	5	Subsurface	Chromium	5.74E+01	0.00	0.01		0.01	1.32%
195	5	Subsurface	Nickel	8.11E+01	0.01	0.14	0.00	0.15	39.28%
195	5	Subsurface	Silver	8.41E+00	0.01	0.06		0.06	16.22%
195	5	Subsurface	Thallium	5.50E-01	0.02	0.01		0.04	9.15%
195	5	Subsurface	**Totals**		**0.15**	**0.24**	**0.00**	**0.39**	
195	5	Subsurface	**Percent**		**37.51%**	**62.18%**	**0.31%**		
195	6	Subsurface	Arsenic	1.05E+01	0.12	0.04	0.00	0.16	37.33%
195	6	Subsurface	Chromium	5.52E+01	0.00	0.00		0.00	1.17%
195	6	Subsurface	Nickel	9.81E+01	0.02	0.17	0.00	0.18	43.73%
195	6	Subsurface	Silver	1.00E+01	0.01	0.07		0.08	17.77%
195	6	Subsurface	**Totals**		**0.15**	**0.28**	**0.00**	**0.42**	
195	6	Subsurface	**Percent**		**34.46%**	**65.19%**	**0.35%**		
195	7	Subsurface	Arsenic	8.49E+00	0.10	0.03	0.00	0.13	32.79%
195	7	Subsurface	Chromium	4.74E+01	0.00	0.00		0.00	1.09%
195	7	Subsurface	Cobalt	1.13E+01	0.13	0.06	0.00	0.20	50.60%
195	7	Subsurface	Silver	8.06E+00	0.01	0.05		0.06	15.52%
195	7	Subsurface	**Totals**		**0.24**	**0.15**	**0.00**	**0.39**	
195	7	Subsurface	**Percent**		**60.42%**	**39.06%**	**0.52%**		
195	8	Subsurface	Arsenic	1.12E+01	0.13	0.04	0.00	0.17	0.82%
195	8	Subsurface	Beryllium	6.78E-01	0.00	0.01	0.00	0.01	0.06%
195	8	Subsurface	Chromium	5.23E+01	0.00	0.00		0.00	0.02%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
195	8	Subsurface	Cobalt	1.41E+01	0.16	0.08	0.00	0.24	1.19%
195	8	Subsurface	Manganese	6.90E+02	0.02	0.01	0.01	0.04	0.17%
195	8	Subsurface	Nickel	8.93E+01	0.02	0.15	0.00	0.17	0.82%
195	8	Subsurface	Silver	8.51E+00	0.01	0.06		0.06	0.31%
195	8	Subsurface	Vanadium	3.70E+01	1.84	17.97	0.00	19.81	96.60%
195	8	Subsurface	**Totals**		**2.17**	**18.32**	**0.01**	**20.51**	
195	8	Subsurface	**Percent**		**10.57%**	**89.36%**	**0.07%**		
195	9	Subsurface	Arsenic	1.03E+01	0.12	0.04	0.00	0.16	38.59%
195	9	Subsurface	Chromium	6.08E+01	0.00	0.01		0.01	1.35%
195	9	Subsurface	Nickel	9.12E+01	0.02	0.16	0.00	0.17	42.67%
195	9	Subsurface	Silver	9.33E+00	0.01	0.06		0.07	17.38%
195	9	Subsurface	**Totals**		**0.14**	**0.26**	**0.00**	**0.40**	
195	9	Subsurface	**Percent**		**35.30%**	**64.35%**	**0.35%**		
195	10	Subsurface	Arsenic	9.83E+00	0.11	0.03	0.00	0.15	35.23%
195	10	Subsurface	Chromium	4.29E+01	0.00	0.00		0.00	0.91%
195	10	Subsurface	Manganese	3.79E+02	0.01	0.00	0.01	0.02	4.59%
195	10	Subsurface	Nickel	7.98E+01	0.01	0.14	0.00	0.15	35.84%
195	10	Subsurface	Silver	1.31E+01	0.01	0.09		0.10	23.43%
195	10	Subsurface	**Totals**		**0.15**	**0.27**	**0.01**	**0.42**	
195	10	Subsurface	**Percent**		**34.87%**	**63.36%**	**1.77%**		
195	11	Subsurface	Aluminum	1.93E+04	0.07	0.03	0.00	0.10	0.33%
195	11	Subsurface	Arsenic	1.30E+01	0.15	0.04	0.00	0.19	0.63%
195	11	Subsurface	Barium	3.18E+02	0.01	0.04	0.00	0.04	0.14%
195	11	Subsurface	Chromium	5.67E+01	0.00	0.00		0.01	0.02%
195	11	Subsurface	Cobalt	1.87E+01	0.22	0.11	0.00	0.32	1.05%
195	11	Subsurface	Iron	2.10E+04	0.10	0.05		0.16	0.50%
195	11	Subsurface	Manganese	5.25E+02	0.01	0.01	0.01	0.03	0.09%
195	11	Subsurface	Nickel	8.37E+01	0.01	0.14	0.00	0.16	0.51%
195	11	Subsurface	Silver	8.26E+00	0.01	0.06		0.06	0.20%
195	11	Subsurface	Thallium	4.46E-01	0.02	0.01		0.03	0.09%
195	11	Subsurface	Vanadium	5.55E+01	2.75	26.97	0.00	29.72	96.42%
195	11	Subsurface	**Totals**		**3.35**	**27.46**	**0.02**	**30.82**	
195	11	Subsurface	**Percent**		**10.87%**	**89.08%**	**0.05%**		
195	12	Subsurface	Arsenic	1.08E+01	0.12	0.04	0.00	0.16	0.80%
195	12	Subsurface	Beryllium	6.22E-01	0.00	0.01	0.00	0.01	0.06%
195	12	Subsurface	Chromium	6.45E+01	0.00	0.01		0.01	0.03%
195	12	Subsurface	Manganese	4.77E+02	0.01	0.00	0.01	0.02	0.12%
195	12	Subsurface	Nickel	9.19E+01	0.02	0.16	0.00	0.17	0.86%
195	12	Subsurface	Vanadium	3.68E+01	1.83	17.89	0.00	19.71	98.13%
195	12	Subsurface	**Totals**		**1.98**	**18.10**	**0.01**	**20.09**	
195	12	Subsurface	**Percent**		**9.86%**	**90.10%**	**0.05%**		
195	13	Subsurface	Arsenic	9.12E+00	0.11	0.03	0.00	0.14	37.65%
195	13	Subsurface	Chromium	5.23E+01	0.00	0.00		0.00	1.28%
195	13	Subsurface	Nickel	8.34E+01	0.01	0.14	0.00	0.16	43.14%
195	13	Subsurface	Silver	8.71E+00	0.01	0.06		0.07	17.93%
195	13	Subsurface	**Totals**		**0.13**	**0.24**	**0.00**	**0.36**	
195	13	Subsurface	**Percent**		**34.67%**	**64.99%**	**0.34%**		
195	14	Subsurface	Arsenic	1.02E+01	0.12	0.03	0.00	0.15	15.66%
195	14	Subsurface	Chromium	5.94E+01	0.00	0.01		0.01	0.54%
195	14	Subsurface	Mercury	6.49E+00	0.08	0.53		0.60	61.24%
195	14	Subsurface	Nickel	8.22E+01	0.01	0.14	0.00	0.15	15.78%
195	14	Subsurface	Silver	8.87E+00	0.01	0.06		0.07	6.78%
195	14	Subsurface	**Totals**		**0.21**	**0.77**	**0.00**	**0.98**	
195	14	Subsurface	**Percent**		**21.82%**	**78.05%**	**0.13%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
195	15	Subsurface	Arsenic	9.15E+00	0.11	0.03	0.00	0.14	96.64%
195	15	Subsurface	Chromium	5.34E+01	0.00	0.00		0.00	3.36%
195	15	Subsurface	**Totals**		**0.11**	**0.04**	**0.00**	**0.14**	
195	15	Subsurface	**Percent**		**74.51%**	**25.14%**	**0.35%**		
195	16	Subsurface	Chromium	5.22E+01	0.00	0.00		0.00	0.48%
195	16	Subsurface	Manganese	3.87E+02	0.01	0.00	0.01	0.02	2.04%
195	16	Subsurface	Mercury	8.43E+00	0.10	0.68		0.78	80.75%
195	16	Subsurface	Nickel	8.59E+01	0.01	0.15	0.00	0.16	16.73%
195	16	Subsurface	**Totals**		**0.12**	**0.84**	**0.01**	**0.97**	
195	16	Subsurface	**Percent**		**12.65%**	**86.62%**	**0.73%**		
195	17	Subsurface	Arsenic	9.36E+00	0.11	0.03	0.00	0.14	12.83%
195	17	Subsurface	Chromium	6.77E+01	0.00	0.01		0.01	0.55%
195	17	Subsurface	Manganese	5.02E+02	0.01	0.00	0.01	0.03	2.33%
195	17	Subsurface	Mercury	7.24E+00	0.08	0.59		0.67	61.10%
195	17	Subsurface	Nickel	7.09E+01	0.01	0.12	0.00	0.13	12.17%
195	17	Subsurface	Silver	1.20E+01	0.01	0.08		0.09	8.18%
195	17	Subsurface	Thallium	4.82E-01	0.02	0.01		0.03	2.84%
195	17	Subsurface	**Totals**		**0.25**	**0.84**	**0.01**	**1.10**	
195	17	Subsurface	**Percent**		**22.46%**	**76.69%**	**0.85%**		
196	1	Subsurface	Aluminum	1.79E+04	0.06	0.03	0.00	0.10	0.23%
196	1	Subsurface	Antimony	1.21E+02	1.05	3.43		4.48	10.60%
196	1	Subsurface	Arsenic	1.05E+01	0.12	0.04	0.00	0.16	0.37%
196	1	Subsurface	Barium	3.89E+02	0.01	0.05	0.00	0.05	0.13%
196	1	Subsurface	Beryllium	1.13E+02	0.20	1.92	0.00	2.12	5.02%
196	1	Subsurface	Cadmium	1.16E+02	0.40	0.16	0.01	0.57	1.35%
196	1	Subsurface	Chromium	1.12E+02	0.00	0.01		0.01	0.02%
196	1	Subsurface	Cobalt	1.12E+02	1.30	0.64	0.02	1.95	4.61%
196	1	Subsurface	Iron	2.96E+04	0.15	0.07		0.22	0.52%
196	1	Subsurface	Manganese	1.98E+03	0.05	0.02	0.03	0.10	0.24%
196	1	Subsurface	Nickel	5.87E+02	0.10	1.00	0.01	1.11	2.62%
196	1	Subsurface	Silver	6.54E+01	0.05	0.45		0.49	1.16%
196	1	Subsurface	Thallium	1.14E+02	4.95	2.42		7.38	17.45%
196	1	Subsurface	Uranium	2.33E+01	0.03	0.01	0.00	0.04	0.10%
196	1	Subsurface	Vanadium	4.38E+01	2.17	21.29	0.00	23.47	55.51%
196	1	Subsurface	Zinc	1.65E+03	0.02	0.01		0.03	0.07%
196	1	Subsurface	**Totals**		**10.66**	**31.55**	**0.07**	**42.27**	
196	1	Subsurface	**Percent**		**25.21%**	**74.62%**	**0.17%**		
196	2	Subsurface	Aluminum	1.69E+04	0.06	0.03	0.00	0.09	3.22%
196	2	Subsurface	Antimony	6.22E+01	0.54	1.76		2.30	82.23%
196	2	Subsurface	Arsenic	9.40E+00	0.11	0.03	0.00	0.14	5.05%
196	2	Subsurface	Barium	2.02E+02	0.00	0.02	0.00	0.03	1.01%
196	2	Subsurface	Cadmium	4.42E+00	0.02	0.01	0.00	0.02	0.78%
196	2	Subsurface	Nickel	8.01E+01	0.01	0.14	0.00	0.15	5.39%
196	2	Subsurface	Selenium	6.29E+01	0.04	0.02	0.00	0.07	2.32%
196	2	Subsurface	**Totals**		**0.78**	**2.01**	**0.00**	**2.80**	
196	2	Subsurface	**Percent**		**28.00%**	**71.83%**	**0.17%**		
200	1	Subsurface	Antimony	3.82E-01	0.00	0.01		0.01	1.19%
200	1	Subsurface	Arsenic	9.73E+00	0.11	0.03	0.00	0.15	12.35%
200	1	Subsurface	Chromium	6.19E+01	0.00	0.01		0.01	0.47%
200	1	Subsurface	Manganese	4.60E+02	0.01	0.00	0.01	0.02	1.97%
200	1	Subsurface	Mercury	6.93E+00	0.08	0.56		0.64	54.16%
200	1	Subsurface	Nickel	1.26E+02	0.02	0.21	0.00	0.24	19.99%
200	1	Subsurface	Silver	9.47E+00	0.01	0.06		0.07	6.00%
200	1	Subsurface	Uranium	2.65E+01	0.03	0.02	0.00	0.05	3.86%

SWMU = solid waste management unit
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EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
200	1	Subsurface	**Totals**		**0.27**	**0.91**	**0.01**	**1.18**	
200	1	Subsurface	**Percent**		**22.53%**	**76.69%**	**0.78%**		
204	1	Subsurface	Aluminum	1.48E+04	0.05	0.03	0.00	0.08	0.19%
204	1	Subsurface	Arsenic	1.04E+01	0.12	0.04	0.00	0.16	0.38%
204	1	Subsurface	Beryllium	1.36E+00	0.00	0.02	0.00	0.03	0.06%
204	1	Subsurface	Cadmium	2.73E+00	0.01	0.00	0.00	0.01	0.03%
204	1	Subsurface	Chromium	7.40E+01	0.00	0.01		0.01	0.02%
204	1	Subsurface	Iron	4.19E+04	0.21	0.10		0.31	0.75%
204	1	Subsurface	Vanadium	7.55E+01	3.75	36.71	0.00	40.45	98.56%
204	1	Subsurface	**Totals**		**4.14**	**36.90**	**0.00**	**41.05**	
204	1	Subsurface	**Percent**		**10.09%**	**89.90%**	**0.01%**		
204	2	Subsurface	Aluminum	1.37E+04	0.05	0.02	0.00	0.07	100.00%
204	2	Subsurface	**Totals**		**0.05**	**0.02**	**0.00**	**0.07**	
204	2	Subsurface	**Percent**		**65.08%**	**31.86%**	**3.06%**		
204	3	Subsurface	**Totals**					**0.00**	
204	3	Subsurface	**Percent**						
204	4	Subsurface	Antimony	1.72E+01	0.15	0.49		0.64	100.00%
204	4	Subsurface	**Totals**		**0.15**	**0.49**		**0.64**	
204	4	Subsurface	**Percent**		**23.45%**	**76.55%**			
204	18	Subsurface	Uranium	1.60E+01	0.02	0.01	0.00	0.03	100.00%
204	18	Subsurface	**Totals**		**0.02**	**0.01**	**0.00**	**0.03**	
204	18	Subsurface	**Percent**		**67.03%**	**32.82%**	**0.16%**		
204	22	Subsurface	Uranium	3.71E+02	0.43	0.21	0.00	0.64	100.00%
204	22	Subsurface	**Totals**		**0.43**	**0.21**	**0.00**	**0.64**	
204	22	Subsurface	**Percent**		**67.03%**	**32.82%**	**0.16%**		
204	23	Subsurface	Beryllium	1.33E+00	0.00	0.02	0.00	0.02	0.11%
204	23	Subsurface	Chromium	1.75E+02	0.00	0.02		0.02	0.07%
204	23	Subsurface	Trichloroethene	7.30E-02	0.00	0.00	0.00	0.00	0.02%
204	23	Subsurface	Uranium	1.31E+04	15.14	7.41	0.04	22.59	99.80%
204	23	Subsurface	**Totals**		**15.15**	**7.45**	**0.04**	**22.63**	
204	23	Subsurface	**Percent**		**66.91%**	**32.93%**	**0.16%**		
211	1	Subsurface	Arsenic	1.00E+01	0.12	0.03	0.00	0.15	11.46%
211	1	Subsurface	Barium	2.13E+02	0.00	0.03	0.00	0.03	2.28%
211	1	Subsurface	Beryllium	8.50E-01	0.00	0.01	0.00	0.02	1.22%
211	1	Subsurface	Chromium	4.84E+01	0.00	0.00		0.00	0.33%
211	1	Subsurface	Cobalt	4.95E+01	0.57	0.28	0.01	0.86	65.60%
211	1	Subsurface	Nickel	8.87E+01	0.02	0.15	0.00	0.17	12.73%
211	1	Subsurface	Uranium	4.85E+01	0.06	0.03	0.00	0.08	6.39%
211	1	Subsurface	**Totals**		**0.77**	**0.54**	**0.01**	**1.31**	
211	1	Subsurface	**Percent**		**58.37%**	**40.97%**	**0.66%**		
212	1	Subsurface	Antimony	1.40E+00	0.01	0.04		0.05	0.17%
212	1	Subsurface	Arsenic	1.44E+01	0.17	0.05	0.00	0.22	0.71%
212	1	Subsurface	Barium	1.92E+02	0.00	0.02	0.00	0.03	0.09%
212	1	Subsurface	Beryllium	8.90E-01	0.00	0.02	0.00	0.02	0.05%
212	1	Subsurface	Chromium	6.66E+01	0.00	0.01		0.01	0.02%
212	1	Subsurface	Cobalt	1.76E+01	0.20	0.10	0.00	0.31	1.00%
212	1	Subsurface	Iron	4.14E+04	0.21	0.10		0.31	1.00%
212	1	Subsurface	Manganese	1.44E+03	0.04	0.01	0.02	0.07	0.24%
212	1	Subsurface	Mercury	6.94E+00	0.08	0.56		0.64	2.11%
212	1	Subsurface	Nickel	8.69E+01	0.02	0.15	0.00	0.16	0.54%
212	1	Subsurface	Silver	1.55E+01	0.01	0.11		0.12	0.38%
212	1	Subsurface	Uranium	2.30E+01	0.03	0.01	0.00	0.04	0.13%
212	1	Subsurface	Vanadium	5.33E+01	2.65	25.91	0.00	28.56	93.56%
212	1	Subsurface	**Totals**		**3.41**	**27.09**	**0.03**	**30.53**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
212	1	Subsurface	**Percent**		**11.17%**	**88.74%**	**0.09%**		
213	1	Subsurface	Antimony	8.50E-01	0.01	0.02		0.03	7.07%
213	1	Subsurface	Arsenic	9.21E+00	0.11	0.03	0.00	0.14	31.09%
213	1	Subsurface	Chromium	5.47E+01	0.00	0.00		0.00	1.10%
213	1	Subsurface	Manganese	9.06E+02	0.02	0.01	0.01	0.05	10.35%
213	1	Subsurface	Nickel	6.67E+01	0.01	0.11	0.00	0.13	28.22%
213	1	Subsurface	Silver	1.32E+01	0.01	0.09		0.10	22.17%
213	1	Subsurface	**Totals**		**0.16**	**0.27**	**0.02**	**0.45**	
213	1	Subsurface	**Percent**		**35.34%**	**61.09%**	**3.57%**		
213	2	Subsurface	Chromium	6.77E+01	0.00	0.01		0.01	1.64%
213	2	Subsurface	Manganese	2.10E+03	0.05	0.02	0.03	0.11	29.01%
213	2	Subsurface	Nickel	9.10E+01	0.02	0.15	0.00	0.17	46.46%
213	2	Subsurface	Silver	1.13E+01	0.01	0.08		0.08	22.89%
213	2	Subsurface	**Totals**		**0.08**	**0.26**	**0.04**	**0.37**	
213	2	Subsurface	**Percent**		**20.60%**	**69.86%**	**9.54%**		
214	1	Subsurface	Antimony	5.70E-01	0.00	0.02		0.02	10.86%
214	1	Subsurface	Arsenic	1.15E+01	0.13	0.04	0.00	0.17	89.14%
214	1	Subsurface	**Totals**		**0.14**	**0.06**	**0.00**	**0.19**	
214	1	Subsurface	**Percent**		**71.20%**	**28.48%**	**0.32%**		
215	1	Subsurface	Antimony	6.80E-01	0.01	0.02		0.03	3.71%
215	1	Subsurface	Arsenic	1.02E+01	0.12	0.03	0.00	0.15	22.53%
215	1	Subsurface	Chromium	5.73E+01	0.00	0.01		0.01	0.76%
215	1	Subsurface	Iron	3.87E+04	0.19	0.09		0.29	42.17%
215	1	Subsurface	Nickel	7.32E+01	0.01	0.12	0.00	0.14	20.32%
215	1	Subsurface	Silver	9.51E+00	0.01	0.06		0.07	10.51%
215	1	Subsurface	**Totals**		**0.34**	**0.34**	**0.00**	**0.68**	
215	1	Subsurface	**Percent**		**49.40%**	**50.42%**	**0.18%**		
216	1	Subsurface	Arsenic	8.60E+00	0.10	0.03	0.00	0.13	100.00%
216	1	Subsurface	**Totals**		**0.10**	**0.03**	**0.00**	**0.13**	
216	1	Subsurface	**Percent**		**77.01%**	**22.62%**	**0.36%**		
217	1	Subsurface	Arsenic	9.42E+00	0.11	0.03	0.00	0.14	0.81%
217	1	Subsurface	Chromium	6.53E+01	0.00	0.01		0.01	0.03%
217	1	Subsurface	Cobalt	1.64E+01	0.19	0.09	0.00	0.29	1.63%
217	1	Subsurface	Manganese	9.97E+02	0.02	0.01	0.02	0.05	0.29%
217	1	Subsurface	Mercury	7.37E+00	0.09	0.60		0.68	3.90%
217	1	Subsurface	Nickel	8.71E+01	0.02	0.15	0.00	0.16	0.94%
217	1	Subsurface	Silver	1.35E+01	0.01	0.09		0.10	0.58%
217	1	Subsurface	Vanadium	3.00E+01	1.49	14.58	0.00	16.07	91.82%
217	1	Subsurface	**Totals**		**1.92**	**15.56**	**0.02**	**17.51**	
217	1	Subsurface	**Percent**		**10.99%**	**88.90%**	**0.11%**		
217	2	Subsurface	Aluminum	1.02E+04	0.04	0.02	0.00	0.05	0.29%
217	2	Subsurface	Antimony	3.10E+00	0.03	0.09		0.11	0.62%
217	2	Subsurface	Arsenic	9.97E+00	0.12	0.03	0.00	0.15	0.81%
217	2	Subsurface	Beryllium	5.85E-01	0.00	0.01	0.00	0.01	0.06%
217	2	Subsurface	Chromium	6.61E+01	0.00	0.01		0.01	0.03%
217	2	Subsurface	Cobalt	8.29E+01	0.96	0.47	0.01	1.44	7.77%
217	2	Subsurface	Iron	3.04E+04	0.15	0.07		0.23	1.21%
217	2	Subsurface	Manganese	9.50E+02	0.02	0.01	0.02	0.05	0.26%
217	2	Subsurface	Mercury	9.20E+00	0.11	0.75		0.85	4.59%
217	2	Subsurface	Nickel	7.88E+01	0.01	0.13	0.00	0.15	0.80%
217	2	Subsurface	Silver	1.61E+01	0.01	0.11		0.12	0.65%
217	2	Subsurface	Vanadium	2.87E+01	1.42	13.95	0.00	15.38	82.89%
217	2	Subsurface	**Totals**		**2.87**	**15.65**	**0.03**	**18.55**	
217	2	Subsurface	**Percent**		**15.48%**	**84.36%**	**0.16%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
219	1	Subsurface	Nickel	6.71E+01	0.01	0.11	0.00	0.13	100.00%
219	1	Subsurface	**Totals**		**0.01**	**0.11**	**0.00**	**0.13**	
219	1	Subsurface	**Percent**		**9.22%**	**90.30%**	**0.48%**		
221	1	Subsurface	Aluminum	2.36E+04	0.08	0.04	0.00	0.13	0.39%
221	1	Subsurface	Antimony	5.78E-01	0.01	0.02		0.02	0.07%
221	1	Subsurface	Arsenic	1.24E+01	0.14	0.04	0.00	0.19	0.57%
221	1	Subsurface	Barium	8.64E+02	0.02	0.11	0.00	0.12	0.37%
221	1	Subsurface	Beryllium	1.55E+00	0.00	0.03	0.00	0.03	0.09%
221	1	Subsurface	Chromium	6.57E+01	0.00	0.01		0.01	0.02%
221	1	Subsurface	Cobalt	7.22E+01	0.84	0.41	0.01	1.25	3.87%
221	1	Subsurface	Iron	3.86E+04	0.19	0.09		0.29	0.88%
221	1	Subsurface	Manganese	4.39E+03	0.11	0.04	0.07	0.22	0.69%
221	1	Subsurface	Mercury	1.23E+01	0.14	1.00		1.14	3.51%
221	1	Subsurface	Nickel	9.46E+01	0.02	0.16	0.00	0.18	0.55%
221	1	Subsurface	Silver	9.74E+00	0.01	0.07		0.07	0.23%
221	1	Subsurface	Thallium	1.24E+00	0.05	0.03		0.08	0.25%
221	1	Subsurface	Uranium	1.46E+01	0.02	0.01	0.00	0.03	0.08%
221	1	Subsurface	Vanadium	5.36E+01	2.66	26.04	0.00	28.70	88.45%
221	1	Subsurface	**Totals**		**4.28**	**28.08**	**0.09**	**32.45**	
221	1	Subsurface	**Percent**		**13.19%**	**86.54%**	**0.27%**		
222	1	Subsurface	Aluminum	1.11E+04	0.04	0.02	0.00	0.06	12.53%
222	1	Subsurface	Arsenic	1.02E+01	0.12	0.03	0.00	0.15	32.49%
222	1	Subsurface	Chromium	6.48E+01	0.00	0.01		0.01	1.23%
222	1	Subsurface	Manganese	6.33E+02	0.02	0.01	0.01	0.03	6.83%
222	1	Subsurface	Nickel	9.19E+01	0.02	0.16	0.00	0.17	36.74%
222	1	Subsurface	Uranium	2.77E+01	0.03	0.02	0.00	0.05	10.17%
222	1	Subsurface	**Totals**		**0.22**	**0.24**	**0.01**	**0.47**	
222	1	Subsurface	**Percent**		**46.75%**	**50.36%**	**2.89%**		
224	1	Subsurface	Arsenic	1.20E+01	0.14	0.04	0.00	0.18	14.99%
224	1	Subsurface	Chromium	6.50E+01	0.00	0.01		0.01	0.49%
224	1	Subsurface	Manganese	1.94E+03	0.05	0.02	0.03	0.10	8.24%
224	1	Subsurface	Mercury	6.89E+00	0.08	0.56		0.64	53.22%
224	1	Subsurface	Nickel	1.08E+02	0.02	0.18	0.00	0.20	16.90%
224	1	Subsurface	Uranium	4.27E+01	0.05	0.02	0.00	0.07	6.16%
224	1	Subsurface	**Totals**		**0.33**	**0.83**	**0.03**	**1.20**	
224	1	Subsurface	**Percent**		**27.92%**	**69.29%**	**2.79%**		
225	1	Subsurface	Arsenic	8.10E+00	0.09	0.03	0.00	0.12	73.70%
225	1	Subsurface	Manganese	8.55E+02	0.02	0.01	0.01	0.04	26.30%
225	1	Subsurface	**Totals**		**0.12**	**0.04**	**0.01**	**0.17**	
225	1	Subsurface	**Percent**		**69.59%**	**21.70%**	**8.71%**		
226	1	Subsurface	Antimony	6.60E-01	0.01	0.02		0.02	1.01%
226	1	Subsurface	Arsenic	7.94E+00	0.09	0.03	0.00	0.12	4.94%
226	1	Subsurface	Beryllium	5.44E-01	0.00	0.01	0.00	0.01	0.42%
226	1	Subsurface	Chromium	6.39E+01	0.00	0.01		0.01	0.24%
226	1	Subsurface	Cobalt	7.70E+00	0.09	0.04	0.00	0.13	5.54%
226	1	Subsurface	Manganese	1.05E+03	0.03	0.01	0.02	0.05	2.21%
226	1	Subsurface	Mercury	9.74E+00	0.11	0.79		0.90	37.31%
226	1	Subsurface	Nickel	2.18E+02	0.04	0.37	0.00	0.41	17.02%
226	1	Subsurface	Uranium	4.38E+02	0.51	0.25	0.00	0.76	31.32%
226	1	Subsurface	**Totals**		**0.87**	**1.52**	**0.02**	**2.42**	
226	1	Subsurface	**Percent**		**36.08%**	**63.02%**	**0.90%**		
227	1	Subsurface	Arsenic	8.46E+00	0.10	0.03	0.00	0.13	17.53%
227	1	Subsurface	Beryllium	5.50E-01	0.00	0.01	0.00	0.01	1.42%
227	1	Subsurface	Chromium	5.34E+01	0.00	0.00		0.00	0.66%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
227	1	Subsurface	Nickel	1.99E+02	0.03	0.34	0.00	0.38	51.66%
227	1	Subsurface	Thallium	5.10E-01	0.02	0.01		0.03	4.55%
227	1	Subsurface	Uranium	1.02E+02	0.12	0.06	0.00	0.18	24.19%
227	1	Subsurface	**Totals**		**0.27**	**0.45**	**0.00**	**0.73**	
227	1	Subsurface	**Percent**		**37.68%**	**61.97%**	**0.35%**		
227	2	Subsurface	Arsenic	8.34E+00	0.10	0.03	0.00	0.13	0.86%
227	2	Subsurface	Barium	1.35E+02	0.00	0.02	0.00	0.02	0.13%
227	2	Subsurface	Beryllium	5.63E-01	0.00	0.01	0.00	0.01	0.07%
227	2	Subsurface	Chromium	4.55E+01	0.00	0.00		0.00	0.03%
227	2	Subsurface	Cobalt	1.06E+01	0.12	0.06	0.00	0.18	1.26%
227	2	Subsurface	Manganese	7.38E+02	0.02	0.01	0.01	0.04	0.26%
227	2	Subsurface	Mercury	8.32E+00	0.10	0.67		0.77	5.27%
227	2	Subsurface	Nickel	1.23E+02	0.02	0.21	0.00	0.23	1.58%
227	2	Subsurface	Silver	8.52E+00	0.01	0.06		0.06	0.44%
227	2	Subsurface	Uranium	1.51E+01	0.02	0.01	0.00	0.03	0.18%
227	2	Subsurface	Vanadium	2.46E+01	1.22	11.94	0.00	13.17	89.93%
227	2	Subsurface	**Totals**		**1.60**	**13.02**	**0.02**	**14.64**	
227	2	Subsurface	**Percent**		**10.95%**	**88.95%**	**0.11%**		
228	1	Subsurface	Antimony	6.30E-01	0.01	0.02		0.02	1.19%
228	1	Subsurface	Arsenic	2.79E+01	0.32	0.09	0.00	0.42	21.48%
228	1	Subsurface	Beryllium	7.50E-01	0.00	0.01	0.00	0.01	0.72%
228	1	Subsurface	Cadmium	3.90E+00	0.01	0.01	0.00	0.02	0.98%
228	1	Subsurface	Chromium	1.89E+02	0.00	0.02		0.02	0.87%
228	1	Subsurface	Iron	3.77E+04	0.19	0.09		0.28	14.29%
228	1	Subsurface	Manganese	9.97E+02	0.02	0.01	0.02	0.05	2.60%
228	1	Subsurface	Mercury	9.37E+00	0.11	0.76		0.87	44.42%
228	1	Subsurface	Nickel	7.92E+01	0.01	0.13	0.00	0.15	7.64%
228	1	Subsurface	Silver	1.16E+01	0.01	0.08		0.09	4.47%
228	1	Subsurface	Uranium	1.51E+01	0.02	0.01	0.00	0.03	1.34%
228	1	Subsurface	**Totals**		**0.70**	**1.23**	**0.02**	**1.95**	
228	1	Subsurface	**Percent**		**36.04%**	**62.99%**	**0.97%**		
229	1	Subsurface	Arsenic	1.17E+01	0.14	0.04	0.00	0.18	11.85%
229	1	Subsurface	Chromium	4.76E+01	0.00	0.00		0.00	0.29%
229	1	Subsurface	Mercury	9.27E+00	0.11	0.75		0.86	58.02%
229	1	Subsurface	Nickel	9.14E+01	0.02	0.16	0.00	0.17	11.64%
229	1	Subsurface	Uranium	1.56E+02	0.18	0.09	0.00	0.27	18.20%
229	1	Subsurface	**Totals**		**0.44**	**1.04**	**0.00**	**1.48**	
229	1	Subsurface	**Percent**		**29.67%**	**70.21%**	**0.13%**		
229	2	Subsurface	Arsenic	2.12E+01	0.25	0.07	0.00	0.32	23.98%
229	2	Subsurface	Beryllium	7.90E-01	0.00	0.01	0.00	0.01	1.12%
229	2	Subsurface	Chromium	4.80E+01	0.00	0.00		0.00	0.32%
229	2	Subsurface	Mercury	7.30E+00	0.08	0.59		0.68	50.84%
229	2	Subsurface	Nickel	9.93E+01	0.02	0.17	0.00	0.19	14.06%
229	2	Subsurface	Uranium	7.45E+01	0.09	0.04	0.00	0.13	9.68%
229	2	Subsurface	**Totals**		**0.44**	**0.89**	**0.00**	**1.33**	
229	2	Subsurface	**Percent**		**32.73%**	**67.10%**	**0.17%**		
483	1	Subsurface	Arsenic	1.25E+01	0.14	0.04	0.00	0.19	36.24%
483	1	Subsurface	Nickel	1.17E+02	0.02	0.20	0.00	0.22	42.51%
483	1	Subsurface	Silver	1.12E+01	0.01	0.08		0.08	16.24%
483	1	Subsurface	Thallium	4.00E-01	0.02	0.01		0.03	5.01%
483	1	Subsurface	**Totals**		**0.19**	**0.33**	**0.00**	**0.52**	
483	1	Subsurface	**Percent**		**36.70%**	**62.96%**	**0.34%**		
486	1	Subsurface	**Totals**					**0.00**	
486	1	Subsurface	**Percent**						

SWMU = solid waste management unit
EU = exposure unit
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EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
487	1	Subsurface	**Totals**					**0.00**	
487	1	Subsurface	**Percent**						
488	1	Subsurface	Arsenic	8.89E+00	0.10	0.03	0.00	0.13	81.51%
488	1	Subsurface	Chromium	5.31E+01	0.00	0.00		0.00	2.90%
488	1	Subsurface	Uranium	1.48E+01	0.02	0.01	0.00	0.03	15.59%
488	1	Subsurface	**Totals**		**0.12**	**0.04**	**0.00**	**0.16**	
488	1	Subsurface	**Percent**		**73.30%**	**26.38%**	**0.32%**		
489	1	Subsurface	Arsenic	1.00E+01	0.12	0.03	0.00	0.15	49.61%
489	1	Subsurface	Cadmium	8.70E-01	0.00	0.00	0.00	0.00	1.41%
489	1	Subsurface	Nickel	7.88E+01	0.01	0.13	0.00	0.15	48.98%
489	1	Subsurface	**Totals**		**0.13**	**0.17**	**0.00**	**0.30**	
489	1	Subsurface	**Percent**		**43.72%**	**55.84%**	**0.44%**		
492	1	Subsurface	Arsenic	1.47E+01	0.17	0.05	0.00	0.22	0.83%
492	1	Subsurface	Beryllium	1.04E+01	0.02	0.18	0.00	0.20	0.73%
492	1	Subsurface	Cadmium	3.14E+00	0.01	0.00	0.00	0.02	0.06%
492	1	Subsurface	Chromium	1.04E+03	0.00	0.09		0.09	0.35%
492	1	Subsurface	Uranium	1.77E+03	2.05	1.00	0.00	3.06	11.44%
492	1	Subsurface	Vanadium	4.32E+01	2.14	21.00	0.00	23.15	86.59%
492	1	Subsurface	**Totals**		**4.40**	**22.33**	**0.01**	**26.73**	
492	1	Subsurface	**Percent**		**16.45%**	**83.53%**	**0.02%**		
493	1	Subsurface	Aluminum	1.44E+04	0.05	0.02	0.00	0.08	0.33%
493	1	Subsurface	Arsenic	1.18E+01	0.14	0.04	0.00	0.18	0.76%
493	1	Subsurface	Barium	4.04E+02	0.01	0.05	0.00	0.06	0.24%
493	1	Subsurface	Beryllium	9.91E-01	0.00	0.02	0.00	0.02	0.08%
493	1	Subsurface	Chromium	6.61E+01	0.00	0.01		0.01	0.03%
493	1	Subsurface	Cobalt	3.79E+01	0.44	0.21	0.01	0.66	2.82%
493	1	Subsurface	Manganese	3.55E+03	0.09	0.03	0.06	0.18	0.77%
493	1	Subsurface	Mercury	2.60E-01	0.00	0.02		0.02	0.10%
493	1	Subsurface	Nickel	2.13E+02	0.04	0.36	0.00	0.40	1.72%
493	1	Subsurface	Thallium	6.90E-01	0.03	0.01		0.04	0.19%
493	1	Subsurface	Vanadium	4.05E+01	2.01	19.69	0.00	21.70	92.95%
493	1	Subsurface	**Totals**		**2.80**	**20.47**	**0.07**	**23.35**	
493	1	Subsurface	**Percent**		**12.01%**	**87.69%**	**0.30%**		
517	1	Subsurface	Aluminum	1.20E+04	0.04	0.02	0.00	0.06	14.78%
517	1	Subsurface	Beryllium	7.39E-01	0.00	0.01	0.00	0.01	3.20%
517	1	Subsurface	Chromium	4.91E+01	0.00	0.00		0.00	1.01%
517	1	Subsurface	Nickel	1.72E+02	0.03	0.29	0.00	0.32	74.74%
517	1	Subsurface	Thallium	4.20E-01	0.02	0.01		0.03	6.27%
517	1	Subsurface	**Totals**		**0.09**	**0.34**	**0.00**	**0.43**	
517	1	Subsurface	**Percent**		**21.04%**	**78.14%**	**0.82%**		
518	1	Subsurface	Arsenic	6.45E+00	0.07	0.02	0.00	0.10	15.51%
518	1	Subsurface	Cobalt	6.80E+00	0.08	0.04	0.00	0.12	18.93%
518	1	Subsurface	Nickel	1.29E+01	0.00	0.02	0.00	0.02	3.88%
518	1	Subsurface	Pyrene	3.94E+01	0.00	0.01	0.00	0.01	1.69%
518	1	Subsurface	Uranium	2.17E+02	0.25	0.12	0.00	0.38	59.99%
518	1	Subsurface	**Totals**		**0.41**	**0.21**	**0.00**	**0.63**	
518	1	Subsurface	**Percent**		**65.85%**	**33.80%**	**0.35%**		
520	1	Subsurface	Aluminum	9.61E+03	0.03	0.02	0.00	0.05	2.36%
520	1	Subsurface	Arsenic	8.83E+00	0.10	0.03	0.00	0.13	6.10%
520	1	Subsurface	Barium	1.57E+02	0.00	0.02	0.00	0.02	1.01%
520	1	Subsurface	Beryllium	5.77E-01	0.00	0.01	0.00	0.01	0.50%
520	1	Subsurface	Chromium	5.95E+01	0.00	0.01		0.01	0.24%
520	1	Subsurface	Cobalt	1.08E+01	0.12	0.06	0.00	0.19	8.60%
520	1	Subsurface	Iron	1.70E+04	0.08	0.04		0.13	5.76%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
520	1	Subsurface	Manganese	7.31E+02	0.02	0.01	0.01	0.04	1.71%
520	1	Subsurface	Mercury	1.07E+01	0.12	0.87		0.99	45.40%
520	1	Subsurface	Nickel	2.56E+02	0.04	0.44	0.00	0.48	22.14%
520	1	Subsurface	Silver	1.40E+01	0.01	0.09		0.10	4.80%
520	1	Subsurface	Uranium	1.75E+01	0.02	0.01	0.00	0.03	1.39%
520	1	Subsurface	**Totals**		**0.56**	**1.60**	**0.02**	**2.18**	
520	1	Subsurface	**Percent**		**25.93%**	**73.24%**	**0.83%**		
520	2	Subsurface	Arsenic	9.87E+00	0.11	0.03	0.00	0.15	7.65%
520	2	Subsurface	Chromium	6.67E+01	0.00	0.01		0.01	0.31%
520	2	Subsurface	Manganese	6.49E+02	0.02	0.01	0.01	0.03	1.70%
520	2	Subsurface	Mercury	1.19E+01	0.14	0.96		1.10	56.68%
520	2	Subsurface	Nickel	3.10E+02	0.05	0.53	0.00	0.58	30.14%
520	2	Subsurface	Uranium	3.96E+01	0.05	0.02	0.00	0.07	3.52%
520	2	Subsurface	**Totals**		**0.37**	**1.56**	**0.01**	**1.94**	
520	2	Subsurface	**Percent**		**18.96%**	**80.32%**	**0.72%**		
520	3	Subsurface	Arsenic	1.04E+01	0.12	0.04	0.00	0.16	10.17%
520	3	Subsurface	Chromium	6.57E+01	0.00	0.01		0.01	0.38%
520	3	Subsurface	Copper	1.18E+02	0.01	0.01		0.02	0.99%
520	3	Subsurface	Mercury	6.65E+00	0.08	0.54		0.62	39.87%
520	3	Subsurface	Nickel	3.31E+02	0.06	0.56	0.00	0.62	40.39%
520	3	Subsurface	Silver	1.26E+01	0.01	0.09		0.09	6.13%
520	3	Subsurface	Uranium	1.85E+01	0.02	0.01	0.00	0.03	2.07%
520	3	Subsurface	**Totals**		**0.30**	**1.24**	**0.00**	**1.54**	
520	3	Subsurface	**Percent**		**19.17%**	**80.59%**	**0.23%**		
520	4	Subsurface	Arsenic	9.35E+00	0.11	0.03	0.00	0.14	0.55%
520	4	Subsurface	Beryllium	7.27E-01	0.00	0.01	0.00	0.01	0.05%
520	4	Subsurface	Cadmium	1.17E+00	0.00	0.00	0.00	0.01	0.02%
520	4	Subsurface	Chromium	6.60E+01	0.00	0.01		0.01	0.02%
520	4	Subsurface	Copper	1.10E+02	0.01	0.00		0.01	0.06%
520	4	Subsurface	Iron	1.65E+04	0.08	0.04		0.12	0.48%
520	4	Subsurface	Manganese	5.73E+02	0.01	0.01	0.01	0.03	0.11%
520	4	Subsurface	Mercury	9.69E+00	0.11	0.79		0.90	3.50%
520	4	Subsurface	Nickel	2.82E+02	0.05	0.48	0.00	0.53	2.07%
520	4	Subsurface	Silver	1.23E+01	0.01	0.08		0.09	0.36%
520	4	Subsurface	Uranium	2.27E+01	0.03	0.01	0.00	0.04	0.15%
520	4	Subsurface	Vanadium	4.43E+01	2.20	21.53	0.00	23.73	92.62%
520	4	Subsurface	**Totals**		**2.61**	**22.99**	**0.01**	**25.62**	
520	4	Subsurface	**Percent**		**10.20%**	**89.74%**	**0.05%**		
520	5	Subsurface	Antimony	6.62E-01	0.01	0.02		0.02	0.14%
520	5	Subsurface	Arsenic	9.97E+00	0.12	0.03	0.00	0.15	0.86%
520	5	Subsurface	Barium	1.38E+02	0.00	0.02	0.00	0.02	0.11%
520	5	Subsurface	Beryllium	7.01E-01	0.00	0.01	0.00	0.01	0.08%
520	5	Subsurface	Chromium	4.94E+01	0.00	0.00		0.00	0.03%
520	5	Subsurface	Iron	1.70E+04	0.08	0.04		0.13	0.73%
520	5	Subsurface	Manganese	5.45E+02	0.01	0.01	0.01	0.03	0.16%
520	5	Subsurface	Mercury	6.94E+00	0.08	0.56		0.64	3.71%
520	5	Subsurface	Nickel	1.12E+02	0.02	0.19	0.00	0.21	1.22%
520	5	Subsurface	Vanadium	3.01E+01	1.49	14.62	0.00	16.12	92.97%
520	5	Subsurface	**Totals**		**1.82**	**15.51**	**0.01**	**17.34**	
520	5	Subsurface	**Percent**		**10.48%**	**89.46%**	**0.06%**		
531	1	Subsurface	Antimony	1.00E+00	0.01	0.03		0.04	2.29%
531	1	Subsurface	Arsenic	4.68E+01	0.54	0.16	0.00	0.70	43.60%
531	1	Subsurface	Cadmium	3.10E+00	0.01	0.00	0.00	0.02	0.94%
531	1	Subsurface	Chromium	5.33E+01	0.00	0.00		0.00	0.30%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
531	1	Subsurface	Iron	5.68E+04	0.28	0.14		0.42	26.02%
531	1	Subsurface	Manganese	8.65E+02	0.02	0.01	0.01	0.04	2.73%
531	1	Subsurface	Nickel	1.62E+02	0.03	0.28	0.00	0.31	18.92%
531	1	Subsurface	Uranium	2.41E+01	0.03	0.01	0.00	0.04	2.58%
531	1	Subsurface	Zinc	2.45E+03	0.03	0.01		0.04	2.62%
531	1	Subsurface	**Totals**		**0.95**	**0.65**	**0.02**	**1.62**	
531	1	Subsurface	**Percent**		**58.82%**	**40.04%**	**1.14%**		
541	1	Subsurface	Aluminum	1.49E+04	0.05	0.03	0.00	0.08	0.25%
541	1	Subsurface	Arsenic	9.08E+00	0.11	0.03	0.00	0.14	0.42%
541	1	Subsurface	Barium	1.36E+02	0.00	0.02	0.00	0.02	0.06%
541	1	Subsurface	Beryllium	7.40E-01	0.00	0.01	0.00	0.01	0.04%
541	1	Subsurface	Cadmium	1.60E+00	0.01	0.00	0.00	0.01	0.02%
541	1	Subsurface	Chromium	9.44E+02	0.00	0.08		0.08	0.26%
541	1	Subsurface	Iron	1.88E+04	0.09	0.05		0.14	0.43%
541	1	Subsurface	Manganese	4.97E+02	0.01	0.00	0.01	0.03	0.08%
541	1	Subsurface	Mercury	2.02E-01	0.00	0.02		0.02	0.06%
541	1	Subsurface	Naphthalene	6.53E-01	0.00	0.00	0.01	0.01	0.02%
541	1	Subsurface	Nickel	1.58E+01	0.00	0.03	0.00	0.03	0.09%
541	1	Subsurface	Uranium	7.39E+03	8.56	4.19	0.02	12.78	39.56%
541	1	Subsurface	Vanadium	3.54E+01	1.76	17.20	0.00	18.96	58.70%
541	1	Subsurface	**Totals**		**10.60**	**21.66**	**0.04**	**32.29**	
541	1	Subsurface	**Percent**		**32.82%**	**67.06%**	**0.12%**		
561	1	Subsurface	Aluminum	1.76E+04	0.06	0.03	0.00	0.09	0.42%
561	1	Subsurface	Antimony	8.95E-01	0.01	0.03		0.03	0.15%
561	1	Subsurface	Arsenic	1.63E+01	0.19	0.06	0.00	0.25	1.09%
561	1	Subsurface	Barium	1.44E+02	0.00	0.02	0.00	0.02	0.09%
561	1	Subsurface	Beryllium	6.74E-01	0.00	0.01	0.00	0.01	0.06%
561	1	Subsurface	Chromium	9.00E+01	0.00	0.01		0.01	0.04%
561	1	Subsurface	Cobalt	1.10E+01	0.13	0.06	0.00	0.19	0.85%
561	1	Subsurface	Iron	2.07E+04	0.10	0.05		0.15	0.68%
561	1	Subsurface	Manganese	1.81E+03	0.04	0.02	0.03	0.09	0.41%
561	1	Subsurface	Nickel	1.49E+01	0.00	0.03	0.00	0.03	0.13%
561	1	Subsurface	Thallium	3.27E-01	0.01	0.01		0.02	0.09%
561	1	Subsurface	Uranium	2.65E+02	0.31	0.15	0.00	0.46	2.04%
561	1	Subsurface	Vanadium	3.94E+01	1.96	19.15	0.00	21.11	93.96%
561	1	Subsurface	**Totals**		**2.82**	**19.61**	**0.04**	**22.46**	
561	1	Subsurface	**Percent**		**12.54%**	**87.30%**	**0.16%**		
561	2	Subsurface	Aluminum	8.86E+03	0.03	0.02	0.00	0.05	0.23%
561	2	Subsurface	Antimony	5.09E+00	0.04	0.14		0.19	0.90%
561	2	Subsurface	Arsenic	1.27E+01	0.15	0.04	0.00	0.19	0.91%
561	2	Subsurface	Beryllium	6.21E-01	0.00	0.01	0.00	0.01	0.06%
561	2	Subsurface	Cadmium	3.95E-01	0.00	0.00	0.00	0.00	0.01%
561	2	Subsurface	Chromium	3.07E+02	0.00	0.03		0.03	0.13%
561	2	Subsurface	Cobalt	1.09E+01	0.13	0.06	0.00	0.19	0.90%
561	2	Subsurface	Manganese	1.07E+03	0.03	0.01	0.02	0.05	0.26%
561	2	Subsurface	Thallium	3.83E-01	0.02	0.01		0.02	0.12%
561	2	Subsurface	Uranium	1.41E+03	1.63	0.80	0.00	2.43	11.59%
561	2	Subsurface	Vanadium	3.32E+01	1.65	16.15	0.00	17.79	84.90%
561	2	Subsurface	**Totals**		**3.67**	**17.26**	**0.03**	**20.96**	
561	2	Subsurface	**Percent**		**17.52%**	**82.36%**	**0.12%**		
562	1	Subsurface	Arsenic	1.18E+01	0.14	0.04	0.00	0.18	29.70%
562	1	Subsurface	Chromium	3.15E+02	0.00	0.03		0.03	4.72%
562	1	Subsurface	Uranium	2.27E+02	0.26	0.13	0.00	0.39	65.58%
562	1	Subsurface	**Totals**		**0.40**	**0.20**	**0.00**	**0.60**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.24. HIs for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
562	1	Subsurface	**Percent**		**66.95%**	**32.84%**	**0.21%**		
562	2	Subsurface	**Totals**					**0.00**	
562	2	Subsurface	**Percent**						
562	3	Subsurface	Uranium	5.89E+01	0.07	0.03	0.00	0.10	100.00%
562	3	Subsurface	**Totals**		**0.07**	**0.03**	**0.00**	**0.10**	
562	3	Subsurface	**Percent**		**67.03%**	**32.82%**	**0.16%**		
562	4	Subsurface	Chromium	4.67E+01	0.00	0.00		0.00	10.33%
562	4	Subsurface	Uranium	2.10E+01	0.02	0.01	0.00	0.04	89.67%
562	4	Subsurface	**Totals**		**0.02**	**0.02**	**0.00**	**0.04**	
562	4	Subsurface	**Percent**		**60.37%**	**39.49%**	**0.14%**		
562	5	Subsurface	Chromium	1.53E+02	0.00	0.01		0.01	3.67%
562	5	Subsurface	Uranium	2.08E+02	0.24	0.12	0.00	0.36	96.33%
562	5	Subsurface	**Totals**		**0.24**	**0.13**	**0.00**	**0.37**	
562	5	Subsurface	**Percent**		**64.66%**	**35.19%**	**0.15%**		
563	1	Subsurface	Cadmium	8.96E-01	0.00	0.00	0.00	0.00	7.30%
563	1	Subsurface	Chromium	3.34E+02	0.00	0.03		0.03	49.52%
563	1	Subsurface	Uranium	1.51E+01	0.02	0.01	0.00	0.03	43.18%
563	1	Subsurface	**Totals**		**0.02**	**0.04**	**0.00**	**0.06**	
563	1	Subsurface	**Percent**		**35.38%**	**64.43%**	**0.19%**		
563	2	Subsurface	**Totals**					**0.00**	
563	2	Subsurface	**Percent**						
564	1	Subsurface	Aluminum	1.27E+04	0.04	0.02	0.00	0.07	0.15%
564	1	Subsurface	Arsenic	4.30E+01	0.50	0.15	0.00	0.65	1.45%
564	1	Subsurface	Beryllium	2.12E+00	0.00	0.04	0.00	0.04	0.09%
564	1	Subsurface	Cadmium	1.96E+00	0.01	0.00	0.00	0.01	0.02%
564	1	Subsurface	Chromium	8.32E+01	0.00	0.01		0.01	0.02%
564	1	Subsurface	Iron	3.66E+04	0.18	0.09		0.27	0.61%
564	1	Subsurface	Mercury	2.30E-01	0.00	0.02		0.02	0.05%
564	1	Subsurface	Nickel	2.24E+01	0.00	0.04	0.00	0.04	0.09%
564	1	Subsurface	Thallium	2.36E+00	0.10	0.05		0.15	0.34%
564	1	Subsurface	Uranium	5.83E+01	0.07	0.03	0.00	0.10	0.23%
564	1	Subsurface	Vanadium	8.06E+01	4.00	39.18	0.00	43.19	96.95%
564	1	Subsurface	**Totals**		**4.91**	**39.63**	**0.01**	**44.55**	
564	1	Subsurface	**Percent**		**11.03%**	**88.96%**	**0.01%**		
565	1	Subsurface	**Totals**					**0.00**	
565	1	Subsurface	**Percent**						
567	1	Subsurface	Aluminum	1.29E+04	0.04	0.02	0.00	0.07	50.63%
567	1	Subsurface	Manganese	1.32E+03	0.03	0.01	0.02	0.07	49.37%
567	1	Subsurface	**Totals**		**0.08**	**0.03**	**0.02**	**0.14**	
567	1	Subsurface	**Percent**		**57.04%**	**25.57%**	**17.40%**		
567	3	Subsurface	Chromium	5.21E+01	0.00	0.00		0.00	100.00%
567	3	Subsurface	**Totals**		**0.00**	**0.00**		**0.00**	
567	3	Subsurface	**Percent**		**2.59%**	**97.41%**			
567	4	Subsurface	Aluminum	1.25E+04	0.04	0.02	0.00	0.07	28.99%
567	4	Subsurface	Arsenic	1.09E+01	0.13	0.04	0.00	0.16	71.01%
567	4	Subsurface	**Totals**		**0.17**	**0.06**	**0.00**	**0.23**	
567	4	Subsurface	**Percent**		**73.56%**	**25.30%**	**1.14%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.25. HIs for the Child Residential Receptor

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
1	1	Surface	Beryllium	3.89E+00	0.02	0.35	0.00	0.37	92.93%
1	1	Surface	Cadmium	1.10E+00	0.01	0.01	0.00	0.02	5.58%
1	1	Surface	Chromium	1.28E+01	0.00	0.01		0.01	1.49%
1	1	Surface	**Totals**		**0.04**	**0.36**	**0.00**	**0.40**	
1	1	Surface	**Percent**		**9.70%**	**89.94%**	**0.36%**		
1	2	Surface	Beryllium	8.23E+00	0.05	0.74	0.00	0.79	0.78%
1	2	Surface	Cadmium	6.46E+00	0.08	0.05	0.00	0.13	0.13%
1	2	Surface	Chromium	2.01E+02	0.00	0.09		0.09	0.09%
1	2	Surface	Copper	1.81E+02	0.06	0.04		0.10	0.10%
1	2	Surface	Mercury	5.94E+00	0.25	2.53		2.78	2.75%
1	2	Surface	Nickel	5.75E+01	0.04	0.51	0.00	0.55	0.55%
1	2	Surface	Silver	3.31E+01	0.08	1.19		1.27	1.25%
1	2	Surface	Thallium	3.70E-01	0.06	0.04		0.10	0.10%
1	2	Surface	Vanadium	3.49E+01	6.37	89.14	0.00	95.51	94.25%
1	2	Surface	**Totals**		**7.00**	**94.33**	**0.01**	**101.33**	
1	2	Surface	**Percent**		**6.90%**	**93.09%**	**0.01%**		
1	3	Surface	Chromium	1.45E+01	0.00	0.01		0.01	100.00%
1	3	Surface	**Totals**		**0.00**	**0.01**		**0.01**	
1	3	Surface	**Percent**		**1.82%**	**98.18%**			
1	4	Surface	Beryllium	7.25E-01	0.00	0.06	0.00	0.07	12.33%
1	4	Surface	Chromium	9.30E+01	0.00	0.04		0.04	7.69%
1	4	Surface	Nickel	4.69E+01	0.03	0.42	0.00	0.45	79.97%
1	4	Surface	**Totals**		**0.04**	**0.53**	**0.00**	**0.57**	
1	4	Surface	**Percent**		**6.26%**	**93.26%**	**0.47%**		
1	5	Surface	Beryllium	8.30E+00	0.05	0.74	0.00	0.80	65.68%
1	5	Surface	Cadmium	1.20E+00	0.02	0.01	0.00	0.02	2.02%
1	5	Surface	Nickel	4.07E+01	0.03	0.36	0.00	0.39	32.30%
1	5	Surface	**Totals**		**0.09**	**1.12**	**0.00**	**1.21**	
1	5	Surface	**Percent**		**7.77%**	**91.84%**	**0.39%**		
12	1	Surface	Aluminum	8.19E+03	0.10	0.07	0.01	0.19	0.21%
12	1	Surface	Antimony	5.04E-01	0.02	0.08		0.09	0.10%
12	1	Surface	Arsenic	1.34E+01	0.57	0.24	0.00	0.81	0.92%
12	1	Surface	Barium	1.04E+02	0.01	0.07	0.00	0.07	0.08%
12	1	Surface	Beryllium	6.72E+00	0.04	0.60	0.00	0.65	0.73%
12	1	Surface	Cadmium	1.02E+00	0.01	0.01	0.00	0.02	0.02%
12	1	Surface	Chromium	6.33E+01	0.00	0.03		0.03	0.03%
12	1	Surface	Cobalt	9.16E+00	0.39	0.27	0.01	0.67	0.75%
12	1	Surface	Iron	3.01E+04	0.55	0.38		0.93	1.05%
12	1	Surface	Manganese	1.01E+03	0.09	0.05	0.10	0.24	0.27%
12	1	Surface	Mercury	8.80E+00	0.38	3.75		4.13	4.64%
12	1	Surface	Molybdenum	1.74E+01	0.04	0.03		0.08	0.09%
12	1	Surface	Nickel	7.74E+01	0.05	0.69	0.00	0.75	0.84%
12	1	Surface	Silver	1.10E+01	0.03	0.39		0.42	0.48%
12	1	Surface	Thallium	1.03E+00	0.16	0.12		0.28	0.31%
12	1	Surface	Uranium	3.76E+02	1.60	1.12	0.01	2.73	3.07%
12	1	Surface	Vanadium	2.80E+01	5.12	71.67	0.00	76.80	86.40%
12	1	Surface	**Totals**		**9.17**	**79.58**	**0.13**	**88.88**	
12	1	Surface	**Percent**		**10.32%**	**89.54%**	**0.15%**		
13	1	Surface	**Totals**					**0.00**	
13	1	Surface	**Percent**						
13	4	Surface	**Totals**					**0.00**	
13	4	Surface	**Percent**						
13	5	Surface	Aluminum	1.13E+04	0.14	0.10	0.01	0.26	10.54%
13	5	Surface	Antimony	8.20E-01	0.03	0.12		0.15	6.13%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	5	Surface	Cadmium	1.20E+00	0.02	0.01	0.00	0.02	1.01%
13	5	Surface	Chromium	1.51E+01	0.00	0.01		0.01	0.29%
13	5	Surface	Nickel	1.17E+02	0.07	1.04	0.01	1.12	46.35%
13	5	Surface	Uranium	1.19E+02	0.51	0.36	0.00	0.86	35.68%
13	5	Surface	**Totals**		**0.77**	**1.64**	**0.02**	**2.42**	
13	5	Surface	**Percent**		**31.67%**	**67.52%**	**0.81%**		
13	6	Surface	**Totals**					**0.00**	
13	6	Surface	**Percent**						
13	9	Surface	Uranium	1.82E+01	0.08	0.05	0.00	0.13	100.00%
13	9	Surface	**Totals**		**0.08**	**0.05**	**0.00**	**0.13**	
13	9	Surface	**Percent**		**58.69%**	**41.09%**	**0.22%**		
13	11	Surface	**Totals**					**0.00**	
13	11	Surface	**Percent**						
14	1	Surface	Arsenic	1.10E+01	0.47	0.20	0.00	0.67	17.60%
14	1	Surface	Chromium	6.36E+01	0.00	0.03		0.03	0.78%
14	1	Surface	Iron	1.89E+04	0.34	0.24		0.59	15.43%
14	1	Surface	Nickel	1.40E+02	0.09	1.25	0.01	1.35	35.50%
14	1	Surface	Silver	1.67E+01	0.04	0.60		0.64	16.87%
14	1	Surface	Uranium	7.21E+01	0.31	0.22	0.00	0.52	13.80%
14	1	Surface	**Totals**		**1.25**	**2.53**	**0.01**	**3.79**	
14	1	Surface	**Percent**		**33.01%**	**66.67%**	**0.32%**		
14	2	Surface	Antimony	3.70E+00	0.12	0.55		0.67	5.57%
14	2	Surface	Arsenic	1.45E+01	0.62	0.26	0.00	0.88	7.34%
14	2	Surface	Beryllium	7.10E-01	0.00	0.06	0.00	0.07	0.57%
14	2	Surface	Chromium	6.65E+01	0.00	0.03		0.03	0.26%
14	2	Surface	Copper	1.76E+02	0.06	0.04		0.10	0.80%
14	2	Surface	Iron	3.72E+04	0.68	0.48		1.15	9.59%
14	2	Surface	Manganese	1.44E+03	0.13	0.07	0.14	0.34	2.86%
14	2	Surface	Mercury	2.67E-01	0.01	0.11		0.13	1.04%
14	2	Surface	Nickel	6.78E+02	0.43	6.07	0.04	6.54	54.29%
14	2	Surface	Uranium	2.93E+02	1.25	0.87	0.00	2.13	17.69%
14	2	Surface	**Totals**		**3.30**	**8.55**	**0.18**	**12.04**	
14	2	Surface	**Percent**		**27.45%**	**71.02%**	**1.53%**		
14	3	Surface	Arsenic	1.30E+01	0.55	0.23	0.00	0.79	6.09%
14	3	Surface	Chromium	7.01E+01	0.00	0.03		0.03	0.25%
14	3	Surface	Copper	1.29E+02	0.04	0.03		0.07	0.54%
14	3	Surface	Iron	3.48E+04	0.64	0.45		1.08	8.34%
14	3	Surface	Manganese	1.06E+03	0.10	0.05	0.10	0.25	1.94%
14	3	Surface	Mercury	7.48E+00	0.32	3.19		3.51	27.04%
14	3	Surface	Molybdenum	2.21E+01	0.06	0.04		0.10	0.74%
14	3	Surface	Nickel	5.76E+02	0.37	5.16	0.03	5.56	42.86%
14	3	Surface	Uranium	2.18E+02	0.93	0.65	0.00	1.58	12.19%
14	3	Surface	**Totals**		**3.00**	**9.83**	**0.14**	**12.97**	
14	3	Surface	**Percent**		**23.13%**	**75.79%**	**1.08%**		
14	4	Surface	Antimony	4.30E+00	0.14	0.64		0.78	5.80%
14	4	Surface	Arsenic	1.33E+01	0.57	0.24	0.00	0.81	6.01%
14	4	Surface	Chromium	7.20E+01	0.00	0.03		0.03	0.25%
14	4	Surface	Copper	3.54E+02	0.11	0.08		0.19	1.43%
14	4	Surface	Iron	3.88E+04	0.71	0.50		1.21	8.97%
14	4	Surface	Mercury	4.87E-01	0.02	0.21		0.23	1.70%
14	4	Surface	Nickel	7.31E+02	0.47	6.54	0.04	7.04	52.41%
14	4	Surface	Silver	1.17E+01	0.03	0.42		0.45	3.34%
14	4	Surface	Uranium	3.72E+02	1.58	1.11	0.01	2.70	20.09%
14	4	Surface	**Totals**		**3.63**	**9.76**	**0.05**	**13.44**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
14	4	Surface	**Percent**		**27.00%**	**72.63%**	**0.37%**		
14	5	Surface	Antimony	2.30E+00	0.07	0.34		0.42	2.62%
14	5	Surface	Arsenic	1.31E+01	0.56	0.23	0.00	0.80	5.00%
14	5	Surface	Cadmium	3.90E+00	0.05	0.03	0.00	0.08	0.50%
14	5	Surface	Chromium	4.70E+01	0.00	0.02		0.02	0.14%
14	5	Surface	Cobalt	1.40E+01	0.60	0.42	0.01	1.03	6.45%
14	5	Surface	Copper	1.34E+02	0.04	0.03		0.07	0.46%
14	5	Surface	Iron	3.92E+04	0.72	0.50		1.22	7.65%
14	5	Surface	Manganese	8.28E+02	0.08	0.04	0.08	0.20	1.24%
14	5	Surface	Mercury	1.09E+01	0.47	4.66		5.13	32.23%
14	5	Surface	Nickel	4.61E+02	0.29	4.13	0.02	4.45	27.95%
14	5	Surface	Silver	1.29E+01	0.03	0.46		0.49	3.10%
14	5	Surface	Thallium	4.10E-01	0.07	0.05		0.11	0.70%
14	5	Surface	Uranium	2.62E+02	1.12	0.78	0.00	1.90	11.96%
14	5	Surface	**Totals**		**4.09**	**11.70**	**0.13**	**15.91**	
14	5	Surface	**Percent**		**25.70%**	**73.51%**	**0.79%**		
14	6	Surface	Antimony	2.70E+00	0.09	0.40		0.49	3.28%
14	6	Surface	Cadmium	8.40E-01	0.01	0.01	0.00	0.02	0.12%
14	6	Surface	Chromium	4.46E+02	0.00	0.20		0.21	1.40%
14	6	Surface	Copper	1.22E+02	0.04	0.03		0.07	0.45%
14	6	Surface	Mercury	3.47E-01	0.01	0.15		0.16	1.09%
14	6	Surface	Nickel	9.63E+02	0.62	8.62	0.05	9.29	62.38%
14	6	Surface	Silver	1.19E+01	0.03	0.43		0.46	3.06%
14	6	Surface	Uranium	5.79E+02	2.47	1.73	0.01	4.20	28.22%
14	6	Surface	**Totals**		**3.27**	**11.56**	**0.06**	**14.89**	
14	6	Surface	**Percent**		**21.94%**	**77.65%**	**0.41%**		
14	7	Surface	Antimony	7.50E-01	0.02	0.11		0.14	0.72%
14	7	Surface	Arsenic	1.13E+01	0.48	0.20	0.00	0.69	3.66%
14	7	Surface	Cadmium	2.70E+00	0.03	0.02	0.00	0.06	0.29%
14	7	Surface	Chromium	6.46E+01	0.00	0.03		0.03	0.16%
14	7	Surface	Mercury	7.82E+00	0.33	3.33		3.67	19.52%
14	7	Surface	Nickel	1.22E+03	0.78	10.95	0.07	11.79	62.78%
14	7	Surface	Uranium	3.33E+02	1.42	0.99	0.01	2.42	12.87%
14	7	Surface	**Totals**		**3.07**	**15.63**	**0.08**	**18.78**	
14	7	Surface	**Percent**		**16.37%**	**83.23%**	**0.40%**		
14	8	Surface	Antimony	6.10E-01	0.02	0.09		0.11	0.80%
14	8	Surface	Arsenic	1.14E+01	0.48	0.20	0.00	0.69	5.01%
14	8	Surface	Chromium	4.60E+01	0.00	0.02		0.02	0.16%
14	8	Surface	Mercury	7.90E+00	0.34	3.37		3.70	26.81%
14	8	Surface	Nickel	6.73E+02	0.43	6.02	0.04	6.48	46.93%
14	8	Surface	Silver	9.63E+00	0.02	0.34		0.37	2.67%
14	8	Surface	Uranium	3.35E+02	1.43	1.00	0.01	2.43	17.62%
14	8	Surface	**Totals**		**2.73**	**11.05**	**0.04**	**13.82**	
14	8	Surface	**Percent**		**19.72%**	**79.95%**	**0.33%**		
14	9	Surface	Antimony	2.00E+00	0.06	0.30		0.36	1.68%
14	9	Surface	Arsenic	1.40E+01	0.60	0.25	0.00	0.85	3.97%
14	9	Surface	Cadmium	9.40E-01	0.01	0.01	0.00	0.02	0.09%
14	9	Surface	Chromium	4.64E+01	0.00	0.02		0.02	0.10%
14	9	Surface	Mercury	1.13E+00	0.05	0.48		0.53	2.46%
14	9	Surface	Nickel	9.43E+02	0.60	8.44	0.05	9.10	42.28%
14	9	Surface	Uranium	1.46E+03	6.24	4.37	0.02	10.63	49.41%
14	9	Surface	**Totals**		**7.57**	**13.87**	**0.08**	**21.51**	
14	9	Surface	**Percent**		**35.16%**	**64.47%**	**0.37%**		
14	10	Surface	Antimony	9.40E-01	0.03	0.14		0.17	0.79%

SWMU = solid waste management unit
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Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
14	10	Surface	Arsenic	1.12E+01	0.48	0.20	0.00	0.68	3.19%
14	10	Surface	Chromium	4.19E+01	0.00	0.02		0.02	0.09%
14	10	Surface	Copper	1.41E+02	0.05	0.03		0.08	0.36%
14	10	Surface	Iron	2.75E+04	0.50	0.35		0.85	3.97%
14	10	Surface	Mercury	2.51E+01	1.07	10.69		11.76	54.84%
14	10	Surface	Nickel	6.00E+02	0.38	5.37	0.03	5.79	26.99%
14	10	Surface	Uranium	2.88E+02	1.23	0.86	0.00	2.09	9.76%
14	10	Surface	**Totals**		**3.74**	**17.67**	**0.04**	**21.45**	
14	10	Surface	**Percent**		**17.43%**	**82.38%**	**0.19%**		
15	1	Surface	Antimony	6.40E-01	0.02	0.10		0.12	2.98%
15	1	Surface	Arsenic	1.24E+01	0.53	0.22	0.00	0.75	19.34%
15	1	Surface	Chromium	5.61E+01	0.00	0.03		0.03	0.67%
15	1	Surface	Copper	1.95E+02	0.06	0.04		0.11	2.72%
15	1	Surface	Iron	2.95E+04	0.54	0.38		0.92	23.55%
15	1	Surface	Nickel	1.33E+02	0.08	1.19	0.01	1.28	32.85%
15	1	Surface	Silver	1.23E+01	0.03	0.44		0.47	12.11%
15	1	Surface	Uranium	3.09E+01	0.13	0.09	0.00	0.22	5.77%
15	1	Surface	**Totals**		**1.40**	**2.48**	**0.01**	**3.89**	
15	1	Surface	**Percent**		**35.91%**	**63.79%**	**0.30%**		
15	2	Surface	Antimony	6.60E-01	0.02	0.10		0.12	1.25%
15	2	Surface	Arsenic	1.63E+01	0.69	0.29	0.01	0.99	10.33%
15	2	Surface	Chromium	5.90E+01	0.00	0.03		0.03	0.29%
15	2	Surface	Iron	3.89E+04	0.71	0.50		1.21	12.61%
15	2	Surface	Mercury	9.33E+00	0.40	3.98		4.37	45.67%
15	2	Surface	Nickel	1.97E+02	0.13	1.77	0.01	1.90	19.86%
15	2	Surface	Uranium	1.32E+02	0.56	0.39	0.00	0.96	9.99%
15	2	Surface	**Totals**		**2.51**	**7.05**	**0.02**	**9.58**	
15	2	Surface	**Percent**		**26.21%**	**73.60%**	**0.19%**		
15	3	Surface	Antimony	2.45E+01	0.78	3.65		4.44	18.97%
15	3	Surface	Arsenic	2.60E+01	1.11	0.47	0.01	1.58	6.76%
15	3	Surface	Beryllium	7.60E-01	0.00	0.07	0.00	0.07	0.31%
15	3	Surface	Cadmium	1.19E+01	0.15	0.09	0.01	0.24	1.04%
15	3	Surface	Chromium	7.53E+01	0.00	0.03		0.04	0.15%
15	3	Surface	Cobalt	3.41E+01	1.45	1.02	0.03	2.50	10.68%
15	3	Surface	Copper	1.40E+03	0.45	0.31		0.76	3.24%
15	3	Surface	Iron	9.20E+04	1.68	1.18		2.86	12.21%
15	3	Surface	Manganese	1.60E+03	0.15	0.08	0.15	0.38	1.64%
15	3	Surface	Mercury	2.74E+00	0.12	1.17		1.28	5.49%
15	3	Surface	Molybdenum	1.70E+01	0.04	0.03		0.07	0.32%
15	3	Surface	Nickel	7.57E+02	0.48	6.77	0.04	7.29	31.19%
15	3	Surface	Selenium	2.65E+01	0.07	0.05	0.00	0.11	0.49%
15	3	Surface	Silver	3.20E+00	0.01	0.11		0.12	0.52%
15	3	Surface	Uranium	2.16E+02	0.92	0.64	0.00	1.57	6.71%
15	3	Surface	Zinc	8.79E+02	0.04	0.03		0.06	0.27%
15	3	Surface	**Totals**		**7.45**	**15.70**	**0.24**	**23.39**	
15	3	Surface	**Percent**		**31.86%**	**67.11%**	**1.02%**		
15	4	Surface	Antimony	7.40E+00	0.24	1.10		1.34	4.73%
15	4	Surface	Arsenic	3.47E+01	1.48	0.62	0.01	2.11	7.44%
15	4	Surface	Cadmium	1.40E+00	0.02	0.01	0.00	0.03	0.10%
15	4	Surface	Chromium	1.02E+02	0.00	0.05		0.05	0.17%
15	4	Surface	Copper	7.05E+02	0.23	0.16		0.38	1.35%
15	4	Surface	Iron	7.81E+04	1.43	1.00		2.43	8.56%
15	4	Surface	Manganese	1.54E+03	0.14	0.08	0.15	0.37	1.29%
15	4	Surface	Mercury	1.41E+01	0.60	6.00		6.61	23.31%

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EPC = exposure point concentration
HI = hazard index

Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	4	Surface	Nickel	1.37E+03	0.88	12.30	0.07	13.25	46.76%
15	4	Surface	Silver	1.46E+01	0.04	0.52		0.56	1.98%
15	4	Surface	Uranium	1.57E+02	0.67	0.47	0.00	1.14	4.01%
15	4	Surface	Zinc	1.19E+03	0.05	0.04		0.09	0.30%
15	4	Surface	**Totals**		**5.76**	**22.34**	**0.24**	**28.34**	
15	4	Surface	**Percent**		**20.32%**	**78.85%**	**0.83%**		
15	5	Surface	Antimony	3.10E+00	0.10	0.46		0.56	4.78%
15	5	Surface	Arsenic	1.28E+01	0.55	0.23	0.00	0.78	6.62%
15	5	Surface	Cadmium	1.50E+00	0.02	0.01	0.00	0.03	0.26%
15	5	Surface	Chromium	4.28E+01	0.00	0.02		0.02	0.17%
15	5	Surface	Copper	5.63E+03	1.80	1.26		3.06	26.05%
15	5	Surface	Mercury	3.38E-01	0.01	0.14		0.16	1.35%
15	5	Surface	Nickel	5.10E+02	0.33	4.57	0.03	4.92	41.87%
15	5	Surface	Silver	1.46E+01	0.04	0.52		0.56	4.77%
15	5	Surface	Uranium	2.13E+02	0.91	0.64	0.00	1.55	13.19%
15	5	Surface	Zinc	1.52E+03	0.06	0.05		0.11	0.94%
15	5	Surface	**Totals**		**3.82**	**7.90**	**0.04**	**11.75**	
15	5	Surface	**Percent**		**32.48%**	**67.22%**	**0.30%**		
15	6	Surface	Antimony	5.10E+00	0.16	0.76		0.92	11.06%
15	6	Surface	Arsenic	1.24E+01	0.53	0.22	0.00	0.76	9.05%
15	6	Surface	Cadmium	1.50E+00	0.02	0.01	0.00	0.03	0.37%
15	6	Surface	Chromium	5.80E+01	0.00	0.03		0.03	0.32%
15	6	Surface	Cobalt	1.62E+01	0.69	0.48	0.01	1.19	14.21%
15	6	Surface	Copper	4.23E+02	0.14	0.09		0.23	2.75%
15	6	Surface	Iron	3.15E+04	0.58	0.40		0.98	11.71%
15	6	Surface	Mercury	4.10E-01	0.02	0.17		0.19	2.30%
15	6	Surface	Nickel	3.24E+02	0.21	2.90	0.02	3.12	37.40%
15	6	Surface	Silver	1.09E+01	0.03	0.39		0.42	5.01%
15	6	Surface	Uranium	6.70E+01	0.29	0.20	0.00	0.49	5.83%
15	6	Surface	**Totals**		**2.65**	**5.67**	**0.04**	**8.35**	
15	6	Surface	**Percent**		**31.74%**	**67.83%**	**0.43%**		
15	7	Surface	Antimony	7.50E-01	0.02	0.11		0.14	1.48%
15	7	Surface	Arsenic	1.61E+01	0.69	0.29	0.01	0.98	10.62%
15	7	Surface	Cadmium	1.00E+00	0.01	0.01	0.00	0.02	0.22%
15	7	Surface	Chromium	7.87E+01	0.00	0.04		0.04	0.40%
15	7	Surface	Copper	7.33E+02	0.23	0.16		0.40	4.33%
15	7	Surface	Iron	3.42E+04	0.62	0.44		1.06	11.53%
15	7	Surface	Manganese	1.11E+03	0.10	0.06	0.11	0.26	2.86%
15	7	Surface	Nickel	5.59E+02	0.36	5.00	0.03	5.39	58.49%
15	7	Surface	Silver	1.29E+01	0.03	0.46		0.49	5.36%
15	7	Surface	Uranium	5.39E+01	0.23	0.16	0.00	0.39	4.25%
15	7	Surface	Zinc	5.87E+02	0.03	0.02		0.04	0.46%
15	7	Surface	**Totals**		**2.33**	**6.74**	**0.14**	**9.21**	
15	7	Surface	**Percent**		**25.27%**	**73.18%**	**1.55%**		
15	8	Surface	Antimony	5.40E+00	0.17	0.81		0.98	9.79%
15	8	Surface	Arsenic	1.17E+01	0.50	0.21	0.00	0.71	7.09%
15	8	Surface	Chromium	7.74E+01	0.00	0.04		0.04	0.36%
15	8	Surface	Copper	1.62E+02	0.05	0.04		0.09	0.88%
15	8	Surface	Iron	2.83E+04	0.52	0.36		0.88	8.78%
15	8	Surface	Mercury	1.00E+01	0.43	4.28		4.71	47.11%
15	8	Surface	Nickel	1.82E+02	0.12	1.63	0.01	1.75	17.54%
15	8	Surface	Silver	1.36E+01	0.03	0.49		0.52	5.20%
15	8	Surface	Uranium	4.46E+01	0.19	0.13	0.00	0.32	3.24%
15	8	Surface	**Totals**		**2.01**	**7.97**	**0.01**	**9.99**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	8	Surface	**Percent**		**20.08%**	**79.78%**	**0.14%**		
15	9	Surface	Arsenic	1.10E+01	0.47	0.20	0.00	0.67	17.24%
15	9	Surface	Chromium	9.56E+01	0.00	0.04		0.04	1.15%
15	9	Surface	Copper	1.36E+02	0.04	0.03		0.07	1.89%
15	9	Surface	Iron	2.76E+04	0.50	0.35		0.86	21.99%
15	9	Surface	Nickel	1.49E+02	0.10	1.33	0.01	1.44	36.85%
15	9	Surface	Silver	1.54E+01	0.04	0.55		0.59	15.18%
15	9	Surface	Uranium	3.07E+01	0.13	0.09	0.00	0.22	5.71%
15	9	Surface	**Totals**		**1.28**	**2.60**	**0.01**	**3.90**	
15	9	Surface	**Percent**		**32.95%**	**66.74%**	**0.31%**		
15	10	Surface	Chromium	3.55E+01	0.00	0.02		0.02	0.28%
15	10	Surface	Mercury	7.84E+00	0.33	3.34		3.68	61.45%
15	10	Surface	Nickel	1.46E+02	0.09	1.30	0.01	1.40	23.49%
15	10	Surface	Silver	1.08E+01	0.03	0.39		0.41	6.93%
15	10	Surface	Uranium	6.47E+01	0.28	0.19	0.00	0.47	7.86%
15	10	Surface	**Totals**		**0.73**	**5.24**	**0.01**	**5.98**	
15	10	Surface	**Percent**		**12.22%**	**87.63%**	**0.15%**		
16	1	Surface	**Totals**					**0.00**	
16	1	Surface	**Percent**						
16	2	Surface	Beryllium	8.40E-01	0.01	0.08	0.00	0.08	27.05%
16	2	Surface	Chromium	2.04E+01	0.00	0.01		0.01	3.19%
16	2	Surface	Nickel	2.16E+01	0.01	0.19	0.00	0.21	69.76%
16	2	Surface	**Totals**		**0.02**	**0.28**	**0.00**	**0.30**	
16	2	Surface	**Percent**		**6.48%**	**93.06%**	**0.45%**		
16	3	Surface	**Totals**					**0.00**	
16	3	Surface	**Percent**						
16	4	Surface	**Totals**					**0.00**	
16	4	Surface	**Percent**						
19	1	Surface	Beryllium	1.10E+00	0.01	0.10	0.00	0.11	26.67%
19	1	Surface	Cadmium	1.20E+00	0.02	0.01	0.00	0.02	6.18%
19	1	Surface	Thallium	9.80E-01	0.16	0.11		0.27	67.15%
19	1	Surface	**Totals**		**0.18**	**0.22**	**0.00**	**0.40**	
19	1	Surface	**Percent**		**45.14%**	**54.65%**	**0.21%**		
26	1	Surface	Arsenic	1.29E+01	0.55	0.23	0.00	0.78	37.68%
26	1	Surface	Beryllium	6.69E-01	0.00	0.06	0.00	0.06	3.09%
26	1	Surface	Cadmium	1.99E+00	0.03	0.01	0.00	0.04	1.96%
26	1	Surface	Chromium	1.90E+01	0.00	0.01		0.01	0.43%
26	1	Surface	Mercury	1.66E-01	0.01	0.07		0.08	3.74%
26	1	Surface	Nickel	1.76E+01	0.01	0.16	0.00	0.17	8.16%
26	1	Surface	Uranium	1.29E+02	0.55	0.38	0.00	0.93	44.94%
26	1	Surface	**Totals**		**1.15**	**0.93**	**0.01**	**2.08**	
26	1	Surface	**Percent**		**55.09%**	**44.51%**	**0.40%**		
26	2	Surface	Aluminum	2.17E+04	0.28	0.19	0.02	0.49	0.47%
26	2	Surface	Arsenic	4.72E+01	2.01	0.85	0.02	2.87	2.73%
26	2	Surface	Barium	1.49E+02	0.01	0.10	0.00	0.11	0.10%
26	2	Surface	Beryllium	9.69E+00	0.06	0.87	0.00	0.93	0.89%
26	2	Surface	Cadmium	2.38E+00	0.03	0.02	0.00	0.05	0.05%
26	2	Surface	Chromium	3.90E+01	0.00	0.02		0.02	0.02%
26	2	Surface	Cobalt	5.20E+01	2.22	1.55	0.04	3.81	3.62%
26	2	Surface	Copper	1.31E+02	0.04	0.03		0.07	0.07%
26	2	Surface	Iron	5.32E+04	0.97	0.68		1.65	1.57%
26	2	Surface	Nickel	1.13E+02	0.07	1.01	0.01	1.09	1.04%
26	2	Surface	Thallium	1.39E+01	2.22	1.56		3.78	3.59%
26	2	Surface	Uranium	6.46E+02	2.75	1.93	0.01	4.69	4.46%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
26	2	Surface	Vanadium	3.13E+01	5.71	79.91	0.00	85.62	81.41%
26	2	Surface	**Totals**		**16.37**	**88.70**	**0.10**	**105.17**	
26	2	Surface	**Percent**		**15.57%**	**84.34%**	**0.10%**		
26	3	Surface	Aluminum	9.55E+03	0.12	0.09	0.01	0.22	0.20%
26	3	Surface	Antimony	1.40E+00	0.04	0.21		0.25	0.23%
26	3	Surface	Arsenic	5.09E+01	2.17	0.91	0.02	3.10	2.80%
26	3	Surface	Barium	4.48E+02	0.03	0.29	0.00	0.32	0.29%
26	3	Surface	Beryllium	2.54E+00	0.02	0.23	0.00	0.24	0.22%
26	3	Surface	Cadmium	2.34E+00	0.03	0.02	0.00	0.05	0.04%
26	3	Surface	Chromium	3.25E+01	0.00	0.01		0.02	0.01%
26	3	Surface	Cobalt	1.21E+01	0.52	0.36	0.01	0.89	0.80%
26	3	Surface	Mercury	3.87E-01	0.02	0.16		0.18	0.16%
26	3	Surface	Naphthalene	1.32E+00	0.00	0.00	0.07	0.07	0.07%
26	3	Surface	Nickel	2.97E+01	0.02	0.27	0.00	0.29	0.26%
26	3	Surface	Silver	2.59E+01	0.07	0.93		0.99	0.90%
26	3	Surface	Thallium	6.00E-01	0.10	0.07		0.16	0.15%
26	3	Surface	Uranium	9.88E+01	0.42	0.29	0.00	0.72	0.65%
26	3	Surface	Vanadium	3.77E+01	6.88	96.33	0.00	103.21	93.23%
26	3	Surface	**Totals**		**10.43**	**100.16**	**0.12**	**110.70**	
26	3	Surface	**Percent**		**9.42%**	**90.48%**	**0.11%**		
26	4	Surface	Aluminum	1.07E+04	0.14	0.10	0.01	0.24	2.47%
26	4	Surface	Antimony	6.00E-01	0.02	0.09		0.11	1.11%
26	4	Surface	Beryllium	6.91E-01	0.00	0.06	0.00	0.07	0.68%
26	4	Surface	Cadmium	1.99E+00	0.03	0.01	0.00	0.04	0.41%
26	4	Surface	Chromium	8.57E+01	0.00	0.04		0.04	0.41%
26	4	Surface	Copper	1.16E+02	0.04	0.03		0.06	0.64%
26	4	Surface	Mercury	3.07E+00	0.13	1.31		1.44	14.68%
26	4	Surface	Nickel	7.54E+01	0.05	0.68	0.00	0.73	7.42%
26	4	Surface	Uranium	9.75E+02	4.16	2.91	0.02	7.08	72.18%
26	4	Surface	**Totals**		**4.56**	**5.22**	**0.03**	**9.81**	
26	4	Surface	**Percent**		**46.47%**	**53.21%**	**0.32%**		
47	1	Surface	Aluminum	1.50E+04	0.19	0.13	0.01	0.34	5.10%
47	1	Surface	Antimony	9.00E-01	0.03	0.13		0.16	2.44%
47	1	Surface	Arsenic	4.52E+01	1.93	0.81	0.01	2.75	41.23%
47	1	Surface	Beryllium	7.00E-01	0.00	0.06	0.00	0.07	1.01%
47	1	Surface	Cadmium	4.25E+00	0.05	0.03	0.00	0.09	1.30%
47	1	Surface	Chromium	5.39E+01	0.00	0.02		0.03	0.38%
47	1	Surface	Cobalt	1.43E+01	0.61	0.43	0.01	1.05	15.70%
47	1	Surface	Iron	2.95E+04	0.54	0.38		0.92	13.73%
47	1	Surface	Naphthalene	1.90E+00	0.00	0.00	0.10	0.11	1.62%
47	1	Surface	Nickel	8.25E+01	0.05	0.74	0.00	0.80	11.93%
47	1	Surface	Pyrene	1.11E+02	0.05	0.09	0.00	0.14	2.04%
47	1	Surface	Uranium	3.23E+01	0.14	0.10	0.00	0.23	3.52%
47	1	Surface	**Totals**		**3.59**	**2.92**	**0.15**	**6.67**	
47	1	Surface	**Percent**		**53.87%**	**43.84%**	**2.30%**		
74	1	Surface	**Totals**					**0.00**	
74	1	Surface	**Percent**						
75	1	Surface	Cadmium	1.10E+00	0.01	0.01	0.00	0.02	2.08%
75	1	Surface	Chromium	7.17E+01	0.00	0.03		0.03	3.10%
75	1	Surface	Copper	3.15E+02	0.10	0.07		0.17	15.81%
75	1	Surface	Nickel	8.87E+01	0.06	0.79	0.00	0.86	79.02%
75	1	Surface	**Totals**		**0.17**	**0.91**	**0.01**	**1.08**	
75	1	Surface	**Percent**		**15.89%**	**83.62%**	**0.49%**		
76	1	Surface	Barium	2.69E+02	0.02	0.17	0.00	0.19	100.00%

SWMU = solid waste management unit
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COPC = chemical of potential concern
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HI = hazard index

Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
76	1	Surface	**Totals**		**0.02**	**0.17**	**0.00**	**0.19**	
76	1	Surface	**Percent**		**8.97%**	**89.68%**	**1.35%**		
78	1	Surface	Cadmium	2.36E+00	0.03	0.02	0.00	0.05	4.08%
78	1	Surface	Chromium	3.75E+01	0.00	0.02		0.02	1.49%
78	1	Surface	Naphthalene	1.60E+01	0.01	0.04	0.86	0.91	76.87%
78	1	Surface	Nickel	2.15E+01	0.01	0.19	0.00	0.21	17.56%
78	1	Surface	**Totals**		**0.05**	**0.26**	**0.86**	**1.18**	
78	1	Surface	**Percent**		**4.61%**	**22.22%**	**73.16%**		
80	1	Surface	Antimony	9.10E-01	0.03	0.14		0.16	0.39%
80	1	Surface	Beryllium	7.80E-01	0.00	0.07	0.00	0.07	0.18%
80	1	Surface	Chromium	1.65E+02	0.00	0.08		0.08	0.18%
80	1	Surface	Mercury	4.50E-01	0.02	0.19		0.21	0.50%
80	1	Surface	Uranium	5.72E+03	24.39	17.08	0.09	41.56	98.75%
80	1	Surface	**Totals**		**24.45**	**17.55**	**0.09**	**42.09**	
80	1	Surface	**Percent**		**58.09%**	**41.69%**	**0.22%**		
81	1	Surface	Aluminum	9.57E+03	0.12	0.09	0.01	0.22	0.41%
81	1	Surface	Arsenic	1.03E+01	0.44	0.18	0.00	0.62	1.18%
81	1	Surface	Beryllium	7.57E-01	0.00	0.07	0.00	0.07	0.14%
81	1	Surface	Chromium	8.62E+01	0.00	0.04		0.04	0.08%
81	1	Surface	Mercury	8.33E+00	0.36	3.55		3.91	7.39%
81	1	Surface	Nickel	7.29E+01	0.05	0.65	0.00	0.70	1.33%
81	1	Surface	Silver	2.70E+00	0.01	0.10		0.10	0.20%
81	1	Surface	Uranium	6.50E+03	27.70	19.39	0.10	47.20	89.28%
81	1	Surface	**Totals**		**28.67**	**24.07**	**0.12**	**52.86**	
81	1	Surface	**Percent**		**54.24%**	**45.53%**	**0.23%**		
99	1	Surface	Chromium	5.51E+01	0.00	0.03		0.03	0.46%
99	1	Surface	Mercury	9.53E+00	0.41	4.06		4.47	80.27%
99	1	Surface	Nickel	7.02E+01	0.04	0.63	0.00	0.68	12.16%
99	1	Surface	Silver	1.03E+01	0.03	0.37		0.40	7.10%
99	1	Surface	**Totals**		**0.48**	**5.08**	**0.00**	**5.57**	
99	1	Surface	**Percent**		**8.59%**	**91.35%**	**0.07%**		
138	1	Surface	Antimony	5.39E+00	0.17	0.80		0.98	10.96%
138	1	Surface	Arsenic	1.06E+01	0.45	0.19	0.00	0.65	7.25%
138	1	Surface	Cadmium	5.42E+00	0.07	0.04	0.00	0.11	1.24%
138	1	Surface	Chromium	5.39E+01	0.00	0.02		0.03	0.28%
138	1	Surface	Mercury	1.30E+01	0.55	5.54		6.09	68.31%
138	1	Surface	Nickel	7.04E+01	0.04	0.63	0.00	0.68	7.61%
138	1	Surface	Silver	1.01E+01	0.03	0.36		0.39	4.34%
138	1	Surface	**Totals**		**1.32**	**7.59**	**0.01**	**8.91**	
138	1	Surface	**Percent**		**14.80%**	**85.09%**	**0.11%**		
138	2	Surface	Nickel	7.99E+01	0.05	0.71	0.00	0.77	65.79%
138	2	Surface	Silver	1.04E+01	0.03	0.37		0.40	34.21%
138	2	Surface	**Totals**		**0.08**	**1.09**	**0.00**	**1.17**	
138	2	Surface	**Percent**		**6.64%**	**92.99%**	**0.36%**		
153	1	Surface	**Totals**					**0.00**	
153	1	Surface	**Percent**						
154	1	Surface	Arsenic	1.52E+01	0.65	0.27	0.00	0.92	42.46%
154	1	Surface	Chromium	4.28E+01	0.00	0.02		0.02	0.92%
154	1	Surface	Nickel	9.89E+01	0.06	0.88	0.01	0.95	43.86%
154	1	Surface	Uranium	3.82E+01	0.16	0.11	0.00	0.28	12.76%
154	1	Surface	**Totals**		**0.87**	**1.29**	**0.01**	**2.17**	
154	1	Surface	**Percent**		**40.16%**	**59.35%**	**0.49%**		
154	2	Surface	**Totals**					**0.00**	
154	2	Surface	**Percent**						

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
155	1	Surface	Antimony	3.65E+00	0.12	0.55		0.66	35.95%
155	1	Surface	Chromium	3.47E+01	0.00	0.02		0.02	0.88%
155	1	Surface	Nickel	7.65E+01	0.05	0.68	0.00	0.74	40.08%
155	1	Surface	Silver	1.11E+01	0.03	0.40		0.42	23.09%
155	1	Surface	**Totals**		**0.19**	**1.64**	**0.00**	**1.84**	
155	1	Surface	**Percent**		**10.56%**	**89.22%**	**0.22%**		
156	1	Surface	Chromium	4.90E+01	0.00	0.02		0.02	0.38%
156	1	Surface	Manganese	2.83E+03	0.26	0.14	0.27	0.68	11.10%
156	1	Surface	Mercury	9.87E+00	0.42	4.21		4.63	76.00%
156	1	Surface	Nickel	6.16E+01	0.04	0.55	0.00	0.59	9.76%
156	1	Surface	Uranium	2.32E+01	0.10	0.07	0.00	0.17	2.77%
156	1	Surface	**Totals**		**0.82**	**4.99**	**0.28**	**6.09**	
156	1	Surface	**Percent**		**13.44%**	**82.03%**	**4.53%**		
158	1	Surface	Antimony	5.23E-01	0.02	0.08		0.09	1.16%
158	1	Surface	Arsenic	1.01E+01	0.43	0.18	0.00	0.62	7.55%
158	1	Surface	Barium	2.19E+02	0.01	0.14	0.00	0.16	1.91%
158	1	Surface	Chromium	6.07E+01	0.00	0.03		0.03	0.35%
158	1	Surface	Cobalt	1.62E+01	0.69	0.48	0.01	1.19	14.57%
158	1	Surface	Manganese	9.91E+02	0.09	0.05	0.10	0.24	2.90%
158	1	Surface	Mercury	1.05E+01	0.45	4.46		4.90	60.11%
158	1	Surface	Nickel	7.28E+01	0.05	0.65	0.00	0.70	8.61%
158	1	Surface	Thallium	3.12E-01	0.05	0.03		0.08	1.04%
158	1	Surface	Uranium	2.03E+01	0.09	0.06	0.00	0.15	1.81%
158	1	Surface	**Totals**		**1.87**	**6.17**	**0.12**	**8.16**	
158	1	Surface	**Percent**		**22.96%**	**75.60%**	**1.44%**		
160	1	Surface	Antimony	6.80E-01	0.02	0.10		0.12	100.00%
160	1	Surface	**Totals**		**0.02**	**0.10**		**0.12**	
160	1	Surface	**Percent**		**17.65%**	**82.35%**			
163	1	Surface	Chromium	4.94E+01	0.00	0.02		0.02	100.00%
163	1	Surface	**Totals**		**0.00**	**0.02**		**0.02**	
163	1	Surface	**Percent**		**1.82%**	**98.18%**			
165	1	Surface	Antimony	2.20E+00	0.07	0.33		0.40	5.44%
165	1	Surface	Arsenic	6.35E+01	2.71	1.14	0.02	3.86	52.70%
165	1	Surface	Barium	5.84E+02	0.04	0.37	0.01	0.42	5.68%
165	1	Surface	Beryllium	6.82E-01	0.00	0.06	0.00	0.07	0.89%
165	1	Surface	Chromium	3.74E+01	0.00	0.02		0.02	0.24%
165	1	Surface	Mercury	3.78E-01	0.02	0.16		0.18	2.42%
165	1	Surface	Naphthalene	1.61E+00	0.00	0.00	0.09	0.09	1.25%
165	1	Surface	Nickel	3.47E+01	0.02	0.31	0.00	0.33	4.56%
165	1	Surface	Silver	3.09E+01	0.08	1.11		1.19	16.18%
165	1	Surface	Uranium	1.08E+02	0.46	0.32	0.00	0.78	10.65%
165	1	Surface	**Totals**		**3.40**	**3.82**	**0.12**	**7.33**	
165	1	Surface	**Percent**		**46.31%**	**52.10%**	**1.59%**		
169	1	Surface	Aluminum	1.42E+04	0.18	0.13	0.01	0.32	2.49%
169	1	Surface	Antimony	1.30E+00	0.04	0.19		0.24	1.82%
169	1	Surface	Arsenic	2.03E+01	0.87	0.36	0.01	1.24	9.55%
169	1	Surface	Beryllium	8.00E-01	0.01	0.07	0.00	0.08	0.59%
169	1	Surface	Chromium	2.15E+02	0.00	0.10		0.10	0.78%
169	1	Surface	Copper	3.74E+02	0.12	0.08		0.20	1.57%
169	1	Surface	Iron	4.16E+04	0.76	0.53		1.29	9.98%
169	1	Surface	Mercury	7.87E+00	0.34	3.35		3.69	28.52%
169	1	Surface	Nickel	5.49E+02	0.35	4.91	0.03	5.29	40.90%
169	1	Surface	Thallium	4.60E-01	0.07	0.05		0.12	0.97%
169	1	Surface	Uranium	5.03E+01	0.21	0.15	0.00	0.37	2.82%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
169	1	Surface	**Totals**		**2.95**	**9.94**	**0.05**	**12.93**	
169	1	Surface	**Percent**		**22.79%**	**76.82%**	**0.39%**		
170	1	Surface	**Totals**					**0.00**	
170	1	Surface	**Percent**						
176	1	Surface	Arsenic	4.86E+01	2.07	0.87	0.02	2.95	70.88%
176	1	Surface	Chromium	4.27E+01	0.00	0.02		0.02	0.48%
176	1	Surface	Nickel	1.07E+02	0.07	0.96	0.01	1.03	24.79%
176	1	Surface	Uranium	2.21E+01	0.09	0.07	0.00	0.16	3.85%
176	1	Surface	**Totals**		**2.23**	**1.91**	**0.02**	**4.17**	
176	1	Surface	**Percent**		**53.56%**	**45.92%**	**0.52%**		
180	1	Surface	Antimony	5.80E-01	0.02	0.09		0.11	1.12%
180	1	Surface	Arsenic	7.48E+01	3.19	1.34	0.02	4.55	48.37%
180	1	Surface	Chromium	5.54E+01	0.00	0.03		0.03	0.28%
180	1	Surface	Mercury	8.28E+00	0.35	3.53		3.88	41.26%
180	1	Surface	Nickel	8.77E+01	0.06	0.78	0.00	0.85	8.98%
180	1	Surface	**Totals**		**3.62**	**5.76**	**0.03**	**9.41**	
180	1	Surface	**Percent**		**38.43%**	**61.27%**	**0.30%**		
180	2	Surface	Antimony	4.58E-01	0.01	0.07		0.08	4.92%
180	2	Surface	Arsenic	1.27E+01	0.54	0.23	0.00	0.77	45.68%
180	2	Surface	Chromium	4.46E+01	0.00	0.02		0.02	1.24%
180	2	Surface	Nickel	8.42E+01	0.05	0.75	0.00	0.81	48.16%
180	2	Surface	**Totals**		**0.61**	**1.07**	**0.01**	**1.68**	
180	2	Surface	**Percent**		**36.08%**	**63.41%**	**0.51%**		
180	3	Surface	Arsenic	1.34E+01	0.57	0.24	0.00	0.81	42.21%
180	3	Surface	Chromium	4.69E+01	0.00	0.02		0.02	1.14%
180	3	Surface	Nickel	6.77E+01	0.04	0.61	0.00	0.65	33.93%
180	3	Surface	Silver	1.14E+01	0.03	0.41		0.44	22.72%
180	3	Surface	**Totals**		**0.64**	**1.27**	**0.01**	**1.92**	
180	3	Surface	**Percent**		**33.35%**	**66.24%**	**0.41%**		
180	4	Surface	Arsenic	1.15E+01	0.49	0.21	0.00	0.70	0.52%
180	4	Surface	Barium	2.13E+02	0.01	0.14	0.00	0.15	0.11%
180	4	Surface	Beryllium	1.60E+00	0.01	0.14	0.00	0.15	0.11%
180	4	Surface	Chromium	6.00E+01	0.00	0.03		0.03	0.02%
180	4	Surface	Iron	1.54E+04	0.28	0.20		0.48	0.35%
180	4	Surface	Manganese	7.09E+02	0.06	0.04	0.07	0.17	0.12%
180	4	Surface	Nickel	6.46E+01	0.04	0.58	0.00	0.62	0.46%
180	4	Surface	Silver	9.68E+00	0.02	0.35		0.37	0.27%
180	4	Surface	Vanadium	4.85E+01	8.86	124.02	0.00	132.88	98.03%
180	4	Surface	**Totals**		**9.79**	**125.69**	**0.08**	**135.55**	
180	4	Surface	**Percent**		**7.22%**	**92.72%**	**0.06%**		
181	1	Surface	Chromium	2.29E+01	0.00	0.01		0.01	1.11%
181	1	Surface	Thallium	3.50E+00	0.56	0.39		0.95	98.89%
181	1	Surface	**Totals**		**0.56**	**0.40**		**0.96**	
181	1	Surface	**Percent**		**58.19%**	**41.81%**			
194	1	Surface	Antimony	1.50E+00	0.05	0.22		0.27	6.15%
194	1	Surface	Chromium	3.87E+01	0.00	0.02		0.02	0.41%
194	1	Surface	Mercury	6.71E+00	0.29	2.86		3.15	71.20%
194	1	Surface	Nickel	5.84E+01	0.04	0.52	0.00	0.56	12.75%
194	1	Surface	Silver	1.09E+01	0.03	0.39		0.42	9.49%
194	1	Surface	**Totals**		**0.40**	**4.02**	**0.00**	**4.42**	
194	1	Surface	**Percent**		**9.04%**	**90.89%**	**0.07%**		
194	2	Surface	Chromium	5.96E+01	0.00	0.03		0.03	4.00%
194	2	Surface	Silver	1.31E+01	0.03	0.47		0.50	72.27%
194	2	Surface	Uranium	2.28E+01	0.10	0.07	0.00	0.17	23.74%

SWMU = solid waste management unit
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HI = hazard index

Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	2	Surface	**Totals**		**0.13**	**0.57**	**0.00**	**0.70**	
194	2	Surface	**Percent**		**18.82%**	**81.13%**	**0.05%**		
194	3	Surface	Antimony	6.90E-01	0.02	0.10		0.12	7.57%
194	3	Surface	Arsenic	1.46E+01	0.62	0.26	0.00	0.89	53.93%
194	3	Surface	Chromium	3.90E+01	0.00	0.02		0.02	1.10%
194	3	Surface	Nickel	6.40E+01	0.04	0.57	0.00	0.62	37.39%
194	3	Surface	**Totals**		**0.69**	**0.96**	**0.01**	**1.65**	
194	3	Surface	**Percent**		**41.62%**	**57.89%**	**0.49%**		
194	4	Surface	Chromium	4.84E+01	0.00	0.02		0.02	0.43%
194	4	Surface	Mercury	8.92E+00	0.38	3.80		4.18	78.57%
194	4	Surface	Nickel	6.91E+01	0.04	0.62	0.00	0.67	12.51%
194	4	Surface	Silver	1.18E+01	0.03	0.42		0.45	8.49%
194	4	Surface	**Totals**		**0.45**	**4.86**	**0.00**	**5.32**	
194	4	Surface	**Percent**		**8.55%**	**91.38%**	**0.07%**		
194	5	Surface	Chromium	4.58E+01	0.00	0.02		0.02	0.40%
194	5	Surface	Mercury	8.69E+00	0.37	3.70		4.07	76.86%
194	5	Surface	Nickel	7.54E+01	0.05	0.68	0.00	0.73	13.72%
194	5	Surface	Silver	1.25E+01	0.03	0.45		0.48	9.01%
194	5	Surface	**Totals**		**0.45**	**4.85**	**0.00**	**5.30**	
194	5	Surface	**Percent**		**8.51%**	**91.42%**	**0.08%**		
194	6	Surface	Chromium	3.70E+01	0.00	0.02		0.02	1.21%
194	6	Surface	Manganese	1.08E+03	0.10	0.06	0.10	0.26	18.00%
194	6	Surface	Nickel	8.06E+01	0.05	0.72	0.00	0.78	54.29%
194	6	Surface	Silver	9.89E+00	0.03	0.35		0.38	26.50%
194	6	Surface	**Totals**		**0.18**	**1.15**	**0.11**	**1.43**	
194	6	Surface	**Percent**		**12.28%**	**80.17%**	**7.55%**		
194	7	Surface	Chromium	5.32E+01	0.00	0.02		0.02	1.99%
194	7	Surface	Nickel	7.71E+01	0.05	0.69	0.00	0.74	59.59%
194	7	Surface	Silver	1.25E+01	0.03	0.45		0.48	38.41%
194	7	Surface	**Totals**		**0.08**	**1.16**	**0.00**	**1.25**	
194	7	Surface	**Percent**		**6.55%**	**93.12%**	**0.33%**		
194	8	Surface	Chromium	5.36E+01	0.00	0.02		0.03	11.60%
194	8	Surface	Manganese	8.00E+02	0.07	0.04	0.08	0.19	88.40%
194	8	Surface	**Totals**		**0.07**	**0.07**	**0.08**	**0.22**	
194	8	Surface	**Percent**		**34.05%**	**30.34%**	**35.61%**		
194	9	Surface	Arsenic	1.14E+01	0.49	0.20	0.00	0.69	96.64%
194	9	Surface	Chromium	5.17E+01	0.00	0.02		0.02	3.36%
194	9	Surface	**Totals**		**0.49**	**0.23**	**0.00**	**0.72**	
194	9	Surface	**Percent**		**67.76%**	**31.73%**	**0.51%**		
194	10	Surface	Arsenic	1.22E+01	0.52	0.22	0.00	0.74	49.67%
194	10	Surface	Chromium	3.63E+01	0.00	0.02		0.02	1.14%
194	10	Surface	Nickel	7.60E+01	0.05	0.68	0.00	0.73	49.19%
194	10	Surface	**Totals**		**0.57**	**0.91**	**0.01**	**1.49**	
194	10	Surface	**Percent**		**38.07%**	**61.39%**	**0.53%**		
194	11	Surface	Chromium	3.27E+01	0.00	0.01		0.02	0.29%
194	11	Surface	Mercury	8.09E+00	0.34	3.45		3.79	71.71%
194	11	Surface	Nickel	1.01E+02	0.06	0.90	0.01	0.97	18.36%
194	11	Surface	Silver	1.33E+01	0.03	0.48		0.51	9.64%
194	11	Surface	**Totals**		**0.44**	**4.84**	**0.01**	**5.29**	
194	11	Surface	**Percent**		**8.38%**	**91.51%**	**0.10%**		
194	12	Surface	Chromium	6.34E+01	0.00	0.03		0.03	2.38%
194	12	Surface	Nickel	7.86E+01	0.05	0.70	0.00	0.76	60.78%
194	12	Surface	Silver	1.20E+01	0.03	0.43		0.46	36.85%
194	12	Surface	**Totals**		**0.08**	**1.16**	**0.00**	**1.25**	

SWMU = solid waste management unit
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Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	12	Surface	**Percent**		**6.53%**	**93.13%**	**0.34%**		
194	13	Surface	Chromium	4.77E+01	0.00	0.02		0.02	3.69%
194	13	Surface	Nickel	6.03E+01	0.04	0.54	0.00	0.58	96.31%
194	13	Surface	**Totals**		**0.04**	**0.56**	**0.00**	**0.60**	
194	13	Surface	**Percent**		**6.45%**	**93.01%**	**0.53%**		
194	14	Surface	Chromium	5.21E+01	0.00	0.02		0.02	0.63%
194	14	Surface	Mercury	8.14E+00	0.35	3.47		3.82	99.37%
194	14	Surface	**Totals**		**0.35**	**3.49**		**3.84**	
194	14	Surface	**Percent**		**9.04%**	**90.96%**			
194	15	Surface	Chromium	5.33E+01	0.00	0.02		0.02	5.93%
194	15	Surface	Silver	1.03E+01	0.03	0.37		0.40	94.07%
194	15	Surface	**Totals**		**0.03**	**0.39**		**0.42**	
194	15	Surface	**Percent**		**6.38%**	**93.62%**			
194	16	Surface	Antimony	7.40E-01	0.02	0.11		0.13	0.12%
194	16	Surface	Arsenic	1.15E+01	0.49	0.21	0.00	0.70	0.61%
194	16	Surface	Beryllium	8.70E-01	0.01	0.08	0.00	0.08	0.07%
194	16	Surface	Chromium	5.32E+01	0.00	0.02		0.02	0.02%
194	16	Surface	Nickel	7.20E+01	0.05	0.64	0.00	0.69	0.61%
194	16	Surface	Thallium	6.30E-01	0.10	0.07		0.17	0.15%
194	16	Surface	Vanadium	4.11E+01	7.51	105.10	0.00	112.60	98.42%
194	16	Surface	**Totals**		**8.17**	**106.23**	**0.01**	**114.41**	
194	16	Surface	**Percent**		**7.14%**	**92.85%**	**0.01%**		
194	17	Surface	Arsenic	1.16E+01	0.49	0.21	0.00	0.70	94.08%
194	17	Surface	Cadmium	1.10E+00	0.01	0.01	0.00	0.02	3.01%
194	17	Surface	Chromium	4.65E+01	0.00	0.02		0.02	2.91%
194	17	Surface	**Totals**		**0.51**	**0.24**	**0.00**	**0.75**	
194	17	Surface	**Percent**		**67.84%**	**31.59%**	**0.57%**		
194	18	Surface	Arsenic	1.06E+01	0.45	0.19	0.00	0.64	49.34%
194	18	Surface	Beryllium	7.40E-01	0.00	0.07	0.00	0.07	5.46%
194	18	Surface	Chromium	6.85E+01	0.00	0.03		0.03	2.46%
194	18	Surface	Nickel	5.78E+01	0.04	0.52	0.00	0.56	42.75%
194	18	Surface	**Totals**		**0.49**	**0.80**	**0.01**	**1.30**	
194	18	Surface	**Percent**		**37.80%**	**61.69%**	**0.51%**		
194	19	Surface	Arsenic	1.07E+01	0.46	0.19	0.00	0.65	52.62%
194	19	Surface	Chromium	4.84E+01	0.00	0.02		0.02	1.83%
194	19	Surface	Nickel	5.84E+01	0.04	0.52	0.00	0.56	45.55%
194	19	Surface	**Totals**		**0.49**	**0.74**	**0.01**	**1.24**	
194	19	Surface	**Percent**		**39.92%**	**59.55%**	**0.53%**		
194	20	Surface	Arsenic	1.18E+01	0.50	0.21	0.00	0.72	0.64%
194	20	Surface	Barium	3.26E+02	0.02	0.21	0.00	0.23	0.21%
194	20	Surface	Beryllium	1.10E+00	0.01	0.10	0.00	0.11	0.09%
194	20	Surface	Chromium	5.24E+01	0.00	0.02		0.02	0.02%
194	20	Surface	Cobalt	2.11E+01	0.90	0.63	0.02	1.55	1.38%
194	20	Surface	Manganese	2.29E+03	0.21	0.12	0.22	0.55	0.49%
194	20	Surface	Mercury	7.28E+00	0.31	3.10		3.41	3.05%
194	20	Surface	Nickel	6.57E+01	0.04	0.59	0.00	0.63	0.57%
194	20	Surface	Silver	1.22E+01	0.03	0.44		0.47	0.42%
194	20	Surface	Vanadium	3.81E+01	6.96	97.42	0.00	104.39	93.14%
194	20	Surface	**Totals**		**8.98**	**102.84**	**0.25**	**112.08**	
194	20	Surface	**Percent**		**8.02%**	**91.76%**	**0.22%**		
194	21	Surface	Antimony	9.30E-01	0.03	0.14		0.17	4.06%
194	21	Surface	Chromium	5.51E+01	0.00	0.03		0.03	0.62%
194	21	Surface	Mercury	6.62E+00	0.28	2.82		3.10	74.82%
194	21	Surface	Nickel	7.01E+01	0.04	0.63	0.00	0.68	16.30%

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Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	21	Surface	Thallium	6.40E-01	0.10	0.07		0.17	4.19%
194	21	Surface	**Totals**		**0.46**	**3.68**	**0.00**	**4.15**	
194	21	Surface	**Percent**		**11.08%**	**88.83%**	**0.09%**		
194	22	Surface	Chromium	4.90E+01	0.00	0.02		0.02	10.49%
194	22	Surface	Manganese	8.19E+02	0.07	0.04	0.08	0.20	89.51%
194	22	Surface	**Totals**		**0.08**	**0.06**	**0.08**	**0.22**	
194	22	Surface	**Percent**		**34.46%**	**29.49%**	**36.06%**		
194	23	Surface	Arsenic	1.16E+01	0.49	0.21	0.00	0.70	27.16%
194	23	Surface	Chromium	6.60E+01	0.00	0.03		0.03	1.19%
194	23	Surface	Iron	1.83E+04	0.33	0.23		0.57	21.94%
194	23	Surface	Nickel	8.77E+01	0.06	0.78	0.00	0.85	32.68%
194	23	Surface	Silver	1.15E+01	0.03	0.41		0.44	17.02%
194	23	Surface	**Totals**		**0.91**	**1.67**	**0.01**	**2.59**	
194	23	Surface	**Percent**		**35.26%**	**64.42%**	**0.32%**		
194	24	Surface	Chromium	5.02E+01	0.00	0.02		0.02	3.33%
194	24	Surface	Nickel	7.08E+01	0.05	0.63	0.00	0.68	96.67%
194	24	Surface	**Totals**		**0.05**	**0.66**	**0.00**	**0.71**	
194	24	Surface	**Percent**		**6.47%**	**92.99%**	**0.54%**		
194	25	Surface	Barium	3.00E+02	0.02	0.19	0.00	0.21	19.61%
194	25	Surface	Chromium	6.13E+01	0.00	0.03		0.03	2.63%
194	25	Surface	Manganese	9.96E+02	0.09	0.05	0.10	0.24	21.78%
194	25	Surface	Nickel	6.33E+01	0.04	0.57	0.00	0.61	55.99%
194	25	Surface	**Totals**		**0.15**	**0.84**	**0.10**	**1.09**	
194	25	Surface	**Percent**		**13.86%**	**76.80%**	**9.35%**		
194	26	Surface	Beryllium	7.00E-01	0.00	0.06	0.00	0.07	11.47%
194	26	Surface	Chromium	4.18E+01	0.00	0.02		0.02	3.33%
194	26	Surface	Silver	1.03E+01	0.03	0.37		0.39	67.14%
194	26	Surface	Thallium	3.90E-01	0.06	0.04		0.11	18.06%
194	26	Surface	**Totals**		**0.09**	**0.49**	**0.00**	**0.59**	
194	26	Surface	**Percent**		**15.92%**	**84.05%**	**0.03%**		
194	27	Surface	Chromium	5.22E+01	0.00	0.02		0.02	2.34%
194	27	Surface	Nickel	6.55E+01	0.04	0.59	0.00	0.63	60.49%
194	27	Surface	Silver	1.01E+01	0.03	0.36		0.39	37.18%
194	27	Surface	**Totals**		**0.07**	**0.97**	**0.00**	**1.04**	
194	27	Surface	**Percent**		**6.53%**	**93.13%**	**0.34%**		
194	28	Surface	Arsenic	1.20E+01	0.51	0.22	0.00	0.73	0.65%
194	28	Surface	Beryllium	7.10E-01	0.00	0.06	0.00	0.07	0.06%
194	28	Surface	Chromium	6.07E+01	0.00	0.03		0.03	0.03%
194	28	Surface	Manganese	1.14E+03	0.10	0.06	0.11	0.27	0.24%
194	28	Surface	Nickel	6.95E+01	0.04	0.62	0.00	0.67	0.59%
194	28	Surface	Silver	1.08E+01	0.03	0.39		0.41	0.36%
194	28	Surface	Vanadium	4.06E+01	7.42	103.82	0.00	111.23	98.07%
194	28	Surface	**Totals**		**8.11**	**105.19**	**0.12**	**113.42**	
194	28	Surface	**Percent**		**7.15%**	**92.75%**	**0.10%**		
194	29	Surface	Antimony	7.10E-01	0.02	0.11		0.13	11.14%
194	29	Surface	Chromium	5.06E+01	0.00	0.02		0.02	2.05%
194	29	Surface	Nickel	6.51E+01	0.04	0.58	0.00	0.63	54.36%
194	29	Surface	Silver	9.77E+00	0.02	0.35		0.37	32.45%
194	29	Surface	**Totals**		**0.09**	**1.06**	**0.00**	**1.15**	
194	29	Surface	**Percent**		**7.77%**	**91.93%**	**0.30%**		
194	30	Surface	Chromium	5.66E+01	0.00	0.03		0.03	0.51%
194	30	Surface	Mercury	8.80E+00	0.38	3.75		4.13	79.34%
194	30	Surface	Nickel	6.99E+01	0.04	0.63	0.00	0.67	12.96%
194	30	Surface	Silver	9.76E+00	0.02	0.35		0.37	7.20%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	30	Surface	**Totals**		**0.45**	**4.75**	**0.00**	**5.20**	
194	30	Surface	**Percent**		**8.56%**	**91.37%**	**0.07%**		
194	31	Surface	**Totals**					**0.00**	
194	31	Surface	**Percent**						
195	1	Surface	Chromium	6.33E+01	0.00	0.03		0.03	2.77%
195	1	Surface	Nickel	7.02E+01	0.04	0.63	0.00	0.68	63.51%
195	1	Surface	Silver	9.37E+00	0.02	0.34		0.36	33.72%
195	1	Surface	**Totals**		**0.07**	**0.99**	**0.00**	**1.07**	
195	1	Surface	**Percent**		**6.51%**	**93.14%**	**0.35%**		
195	2	Surface	Chromium	4.52E+01	0.00	0.02		0.02	5.49%
195	2	Surface	Silver	9.48E+00	0.02	0.34		0.36	94.51%
195	2	Surface	**Totals**		**0.02**	**0.36**		**0.38**	
195	2	Surface	**Percent**		**6.40%**	**93.60%**			
195	3	Surface	Chromium	5.03E+01	0.00	0.02		0.02	4.47%
195	3	Surface	Nickel	5.22E+01	0.03	0.47	0.00	0.50	95.53%
195	3	Surface	**Totals**		**0.03**	**0.49**	**0.00**	**0.53**	
195	3	Surface	**Percent**		**6.41%**	**93.06%**	**0.53%**		
195	4	Surface	Chromium	5.29E+01	0.00	0.02		0.02	3.96%
195	4	Surface	Nickel	6.23E+01	0.04	0.56	0.00	0.60	96.04%
195	4	Surface	**Totals**		**0.04**	**0.58**	**0.00**	**0.63**	
195	4	Surface	**Percent**		**6.44%**	**93.03%**	**0.53%**		
195	5	Surface	Chromium	5.74E+01	0.00	0.03		0.03	3.32%
195	5	Surface	Nickel	8.11E+01	0.05	0.73	0.00	0.78	96.68%
195	5	Surface	**Totals**		**0.05**	**0.75**	**0.00**	**0.81**	
195	5	Surface	**Percent**		**6.47%**	**92.99%**	**0.54%**		
195	6	Surface	Chromium	4.45E+01	0.00	0.02		0.02	2.42%
195	6	Surface	Nickel	8.71E+01	0.06	0.78	0.00	0.84	97.58%
195	6	Surface	**Totals**		**0.06**	**0.80**	**0.00**	**0.86**	
195	6	Surface	**Percent**		**6.51%**	**92.95%**	**0.54%**		
195	7	Surface	Chromium	4.93E+01	0.00	0.02		0.02	6.93%
195	7	Surface	Silver	8.06E+00	0.02	0.29		0.31	93.07%
195	7	Surface	**Totals**		**0.02**	**0.31**		**0.33**	
195	7	Surface	**Percent**		**6.33%**	**93.67%**			
195	8	Surface	Arsenic	1.16E+01	0.49	0.21	0.00	0.70	0.62%
195	8	Surface	Beryllium	7.40E-01	0.00	0.07	0.00	0.07	0.06%
195	8	Surface	Chromium	6.79E+01	0.00	0.03		0.03	0.03%
195	8	Surface	Cobalt	1.82E+01	0.78	0.54	0.01	1.33	1.17%
195	8	Surface	Nickel	7.01E+01	0.04	0.63	0.00	0.68	0.60%
195	8	Surface	Vanadium	4.04E+01	7.38	103.31	0.00	110.69	97.52%
195	8	Surface	**Totals**		**8.70**	**104.78**	**0.02**	**113.50**	
195	8	Surface	**Percent**		**7.66%**	**92.32%**	**0.02%**		
195	9	Surface	Chromium	6.08E+01	0.00	0.03		0.03	3.59%
195	9	Surface	Nickel	7.93E+01	0.05	0.71	0.00	0.76	96.41%
195	9	Surface	**Totals**		**0.05**	**0.74**	**0.00**	**0.79**	
195	9	Surface	**Percent**		**6.46%**	**93.01%**	**0.53%**		
195	10	Surface	Chromium	4.51E+01	0.00	0.02		0.02	1.70%
195	10	Surface	Nickel	7.40E+01	0.05	0.66	0.00	0.71	57.67%
195	10	Surface	Silver	1.31E+01	0.03	0.47		0.50	40.63%
195	10	Surface	**Totals**		**0.08**	**1.15**	**0.00**	**1.24**	
195	10	Surface	**Percent**		**6.56%**	**93.12%**	**0.32%**		
195	11	Surface	Aluminum	2.81E+04	0.36	0.25	0.03	0.64	0.29%
195	11	Surface	Arsenic	1.35E+01	0.57	0.24	0.00	0.82	0.37%
195	11	Surface	Barium	4.53E+02	0.03	0.29	0.00	0.32	0.14%

SWMU = solid waste management unit
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HI = hazard index

Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
195	11	Surface	Chromium	5.05E+01	0.00	0.02		0.02	0.01%
195	11	Surface	Cobalt	2.77E+01	1.18	0.83	0.02	2.03	0.91%
195	11	Surface	Iron	1.97E+04	0.36	0.25		0.61	0.27%
195	11	Surface	Nickel	6.77E+01	0.04	0.61	0.00	0.65	0.29%
195	11	Surface	Thallium	6.60E-01	0.11	0.07		0.18	0.08%
195	11	Surface	Vanadium	7.97E+01	14.56	203.80	0.00	218.36	97.64%
195	11	Surface	**Totals**		**17.21**	**206.36**	**0.07**	**223.64**	
195	11	Surface	**Percent**		**7.69%**	**92.28%**	**0.03%**		
195	12	Surface	Beryllium	7.50E-01	0.00	0.07	0.00	0.07	9.51%
195	12	Surface	Chromium	7.04E+01	0.00	0.03		0.03	4.34%
195	12	Surface	Nickel	6.78E+01	0.04	0.61	0.00	0.65	86.15%
195	12	Surface	**Totals**		**0.05**	**0.71**	**0.00**	**0.76**	
195	12	Surface	**Percent**		**6.42%**	**93.08%**	**0.50%**		
195	13	Surface	Chromium	6.55E+01	0.00	0.03		0.03	4.40%
195	13	Surface	Nickel	6.91E+01	0.04	0.62	0.00	0.67	95.60%
195	13	Surface	**Totals**		**0.04**	**0.65**	**0.00**	**0.70**	
195	13	Surface	**Percent**		**6.42%**	**93.05%**	**0.53%**		
195	14	Surface	Chromium	5.94E+01	0.00	0.03		0.03	3.93%
195	14	Surface	Nickel	7.04E+01	0.04	0.63	0.00	0.68	96.07%
195	14	Surface	**Totals**		**0.05**	**0.66**	**0.00**	**0.71**	
195	14	Surface	**Percent**		**6.44%**	**93.03%**	**0.53%**		
195	15	Surface	Chromium	4.82E+01	0.00	0.02		0.02	100.00%
195	15	Surface	**Totals**		**0.00**	**0.02**		**0.02**	
195	15	Surface	**Percent**		**1.82%**	**98.18%**			
195	16	Surface	Chromium	4.45E+01	0.00	0.02		0.02	2.57%
195	16	Surface	Nickel	8.16E+01	0.05	0.73	0.00	0.79	97.43%
195	16	Surface	**Totals**		**0.05**	**0.75**	**0.00**	**0.81**	
195	16	Surface	**Percent**		**6.51%**	**92.95%**	**0.54%**		
195	17	Surface	Chromium	8.22E+01	0.00	0.04		0.04	2.86%
195	17	Surface	Mercury	4.17E-01	0.02	0.18		0.20	14.57%
195	17	Surface	Nickel	5.93E+01	0.04	0.53	0.00	0.57	42.65%
195	17	Surface	Silver	1.01E+01	0.03	0.36		0.39	28.99%
195	17	Surface	Thallium	5.40E-01	0.09	0.06		0.15	10.93%
195	17	Surface	**Totals**		**0.17**	**1.17**	**0.00**	**1.34**	
195	17	Surface	**Percent**		**12.57%**	**87.19%**	**0.24%**		
196	1	Surface	Antimony	5.90E-01	0.02	0.09		0.11	1.89%
196	1	Surface	Chromium	1.96E+01	0.00	0.01		0.01	0.16%
196	1	Surface	Nickel	5.56E+02	0.36	4.98	0.03	5.36	94.95%
196	1	Surface	Uranium	2.33E+01	0.10	0.07	0.00	0.17	3.00%
196	1	Surface	**Totals**		**0.47**	**5.14**	**0.03**	**5.65**	
196	1	Surface	**Percent**		**8.39%**	**91.08%**	**0.53%**		
196	2	Surface	Barium	2.02E+02	0.01	0.13	0.00	0.14	15.74%
196	2	Surface	Cadmium	2.53E+00	0.03	0.02	0.00	0.05	5.65%
196	2	Surface	Chromium	2.07E+01	0.00	0.01		0.01	1.06%
196	2	Surface	Nickel	7.36E+01	0.05	0.66	0.00	0.71	77.56%
196	2	Surface	**Totals**		**0.09**	**0.82**	**0.01**	**0.92**	
196	2	Surface	**Percent**		**10.11%**	**89.12%**	**0.78%**		
200	1	Surface	Antimony	5.60E-01	0.02	0.08		0.10	2.16%
200	1	Surface	Chromium	5.75E+01	0.00	0.03		0.03	0.57%
200	1	Surface	Mercury	6.71E+00	0.29	2.86		3.15	66.84%
200	1	Surface	Nickel	1.28E+02	0.08	1.15	0.01	1.23	26.22%
200	1	Surface	Uranium	2.73E+01	0.12	0.08	0.00	0.20	4.21%
200	1	Surface	**Totals**		**0.50**	**4.20**	**0.01**	**4.71**	
200	1	Surface	**Percent**		**10.68%**	**89.17%**	**0.15%**		

SWMU = solid waste management unit
EU = exposure unit
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Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	1	Surface	Aluminum	1.48E+04	0.19	0.13	0.01	0.34	0.16%
204	1	Surface	Beryllium	1.36E+00	0.01	0.12	0.00	0.13	0.06%
204	1	Surface	Cadmium	2.73E+00	0.03	0.02	0.00	0.06	0.03%
204	1	Surface	Chromium	7.40E+01	0.00	0.03		0.03	0.02%
204	1	Surface	Iron	4.19E+04	0.77	0.54		1.30	0.62%
204	1	Surface	Vanadium	7.55E+01	13.79	193.06	0.00	206.85	99.11%
204	1	Surface	**Totals**		**14.79**	**193.90**	**0.02**	**208.71**	
204	1	Surface	**Percent**		**7.09%**	**92.90%**	**0.01%**		
204	2	Surface	Aluminum	1.37E+04	0.18	0.12	0.01	0.31	97.37%
204	2	Surface	Chromium	1.80E+01	0.00	0.01		0.01	2.63%
204	2	Surface	**Totals**		**0.18**	**0.13**	**0.01**	**0.32**	
204	2	Surface	**Percent**		**54.90%**	**40.98%**	**4.12%**		
204	3	Surface	Chromium	2.06E+01	0.00	0.01		0.01	100.00%
204	3	Surface	**Totals**		**0.00**	**0.01**		**0.01**	
204	3	Surface	**Percent**		**1.82%**	**98.18%**			
204	4	Surface	Antimony	1.10E+00	0.04	0.16		0.20	93.65%
204	4	Surface	Chromium	2.89E+01	0.00	0.01		0.01	6.35%
204	4	Surface	**Totals**		**0.04**	**0.18**		**0.21**	
204	4	Surface	**Percent**		**16.64%**	**83.36%**			
204	18	Surface	Uranium	1.60E+01	0.07	0.05	0.00	0.12	100.00%
204	18	Surface	**Totals**		**0.07**	**0.05**	**0.00**	**0.12**	
204	18	Surface	**Percent**		**58.69%**	**41.09%**	**0.22%**		
204	23	Surface	Beryllium	1.33E+00	0.01	0.12	0.00	0.13	0.13%
204	23	Surface	Chromium	1.75E+02	0.00	0.08		0.08	0.09%
204	23	Surface	Uranium	1.31E+04	55.70	38.99	0.21	94.90	99.78%
204	23	Surface	**Totals**		**55.71**	**39.19**	**0.21**	**95.11**	
204	23	Surface	**Percent**		**58.57%**	**41.20%**	**0.22%**		
211	1	Surface	Chromium	4.48E+01	0.00	0.02		0.02	11.65%
211	1	Surface	Uranium	2.19E+01	0.09	0.07	0.00	0.16	88.35%
211	1	Surface	**Totals**		**0.09**	**0.09**	**0.00**	**0.18**	
211	1	Surface	**Percent**		**52.07%**	**47.73%**	**0.20%**		
212	1	Surface	Arsenic	1.44E+01	0.61	0.26	0.00	0.88	26.89%
212	1	Surface	Beryllium	8.10E-01	0.01	0.07	0.00	0.08	2.39%
212	1	Surface	Chromium	3.58E+01	0.00	0.02		0.02	0.51%
212	1	Surface	Iron	4.14E+04	0.76	0.53		1.29	39.40%
212	1	Surface	Nickel	8.69E+01	0.06	0.78	0.00	0.84	25.69%
212	1	Surface	Uranium	2.30E+01	0.10	0.07	0.00	0.17	5.12%
212	1	Surface	**Totals**		**1.53**	**1.72**	**0.01**	**3.26**	
212	1	Surface	**Percent**		**46.89%**	**52.81%**	**0.30%**		
213	1	Surface	Antimony	8.50E-01	0.03	0.13		0.15	11.62%
213	1	Surface	Chromium	4.78E+01	0.00	0.02		0.02	1.69%
213	1	Surface	Nickel	6.67E+01	0.04	0.60	0.00	0.64	48.57%
213	1	Surface	Silver	1.32E+01	0.03	0.47		0.51	38.13%
213	1	Surface	**Totals**		**0.10**	**1.22**	**0.00**	**1.32**	
213	1	Surface	**Percent**		**7.84%**	**91.89%**	**0.27%**		
213	2	Surface	Chromium	4.48E+01	0.00	0.02		0.02	1.57%
213	2	Surface	Nickel	9.10E+01	0.06	0.81	0.00	0.88	65.95%
213	2	Surface	Silver	1.13E+01	0.03	0.40		0.43	32.47%
213	2	Surface	**Totals**		**0.09**	**1.24**	**0.00**	**1.33**	
213	2	Surface	**Percent**		**6.57%**	**93.07%**	**0.37%**		
214	1	Surface	Antimony	5.70E-01	0.02	0.09		0.10	100.00%
214	1	Surface	**Totals**		**0.02**	**0.09**		**0.10**	
214	1	Surface	**Percent**		**17.65%**	**82.35%**			
215	1	Surface	Antimony	6.80E-01	0.02	0.10		0.12	5.99%

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Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
215	1	Surface	Chromium	5.73E+01	0.00	0.03		0.03	1.30%
215	1	Surface	Iron	3.87E+04	0.71	0.49		1.20	58.41%
215	1	Surface	Nickel	7.32E+01	0.05	0.65	0.00	0.71	34.30%
215	1	Surface	**Totals**		**0.78**	**1.28**	**0.00**	**2.06**	
215	1	Surface	**Percent**		**37.71%**	**62.10%**	**0.19%**		
216	1	Surface	Chromium	2.38E+01	0.00	0.01		0.01	100.00%
216	1	Surface	**Totals**		**0.00**	**0.01**		**0.01**	
216	1	Surface	**Percent**		**1.82%**	**98.18%**			
217	1	Surface	Chromium	8.58E+01	0.00	0.04		0.04	1.34%
217	1	Surface	Cobalt	1.96E+01	0.83	0.58	0.02	1.43	47.84%
217	1	Surface	Manganese	7.70E+02	0.07	0.04	0.07	0.18	6.13%
217	1	Surface	Nickel	8.54E+01	0.05	0.76	0.00	0.82	27.48%
217	1	Surface	Silver	1.35E+01	0.03	0.48		0.52	17.21%
217	1	Surface	**Totals**		**0.99**	**1.91**	**0.09**	**3.00**	
217	1	Surface	**Percent**		**33.17%**	**63.68%**	**3.15%**		
217	2	Surface	Antimony	1.70E+00	0.05	0.25		0.31	3.40%
217	2	Surface	Arsenic	1.12E+01	0.48	0.20	0.00	0.68	7.50%
217	2	Surface	Chromium	1.02E+02	0.00	0.05		0.05	0.52%
217	2	Surface	Cobalt	1.74E+01	0.74	0.52	0.01	1.27	14.08%
217	2	Surface	Iron	3.09E+04	0.56	0.40		0.96	10.61%
217	2	Surface	Manganese	8.44E+02	0.08	0.04	0.08	0.20	2.22%
217	2	Surface	Mercury	8.59E+00	0.37	3.66		4.03	44.48%
217	2	Surface	Nickel	9.74E+01	0.06	0.87	0.01	0.94	10.37%
217	2	Surface	Silver	1.61E+01	0.04	0.58		0.62	6.82%
217	2	Surface	**Totals**		**2.38**	**6.57**	**0.10**	**9.05**	
217	2	Surface	**Percent**		**26.33%**	**72.52%**	**1.15%**		
219	1	Surface	Nickel	6.71E+01	0.04	0.60	0.00	0.65	100.00%
219	1	Surface	**Totals**		**0.04**	**0.60**	**0.00**	**0.65**	
219	1	Surface	**Percent**		**6.63%**	**92.82%**	**0.55%**		
221	1	Surface	Barium	2.21E+02	0.01	0.14	0.00	0.16	9.48%
221	1	Surface	Chromium	7.01E+01	0.00	0.03		0.03	1.97%
221	1	Surface	Iron	1.90E+04	0.35	0.24		0.59	35.44%
221	1	Surface	Nickel	7.93E+01	0.05	0.71	0.00	0.76	45.97%
221	1	Surface	Uranium	1.64E+01	0.07	0.05	0.00	0.12	7.14%
221	1	Surface	**Totals**		**0.48**	**1.17**	**0.01**	**1.66**	
221	1	Surface	**Percent**		**28.97%**	**70.63%**	**0.40%**		
222	1	Surface	Chromium	4.73E+01	0.00	0.02		0.02	1.99%
222	1	Surface	Nickel	9.19E+01	0.06	0.82	0.00	0.89	79.73%
222	1	Surface	Uranium	2.80E+01	0.12	0.08	0.00	0.20	18.28%
222	1	Surface	**Totals**		**0.18**	**0.93**	**0.01**	**1.11**	
222	1	Surface	**Percent**		**16.05%**	**83.47%**	**0.48%**		
224	1	Surface	Chromium	4.49E+01	0.00	0.02		0.02	6.51%
224	1	Surface	Uranium	4.15E+01	0.18	0.12	0.00	0.30	93.49%
224	1	Surface	**Totals**		**0.18**	**0.14**	**0.00**	**0.32**	
224	1	Surface	**Percent**		**54.99%**	**44.80%**	**0.21%**		
225	1	Surface	Chromium	2.55E+01	0.00	0.01		0.01	100.00%
225	1	Surface	**Totals**		**0.00**	**0.01**		**0.01**	
225	1	Surface	**Percent**		**1.82%**	**98.18%**			
226	1	Surface	Antimony	6.60E-01	0.02	0.10		0.12	1.22%
226	1	Surface	Chromium	4.25E+01	0.00	0.02		0.02	0.20%
226	1	Surface	Manganese	6.30E+02	0.06	0.03	0.06	0.15	1.54%
226	1	Surface	Mercury	9.74E+00	0.42	4.15		4.57	46.65%
226	1	Surface	Nickel	2.10E+02	0.13	1.88	0.01	2.02	20.65%
226	1	Surface	Uranium	4.01E+02	1.71	1.20	0.01	2.91	29.75%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
226	1	Surface	**Totals**		**2.34**	**7.37**	**0.08**	**9.79**	
226	1	Surface	**Percent**		**23.88%**	**75.33%**	**0.80%**		
227	1	Surface	Beryllium	5.52E-01	0.00	0.05	0.00	0.05	1.92%
227	1	Surface	Chromium	4.71E+01	0.00	0.02		0.02	0.80%
227	1	Surface	Nickel	2.03E+02	0.13	1.82	0.01	1.96	70.66%
227	1	Surface	Uranium	1.02E+02	0.43	0.30	0.00	0.74	26.63%
227	1	Surface	**Totals**		**0.57**	**2.19**	**0.01**	**2.77**	
227	1	Surface	**Percent**		**20.46%**	**79.09%**	**0.46%**		
227	2	Surface	Beryllium	5.32E-01	0.00	0.05	0.00	0.05	0.85%
227	2	Surface	Chromium	5.63E+01	0.00	0.03		0.03	0.44%
227	2	Surface	Cobalt	8.99E+00	0.38	0.27	0.01	0.66	10.99%
227	2	Surface	Mercury	8.41E+00	0.36	3.58		3.94	65.80%
227	2	Surface	Nickel	1.25E+02	0.08	1.12	0.01	1.20	20.10%
227	2	Surface	Uranium	1.51E+01	0.06	0.04	0.00	0.11	1.82%
227	2	Surface	**Totals**		**0.89**	**5.09**	**0.01**	**5.99**	
227	2	Surface	**Percent**		**14.84%**	**84.92%**	**0.24%**		
228	1	Surface	Antimony	6.30E-01	0.02	0.09		0.11	1.90%
228	1	Surface	Cadmium	3.90E+00	0.05	0.03	0.00	0.08	1.33%
228	1	Surface	Chromium	1.89E+02	0.00	0.09		0.09	1.47%
228	1	Surface	Mercury	9.37E+00	0.40	3.99		4.39	73.28%
228	1	Surface	Nickel	7.92E+01	0.05	0.71	0.00	0.76	12.73%
228	1	Surface	Silver	1.16E+01	0.03	0.42		0.45	7.44%
228	1	Surface	Uranium	1.51E+01	0.06	0.05	0.00	0.11	1.83%
228	1	Surface	**Totals**		**0.62**	**5.37**	**0.01**	**5.99**	
228	1	Surface	**Percent**		**10.27%**	**89.62%**	**0.11%**		
229	1	Surface	Nickel	9.14E+01	0.06	0.82	0.00	0.88	43.78%
229	1	Surface	Uranium	1.56E+02	0.66	0.46	0.00	1.13	56.22%
229	1	Surface	**Totals**		**0.72**	**1.28**	**0.01**	**2.01**	
229	1	Surface	**Percent**		**35.90%**	**63.73%**	**0.37%**		
229	2	Surface	Arsenic	2.12E+01	0.90	0.38	0.01	1.29	44.83%
229	2	Surface	Beryllium	7.90E-01	0.01	0.07	0.00	0.08	2.64%
229	2	Surface	Chromium	2.91E+01	0.00	0.01		0.01	0.47%
229	2	Surface	Nickel	9.93E+01	0.06	0.89	0.01	0.96	33.26%
229	2	Surface	Uranium	7.45E+01	0.32	0.22	0.00	0.54	18.80%
229	2	Surface	**Totals**		**1.29**	**1.57**	**0.01**	**2.88**	
229	2	Surface	**Percent**		**44.83%**	**54.71%**	**0.47%**		
483	1	Surface	Nickel	1.17E+02	0.07	1.04	0.01	1.12	72.37%
483	1	Surface	Silver	1.12E+01	0.03	0.40		0.43	27.63%
483	1	Surface	**Totals**		**0.10**	**1.44**	**0.01**	**1.55**	
483	1	Surface	**Percent**		**6.64%**	**92.96%**	**0.40%**		
486	1	Surface	**Totals**					**0.00**	
486	1	Surface	**Percent**						
487	1	Surface	**Totals**					**0.00**	
487	1	Surface	**Percent**						
488	1	Surface	Uranium	1.48E+01	0.06	0.04	0.00	0.11	100.00%
488	1	Surface	**Totals**		**0.06**	**0.04**	**0.00**	**0.11**	
488	1	Surface	**Percent**		**58.69%**	**41.09%**	**0.22%**		
489	1	Surface	Chromium	4.16E+01	0.00	0.02		0.02	2.50%
489	1	Surface	Nickel	7.88E+01	0.05	0.71	0.00	0.76	97.50%
489	1	Surface	**Totals**		**0.05**	**0.72**	**0.00**	**0.78**	
489	1	Surface	**Percent**		**6.51%**	**92.95%**	**0.54%**		
492	1	Surface	Arsenic	1.47E+01	0.63	0.26	0.00	0.89	0.67%
492	1	Surface	Beryllium	1.04E+01	0.07	0.93	0.00	1.00	0.75%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
492	1	Surface	Cadmium	3.14E+00	0.04	0.02	0.00	0.06	0.05%
492	1	Surface	Chromium	1.04E+03	0.01	0.48		0.49	0.36%
492	1	Surface	Uranium	1.77E+03	7.54	5.28	0.03	12.85	9.62%
492	1	Surface	Vanadium	4.32E+01	7.89	110.47	0.00	118.36	88.56%
492	1	Surface	**Totals**		**16.18**	**117.44**	**0.04**	**133.65**	
492	1	Surface	**Percent**		**12.10%**	**87.87%**	**0.03%**		
493	1	Surface	Aluminum	1.44E+04	0.18	0.13	0.01	0.33	0.28%
493	1	Surface	Barium	4.04E+02	0.03	0.26	0.00	0.29	0.25%
493	1	Surface	Beryllium	9.91E-01	0.01	0.09	0.00	0.10	0.08%
493	1	Surface	Chromium	6.61E+01	0.00	0.03		0.03	0.03%
493	1	Surface	Cobalt	3.79E+01	1.62	1.13	0.03	2.78	2.36%
493	1	Surface	Manganese	3.55E+03	0.32	0.18	0.34	0.85	0.72%
493	1	Surface	Mercury	2.60E-01	0.01	0.11		0.12	0.10%
493	1	Surface	Nickel	2.13E+02	0.14	1.91	0.01	2.05	1.75%
493	1	Surface	Vanadium	4.05E+01	7.40	103.56	0.00	110.96	94.43%
493	1	Surface	**Totals**		**9.70**	**107.40**	**0.40**	**117.50**	
493	1	Surface	**Percent**		**8.26%**	**91.40%**	**0.34%**		
517	1	Surface	Beryllium	7.39E-01	0.00	0.07	0.00	0.07	4.05%
517	1	Surface	Chromium	4.91E+01	0.00	0.02		0.02	1.31%
517	1	Surface	Nickel	1.72E+02	0.11	1.54	0.01	1.66	94.64%
517	1	Surface	**Totals**		**0.12**	**1.63**	**0.01**	**1.75**	
517	1	Surface	**Percent**		**6.57%**	**92.90%**	**0.53%**		
518	1	Surface	Cobalt	6.80E+00	0.29	0.20	0.01	0.50	22.18%
518	1	Surface	Nickel	1.29E+01	0.01	0.12	0.00	0.12	5.52%
518	1	Surface	Pyrene	3.94E+01	0.02	0.03	0.00	0.05	2.16%
518	1	Surface	Uranium	2.17E+02	0.92	0.65	0.00	1.58	70.13%
518	1	Surface	**Totals**		**1.24**	**1.00**	**0.01**	**2.25**	
518	1	Surface	**Percent**		**55.18%**	**44.33%**	**0.48%**		
520	1	Surface	Chromium	3.17E+01	0.00	0.01		0.01	0.17%
520	1	Surface	Iron	1.56E+04	0.28	0.20		0.48	5.58%
520	1	Surface	Mercury	1.07E+01	0.46	4.55		5.01	57.68%
520	1	Surface	Nickel	2.60E+02	0.17	2.33	0.01	2.51	28.93%
520	1	Surface	Silver	1.30E+01	0.03	0.46		0.50	5.73%
520	1	Surface	Uranium	2.29E+01	0.10	0.07	0.00	0.17	1.92%
520	1	Surface	**Totals**		**1.04**	**7.63**	**0.01**	**8.68**	
520	1	Surface	**Percent**		**11.95%**	**87.88%**	**0.16%**		
520	2	Surface	Beryllium	5.79E-01	0.00	0.05	0.00	0.06	0.61%
520	2	Surface	Chromium	6.67E+01	0.00	0.03		0.03	0.34%
520	2	Surface	Manganese	5.89E+02	0.05	0.03	0.06	0.14	1.55%
520	2	Surface	Mercury	1.19E+01	0.51	5.06		5.57	61.35%
520	2	Surface	Nickel	3.11E+02	0.20	2.78	0.02	2.99	32.98%
520	2	Surface	Uranium	3.96E+01	0.17	0.12	0.00	0.29	3.16%
520	2	Surface	**Totals**		**0.93**	**8.07**	**0.07**	**9.08**	
520	2	Surface	**Percent**		**10.26%**	**88.92%**	**0.82%**		
520	3	Surface	Chromium	3.97E+01	0.00	0.02		0.02	0.57%
520	3	Surface	Copper	1.19E+02	0.04	0.03		0.06	1.98%
520	3	Surface	Nickel	2.65E+02	0.17	2.37	0.01	2.55	78.27%
520	3	Surface	Silver	1.27E+01	0.03	0.45		0.49	14.90%
520	3	Surface	Uranium	1.92E+01	0.08	0.06	0.00	0.14	4.28%
520	3	Surface	**Totals**		**0.32**	**2.93**	**0.01**	**3.26**	
520	3	Surface	**Percent**		**9.87%**	**89.69%**	**0.44%**		
520	4	Surface	Chromium	3.82E+01	0.00	0.02		0.02	0.23%
520	4	Surface	Copper	1.11E+02	0.04	0.02		0.06	0.76%
520	4	Surface	Mercury	9.69E+00	0.41	4.13		4.54	57.40%

SWMU = solid waste management unit
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HI = hazard index

Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
520	4	Surface	Nickel	2.82E+02	0.18	2.52	0.02	2.72	34.35%
520	4	Surface	Silver	1.04E+01	0.03	0.37		0.40	5.06%
520	4	Surface	Uranium	2.40E+01	0.10	0.07	0.00	0.17	2.20%
520	4	Surface	**Totals**		**0.76**	**7.14**	**0.02**	**7.91**	
520	4	Surface	**Percent**		**9.58%**	**90.23%**	**0.20%**		
520	5	Surface	Antimony	9.60E-01	0.03	0.14		0.17	10.82%
520	5	Surface	Chromium	3.68E+01	0.00	0.02		0.02	1.07%
520	5	Surface	Nickel	1.47E+02	0.09	1.31	0.01	1.42	88.11%
520	5	Surface	**Totals**		**0.12**	**1.47**	**0.01**	**1.61**	
520	5	Surface	**Percent**		**7.77%**	**91.74%**	**0.49%**		
531	1	Surface	Antimony	1.00E+00	0.03	0.15		0.18	2.66%
531	1	Surface	Arsenic	4.68E+01	2.00	0.84	0.01	2.85	41.90%
531	1	Surface	Cadmium	3.10E+00	0.04	0.02	0.00	0.06	0.93%
531	1	Surface	Chromium	5.05E+01	0.00	0.02		0.02	0.35%
531	1	Surface	Iron	5.68E+04	1.04	0.73		1.76	25.96%
531	1	Surface	Nickel	1.62E+02	0.10	1.45	0.01	1.56	23.01%
531	1	Surface	Uranium	2.41E+01	0.10	0.07	0.00	0.17	2.57%
531	1	Surface	Zinc	2.45E+03	0.10	0.07		0.18	2.61%
531	1	Surface	**Totals**		**3.42**	**3.36**	**0.03**	**6.80**	
531	1	Surface	**Percent**		**50.25%**	**49.37%**	**0.38%**		
541	1	Surface	Aluminum	1.43E+04	0.18	0.13	0.01	0.32	0.25%
541	1	Surface	Barium	1.28E+02	0.01	0.08	0.00	0.09	0.07%
541	1	Surface	Beryllium	6.98E-01	0.00	0.06	0.00	0.07	0.05%
541	1	Surface	Cadmium	1.68E+00	0.02	0.01	0.00	0.03	0.03%
541	1	Surface	Chromium	8.24E+02	0.01	0.38		0.39	0.29%
541	1	Surface	Iron	1.60E+04	0.29	0.20		0.50	0.38%
541	1	Surface	Mercury	9.81E-02	0.00	0.04		0.05	0.04%
541	1	Surface	Naphthalene	6.55E-01	0.00	0.00	0.04	0.04	0.03%
541	1	Surface	Nickel	1.52E+01	0.01	0.14	0.00	0.15	0.11%
541	1	Surface	Uranium	6.38E+03	27.20	19.04	0.10	46.35	35.28%
541	1	Surface	Vanadium	3.04E+01	5.56	77.84	0.00	83.40	63.48%
541	1	Surface	**Totals**		**33.29**	**97.93**	**0.16**	**131.37**	
541	1	Surface	**Percent**		**25.34%**	**74.54%**	**0.12%**		
561	1	Surface	Antimony	9.36E-01	0.03	0.14		0.17	0.16%
561	1	Surface	Arsenic	1.66E+01	0.71	0.30	0.01	1.01	0.93%
561	1	Surface	Barium	1.40E+02	0.01	0.09	0.00	0.10	0.09%
561	1	Surface	Beryllium	6.85E-01	0.00	0.06	0.00	0.07	0.06%
561	1	Surface	Chromium	8.58E+01	0.00	0.04		0.04	0.04%
561	1	Surface	Cobalt	1.07E+01	0.46	0.32	0.01	0.78	0.72%
561	1	Surface	Iron	2.05E+04	0.37	0.26		0.64	0.59%
561	1	Surface	Manganese	1.61E+03	0.15	0.08	0.15	0.38	0.35%
561	1	Surface	Thallium	3.33E-01	0.05	0.04		0.09	0.08%
561	1	Surface	Uranium	2.65E+02	1.13	0.79	0.00	1.92	1.78%
561	1	Surface	Vanadium	3.76E+01	6.87	96.25	0.00	103.13	95.20%
561	1	Surface	**Totals**		**9.78**	**98.36**	**0.18**	**108.32**	
561	1	Surface	**Percent**		**9.03%**	**90.81%**	**0.16%**		
561	2	Surface	Antimony	5.33E+00	0.17	0.80		0.97	0.90%
561	2	Surface	Arsenic	1.30E+01	0.55	0.23	0.00	0.79	0.73%
561	2	Surface	Beryllium	6.34E-01	0.00	0.06	0.00	0.06	0.06%
561	2	Surface	Cadmium	4.13E-01	0.01	0.00	0.00	0.01	0.01%
561	2	Surface	Chromium	2.88E+02	0.00	0.13		0.13	0.12%
561	2	Surface	Cobalt	1.14E+01	0.49	0.34	0.01	0.84	0.77%
561	2	Surface	Manganese	1.12E+03	0.10	0.06	0.11	0.27	0.25%
561	2	Surface	Thallium	4.09E-01	0.07	0.05		0.11	0.10%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.25. HIs for the Child Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
561	2	Surface	Uranium	1.38E+03	5.89	4.13	0.02	10.04	9.31%
561	2	Surface	Vanadium	3.46E+01	6.31	88.35	0.00	94.66	87.75%
561	2	Surface	**Totals**		**13.59**	**94.14**	**0.14**	**107.88**	
561	2	Surface	**Percent**		**12.60%**	**87.26%**	**0.13%**		
562	1	Surface	Uranium	8.73E+01	0.37	0.26	0.00	0.63	100.00%
562	1	Surface	**Totals**		**0.37**	**0.26**	**0.00**	**0.63**	
562	1	Surface	**Percent**		**58.69%**	**41.09%**	**0.22%**		
562	2	Surface	**Totals**					**0.00**	
562	2	Surface	**Percent**						
562	3	Surface	Chromium	3.82E+01	0.00	0.02		0.02	4.00%
562	3	Surface	Uranium	5.89E+01	0.25	0.18	0.00	0.43	96.00%
562	3	Surface	**Totals**		**0.25**	**0.19**	**0.00**	**0.45**	
562	3	Surface	**Percent**		**56.42%**	**43.37%**	**0.21%**		
562	4	Surface	Chromium	4.67E+01	0.00	0.02		0.02	12.52%
562	4	Surface	Uranium	2.10E+01	0.09	0.06	0.00	0.15	87.48%
562	4	Surface	**Totals**		**0.09**	**0.08**	**0.00**	**0.17**	
562	4	Surface	**Percent**		**51.57%**	**48.23%**	**0.19%**		
562	5	Surface	Chromium	1.53E+02	0.00	0.07		0.07	4.52%
562	5	Surface	Uranium	2.08E+02	0.89	0.62	0.00	1.51	95.48%
562	5	Surface	**Totals**		**0.89**	**0.69**	**0.00**	**1.58**	
562	5	Surface	**Percent**		**56.12%**	**43.67%**	**0.21%**		
563	1	Surface	Cadmium	8.96E-01	0.01	0.01	0.00	0.02	7.01%
563	1	Surface	Chromium	2.85E+02	0.00	0.13		0.13	51.03%
563	1	Surface	Uranium	1.51E+01	0.06	0.05	0.00	0.11	41.96%
563	1	Surface	**Totals**		**0.08**	**0.18**	**0.00**	**0.26**	
563	1	Surface	**Percent**		**29.95%**	**69.79%**	**0.26%**		
563	2	Surface	**Totals**					**0.00**	
563	2	Surface	**Percent**						
564	1	Surface	Arsenic	4.30E+01	1.83	0.77	0.01	2.62	1.16%
564	1	Surface	Beryllium	2.12E+00	0.01	0.19	0.00	0.20	0.09%
564	1	Surface	Cadmium	1.96E+00	0.03	0.01	0.00	0.04	0.02%
564	1	Surface	Chromium	7.49E+01	0.00	0.03		0.04	0.02%
564	1	Surface	Iron	3.66E+04	0.67	0.47		1.14	0.50%
564	1	Surface	Mercury	2.30E-01	0.01	0.10		0.11	0.05%
564	1	Surface	Nickel	2.24E+01	0.01	0.20	0.00	0.22	0.10%
564	1	Surface	Thallium	2.36E+00	0.38	0.26		0.64	0.28%
564	1	Surface	Uranium	5.83E+01	0.25	0.17	0.00	0.42	0.19%
564	1	Surface	Vanadium	8.06E+01	14.72	206.10	0.00	220.83	97.60%
564	1	Surface	**Totals**		**17.91**	**208.31**	**0.02**	**226.25**	
564	1	Surface	**Percent**		**7.92%**	**92.07%**	**0.01%**		
567	3	Surface	Chromium	3.79E+01	0.00	0.02		0.02	100.00%
567	3	Surface	**Totals**		**0.00**	**0.02**		**0.02**	
567	3	Surface	**Percent**		**1.82%**	**98.18%**			
567	4	Surface	Aluminum	1.25E+04	0.16	0.11	0.01	0.28	97.39%
567	4	Surface	Chromium	1.63E+01	0.00	0.01		0.01	2.61%
567	4	Surface	**Totals**		**0.16**	**0.12**	**0.01**	**0.29**	
567	4	Surface	**Percent**		**54.91%**	**40.97%**	**4.12%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Adult Residential Receptor

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
1	1	Surface	Beryllium	3.89E+00	0.00	0.15	0.00	0.15	95.30%
1	1	Surface	Cadmium	1.10E+00	0.00	0.00	0.00	0.01	3.11%
1	1	Surface	Chromium	1.28E+01	0.00	0.00		0.00	1.59%
1	1	Surface	**Totals**		**0.00**	**0.16**	**0.00**	**0.16**	
1	1	Surface	**Percent**		**2.58%**	**97.23%**	**0.19%**		
1	2	Surface	Beryllium	8.23E+00	0.01	0.32	0.00	0.33	0.78%
1	2	Surface	Cadmium	6.46E+00	0.01	0.02	0.00	0.03	0.07%
1	2	Surface	Chromium	2.01E+02	0.00	0.04		0.04	0.10%
1	2	Surface	Copper	1.81E+02	0.01	0.02		0.02	0.06%
1	2	Surface	Mercury	5.94E+00	0.03	1.10		1.13	2.70%
1	2	Surface	Nickel	5.75E+01	0.00	0.22	0.00	0.23	0.55%
1	2	Surface	Silver	3.31E+01	0.01	0.52		0.53	1.26%
1	2	Surface	Thallium	3.70E-01	0.01	0.02		0.02	0.06%
1	2	Surface	Vanadium	3.49E+01	0.68	38.88	0.00	39.57	94.43%
1	2	Surface	**Totals**		**0.75**	**41.15**	**0.00**	**41.90**	
1	2	Surface	**Percent**		**1.79%**	**98.21%**	**0.01%**		
1	3	Surface	Chromium	1.45E+01	0.00	0.00		0.00	100.00%
1	3	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
1	3	Surface	**Percent**		**0.45%**	**99.55%**			
1	4	Surface	Beryllium	7.25E-01	0.00	0.03	0.00	0.03	12.31%
1	4	Surface	Chromium	9.30E+01	0.00	0.02		0.02	7.99%
1	4	Surface	Nickel	4.69E+01	0.00	0.18	0.00	0.19	79.70%
1	4	Surface	**Totals**		**0.00**	**0.23**	**0.00**	**0.23**	
1	4	Surface	**Percent**		**1.62%**	**98.14%**	**0.25%**		
1	5	Surface	Beryllium	8.30E+00	0.01	0.32	0.00	0.33	66.32%
1	5	Surface	Cadmium	1.20E+00	0.00	0.00	0.00	0.01	1.11%
1	5	Surface	Nickel	4.07E+01	0.00	0.16	0.00	0.16	32.57%
1	5	Surface	**Totals**		**0.01**	**0.49**	**0.00**	**0.50**	
1	5	Surface	**Percent**		**2.03%**	**97.76%**	**0.20%**		
12	1	Surface	Aluminum	8.19E+03	0.01	0.03	0.00	0.04	0.13%
12	1	Surface	Antimony	5.04E-01	0.00	0.03		0.03	0.10%
12	1	Surface	Arsenic	1.34E+01	0.06	0.10	0.00	0.17	0.47%
12	1	Surface	Barium	1.04E+02	0.00	0.03	0.00	0.03	0.08%
12	1	Surface	Beryllium	6.72E+00	0.00	0.26	0.00	0.27	0.75%
12	1	Surface	Cadmium	1.02E+00	0.00	0.00	0.00	0.00	0.01%
12	1	Surface	Chromium	6.33E+01	0.00	0.01		0.01	0.04%
12	1	Surface	Cobalt	9.16E+00	0.04	0.12	0.00	0.16	0.46%
12	1	Surface	Iron	3.01E+04	0.06	0.17		0.23	0.63%
12	1	Surface	Manganese	1.01E+03	0.01	0.02	0.02	0.05	0.15%
12	1	Surface	Mercury	8.80E+00	0.04	1.64		1.68	4.69%
12	1	Surface	Molybdenum	1.74E+01	0.00	0.01		0.02	0.05%
12	1	Surface	Nickel	7.74E+01	0.01	0.30	0.00	0.31	0.86%
12	1	Surface	Silver	1.10E+01	0.00	0.17		0.18	0.49%
12	1	Surface	Thallium	1.03E+00	0.02	0.05		0.07	0.19%
12	1	Surface	Uranium	3.76E+02	0.17	0.49	0.00	0.66	1.85%
12	1	Surface	Vanadium	2.80E+01	0.55	31.27	0.00	31.82	89.05%
12	1	Surface	**Totals**		**0.98**	**34.72**	**0.03**	**35.73**	
12	1	Surface	**Percent**		**2.75%**	**97.17%**	**0.08%**		
13	1	Surface	**Totals**					**0.00**	
13	1	Surface	**Percent**						
13	4	Surface	**Totals**					**0.00**	
13	4	Surface	**Percent**						
13	5	Surface	Aluminum	1.13E+04	0.02	0.04	0.00	0.06	7.71%
13	5	Surface	Antimony	8.20E-01	0.00	0.05		0.06	7.02%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	5	Surface	Cadmium	1.20E+00	0.00	0.00	0.00	0.01	0.69%
13	5	Surface	Chromium	1.51E+01	0.00	0.00		0.00	0.38%
13	5	Surface	Nickel	1.17E+02	0.01	0.45	0.00	0.46	57.99%
13	5	Surface	Uranium	1.19E+02	0.05	0.15	0.00	0.21	26.21%
13	5	Surface	**Totals**		**0.08**	**0.71**	**0.00**	**0.80**	
13	5	Surface	**Percent**		**10.28%**	**89.20%**	**0.52%**		
13	6	Surface	**Totals**					**0.00**	
13	6	Surface	**Percent**						
13	9	Surface	Uranium	1.82E+01	0.01	0.02	0.00	0.03	100.00%
13	9	Surface	**Totals**		**0.01**	**0.02**	**0.00**	**0.03**	
13	9	Surface	**Percent**		**25.92%**	**73.88%**	**0.20%**		
13	11	Surface	**Totals**					**0.00**	
13	11	Surface	**Percent**						
14	1	Surface	Arsenic	1.10E+01	0.05	0.09	0.00	0.14	11.01%
14	1	Surface	Chromium	6.36E+01	0.00	0.01		0.01	1.03%
14	1	Surface	Iron	1.89E+04	0.04	0.11		0.14	11.46%
14	1	Surface	Nickel	1.40E+02	0.01	0.55	0.00	0.56	44.87%
14	1	Surface	Silver	1.67E+01	0.00	0.26		0.27	21.38%
14	1	Surface	Uranium	7.21E+01	0.03	0.09	0.00	0.13	10.24%
14	1	Surface	**Totals**		**0.13**	**1.10**	**0.00**	**1.24**	
14	1	Surface	**Percent**		**10.82%**	**88.97%**	**0.21%**		
14	2	Surface	Antimony	3.70E+00	0.01	0.24		0.25	6.15%
14	2	Surface	Arsenic	1.45E+01	0.07	0.11	0.00	0.18	4.38%
14	2	Surface	Beryllium	7.10E-01	0.00	0.03	0.00	0.03	0.68%
14	2	Surface	Chromium	6.65E+01	0.00	0.01		0.01	0.32%
14	2	Surface	Copper	1.76E+02	0.01	0.02		0.02	0.56%
14	2	Surface	Iron	3.72E+04	0.07	0.21		0.28	6.79%
14	2	Surface	Manganese	1.44E+03	0.01	0.03	0.03	0.08	1.84%
14	2	Surface	Mercury	2.67E-01	0.00	0.05		0.05	1.23%
14	2	Surface	Nickel	6.78E+02	0.05	2.65	0.01	2.70	65.50%
14	2	Surface	Uranium	2.93E+02	0.13	0.38	0.00	0.52	12.53%
14	2	Surface	**Totals**		**0.35**	**3.73**	**0.04**	**4.12**	
14	2	Surface	**Percent**		**8.59%**	**90.46%**	**0.96%**		
14	3	Surface	Arsenic	1.30E+01	0.06	0.10	0.00	0.16	3.48%
14	3	Surface	Chromium	7.01E+01	0.00	0.01		0.01	0.30%
14	3	Surface	Copper	1.29E+02	0.00	0.01		0.02	0.37%
14	3	Surface	Iron	3.48E+04	0.07	0.19		0.26	5.66%
14	3	Surface	Manganese	1.06E+03	0.01	0.02	0.02	0.06	1.20%
14	3	Surface	Mercury	7.48E+00	0.03	1.39		1.42	30.72%
14	3	Surface	Molybdenum	2.21E+01	0.01	0.02		0.02	0.50%
14	3	Surface	Nickel	5.76E+02	0.04	2.25	0.01	2.30	49.51%
14	3	Surface	Uranium	2.18E+02	0.10	0.28	0.00	0.38	8.27%
14	3	Surface	**Totals**		**0.32**	**4.29**	**0.03**	**4.64**	
14	3	Surface	**Percent**		**6.93%**	**92.43%**	**0.65%**		
14	4	Surface	Antimony	4.30E+00	0.01	0.28		0.29	6.32%
14	4	Surface	Arsenic	1.33E+01	0.06	0.10	0.00	0.17	3.55%
14	4	Surface	Chromium	7.20E+01	0.00	0.01		0.01	0.31%
14	4	Surface	Copper	3.54E+02	0.01	0.03		0.05	1.00%
14	4	Surface	Iron	3.88E+04	0.08	0.22		0.29	6.28%
14	4	Surface	Mercury	4.87E-01	0.00	0.09		0.09	1.99%
14	4	Surface	Nickel	7.31E+02	0.05	2.85	0.01	2.91	62.49%
14	4	Surface	Silver	1.17E+01	0.00	0.18		0.19	3.99%
14	4	Surface	Uranium	3.72E+02	0.17	0.48	0.00	0.65	14.06%
14	4	Surface	**Totals**		**0.39**	**4.26**	**0.01**	**4.66**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
14	4	Surface	**Percent**		**8.35%**	**91.43%**	**0.23%**		
14	5	Surface	Antimony	2.30E+00	0.01	0.15		0.16	2.83%
14	5	Surface	Arsenic	1.31E+01	0.06	0.10	0.00	0.16	2.92%
14	5	Surface	Cadmium	3.90E+00	0.01	0.01	0.00	0.02	0.32%
14	5	Surface	Chromium	4.70E+01	0.00	0.01		0.01	0.17%
14	5	Surface	Cobalt	1.40E+01	0.06	0.18	0.00	0.25	4.46%
14	5	Surface	Copper	1.34E+02	0.00	0.01		0.02	0.32%
14	5	Surface	Iron	3.92E+04	0.08	0.22		0.30	5.30%
14	5	Surface	Manganese	8.28E+02	0.01	0.02	0.02	0.04	0.78%
14	5	Surface	Mercury	1.09E+01	0.05	2.03		2.08	37.43%
14	5	Surface	Nickel	4.61E+02	0.03	1.80	0.01	1.84	33.01%
14	5	Surface	Silver	1.29E+01	0.00	0.20		0.20	3.67%
14	5	Surface	Thallium	4.10E-01	0.01	0.02		0.03	0.49%
14	5	Surface	Uranium	2.62E+02	0.12	0.34	0.00	0.46	8.30%
14	5	Surface	**Totals**		**0.44**	**5.10**	**0.03**	**5.57**	
14	5	Surface	**Percent**		**7.87%**	**91.65%**	**0.48%**		
14	6	Surface	Antimony	2.70E+00	0.01	0.18		0.18	3.42%
14	6	Surface	Cadmium	8.40E-01	0.00	0.00	0.00	0.00	0.07%
14	6	Surface	Chromium	4.46E+02	0.00	0.09		0.09	1.66%
14	6	Surface	Copper	1.22E+02	0.00	0.01		0.02	0.30%
14	6	Surface	Mercury	3.47E-01	0.00	0.06		0.07	1.22%
14	6	Surface	Nickel	9.63E+02	0.07	3.76	0.01	3.84	70.98%
14	6	Surface	Silver	1.19E+01	0.00	0.19		0.19	3.49%
14	6	Surface	Uranium	5.79E+02	0.26	0.75	0.00	1.02	18.85%
14	6	Surface	**Totals**		**0.35**	**5.04**	**0.01**	**5.41**	
14	6	Surface	**Percent**		**6.47%**	**93.28%**	**0.24%**		
14	7	Surface	Antimony	7.50E-01	0.00	0.05		0.05	0.72%
14	7	Surface	Arsenic	1.13E+01	0.05	0.09	0.00	0.14	1.96%
14	7	Surface	Cadmium	2.70E+00	0.00	0.01	0.00	0.01	0.17%
14	7	Surface	Chromium	6.46E+01	0.00	0.01		0.01	0.18%
14	7	Surface	Mercury	7.82E+00	0.04	1.45		1.49	20.79%
14	7	Surface	Nickel	1.22E+03	0.08	4.77	0.01	4.87	68.00%
14	7	Surface	Uranium	3.33E+02	0.15	0.43	0.00	0.59	8.18%
14	7	Surface	**Totals**		**0.33**	**6.82**	**0.02**	**7.17**	
14	7	Surface	**Percent**		**4.60%**	**95.18%**	**0.23%**		
14	8	Surface	Antimony	6.10E-01	0.00	0.04		0.04	0.82%
14	8	Surface	Arsenic	1.14E+01	0.05	0.09	0.00	0.14	2.77%
14	8	Surface	Chromium	4.60E+01	0.00	0.01		0.01	0.18%
14	8	Surface	Mercury	7.90E+00	0.04	1.47		1.50	29.39%
14	8	Surface	Nickel	6.73E+02	0.05	2.63	0.01	2.68	52.33%
14	8	Surface	Silver	9.63E+00	0.00	0.15		0.15	2.99%
14	8	Surface	Uranium	3.35E+02	0.15	0.44	0.00	0.59	11.53%
14	8	Surface	**Totals**		**0.29**	**4.82**	**0.01**	**5.12**	
14	8	Surface	**Percent**		**5.70%**	**94.11%**	**0.19%**		
14	9	Surface	Antimony	2.00E+00	0.01	0.13		0.14	1.99%
14	9	Surface	Arsenic	1.40E+01	0.06	0.11	0.00	0.17	2.54%
14	9	Surface	Cadmium	9.40E-01	0.00	0.00	0.00	0.00	0.06%
14	9	Surface	Chromium	4.64E+01	0.00	0.01		0.01	0.14%
14	9	Surface	Mercury	1.13E+00	0.01	0.21		0.22	3.13%
14	9	Surface	Nickel	9.43E+02	0.06	3.68	0.01	3.76	54.65%
14	9	Surface	Uranium	1.46E+03	0.67	1.91	0.01	2.58	37.49%
14	9	Surface	**Totals**		**0.81**	**6.05**	**0.02**	**6.88**	
14	9	Surface	**Percent**		**11.79%**	**87.97%**	**0.25%**		
14	10	Surface	Antimony	9.40E-01	0.00	0.06		0.06	0.79%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
14	10	Surface	Arsenic	1.12E+01	0.05	0.09	0.00	0.14	1.72%
14	10	Surface	Chromium	4.19E+01	0.00	0.01		0.01	0.10%
14	10	Surface	Copper	1.41E+02	0.00	0.01		0.02	0.23%
14	10	Surface	Iron	2.75E+04	0.05	0.15		0.21	2.55%
14	10	Surface	Mercury	2.51E+01	0.11	4.66		4.78	58.88%
14	10	Surface	Nickel	6.00E+02	0.04	2.34	0.01	2.39	29.47%
14	10	Surface	Uranium	2.88E+02	0.13	0.38	0.00	0.51	6.26%
14	10	Surface	**Totals**		**0.40**	**7.71**	**0.01**	**8.12**	
14	10	Surface	**Percent**		**4.93%**	**94.96%**	**0.11%**		
15	1	Surface	Antimony	6.40E-01	0.00	0.04		0.04	3.55%
15	1	Surface	Arsenic	1.24E+01	0.06	0.10	0.00	0.15	12.46%
15	1	Surface	Chromium	5.61E+01	0.00	0.01		0.01	0.91%
15	1	Surface	Copper	1.95E+02	0.01	0.02		0.03	2.08%
15	1	Surface	Iron	2.95E+04	0.06	0.16		0.22	18.01%
15	1	Surface	Nickel	1.33E+02	0.01	0.52	0.00	0.53	42.77%
15	1	Surface	Silver	1.23E+01	0.00	0.19		0.20	15.81%
15	1	Surface	Uranium	3.09E+01	0.01	0.04	0.00	0.05	4.41%
15	1	Surface	**Totals**		**0.15**	**1.08**	**0.00**	**1.24**	
15	1	Surface	**Percent**		**12.12%**	**87.68%**	**0.20%**		
15	2	Surface	Antimony	6.60E-01	0.00	0.04		0.05	1.35%
15	2	Surface	Arsenic	1.63E+01	0.07	0.13	0.00	0.20	6.04%
15	2	Surface	Chromium	5.90E+01	0.00	0.01		0.01	0.35%
15	2	Surface	Iron	3.89E+04	0.08	0.22		0.29	8.75%
15	2	Surface	Mercury	9.33E+00	0.04	1.73		1.78	53.09%
15	2	Surface	Nickel	1.97E+02	0.01	0.77	0.00	0.79	23.48%
15	2	Surface	Uranium	1.32E+02	0.06	0.17	0.00	0.23	6.93%
15	2	Surface	**Totals**		**0.27**	**3.07**	**0.00**	**3.35**	
15	2	Surface	**Percent**		**8.03%**	**91.85%**	**0.11%**		
15	3	Surface	Antimony	2.45E+01	0.08	1.59		1.68	21.80%
15	3	Surface	Arsenic	2.60E+01	0.12	0.20	0.00	0.32	4.20%
15	3	Surface	Beryllium	7.60E-01	0.00	0.03	0.00	0.03	0.39%
15	3	Surface	Cadmium	1.19E+01	0.02	0.04	0.00	0.05	0.71%
15	3	Surface	Chromium	7.53E+01	0.00	0.02		0.02	0.20%
15	3	Surface	Cobalt	3.41E+01	0.16	0.44	0.01	0.61	7.86%
15	3	Surface	Copper	1.40E+03	0.05	0.14		0.18	2.39%
15	3	Surface	Iron	9.20E+04	0.18	0.51		0.69	9.01%
15	3	Surface	Manganese	1.60E+03	0.02	0.04	0.03	0.08	1.10%
15	3	Surface	Mercury	2.74E+00	0.01	0.51		0.52	6.78%
15	3	Surface	Molybdenum	1.70E+01	0.00	0.01		0.02	0.23%
15	3	Surface	Nickel	7.57E+02	0.05	2.95	0.01	3.01	39.16%
15	3	Surface	Selenium	2.65E+01	0.01	0.02	0.00	0.03	0.36%
15	3	Surface	Silver	3.20E+00	0.00	0.05		0.05	0.66%
15	3	Surface	Uranium	2.16E+02	0.10	0.28	0.00	0.38	4.94%
15	3	Surface	Zinc	8.79E+02	0.00	0.01		0.02	0.20%
15	3	Surface	**Totals**		**0.80**	**6.85**	**0.05**	**7.70**	
15	3	Surface	**Percent**		**10.37%**	**88.96%**	**0.67%**		
15	4	Surface	Antimony	7.40E+00	0.03	0.48		0.51	4.87%
15	4	Surface	Arsenic	3.47E+01	0.16	0.27	0.00	0.43	4.14%
15	4	Surface	Cadmium	1.40E+00	0.00	0.00	0.00	0.01	0.06%
15	4	Surface	Chromium	1.02E+02	0.00	0.02		0.02	0.20%
15	4	Surface	Copper	7.05E+02	0.02	0.07		0.09	0.89%
15	4	Surface	Iron	7.81E+04	0.15	0.44		0.59	5.65%
15	4	Surface	Manganese	1.54E+03	0.02	0.03	0.03	0.08	0.78%
15	4	Surface	Mercury	1.41E+01	0.06	2.62		2.68	25.77%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	4	Surface	Nickel	1.37E+03	0.09	5.36	0.02	5.47	52.57%
15	4	Surface	Silver	1.46E+01	0.00	0.23		0.23	2.23%
15	4	Surface	Uranium	1.57E+02	0.07	0.20	0.00	0.28	2.65%
15	4	Surface	Zinc	1.19E+03	0.01	0.02		0.02	0.20%
15	4	Surface	**Totals**		**0.62**	**9.75**	**0.05**	**10.41**	
15	4	Surface	**Percent**		**5.92%**	**93.59%**	**0.48%**		
15	5	Surface	Antimony	3.10E+00	0.01	0.20		0.21	5.50%
15	5	Surface	Arsenic	1.28E+01	0.06	0.10	0.00	0.16	4.12%
15	5	Surface	Cadmium	1.50E+00	0.00	0.00	0.00	0.01	0.18%
15	5	Surface	Chromium	4.28E+01	0.00	0.01		0.01	0.22%
15	5	Surface	Copper	5.63E+03	0.19	0.55		0.74	19.23%
15	5	Surface	Mercury	3.38E-01	0.00	0.06		0.06	1.67%
15	5	Surface	Nickel	5.10E+02	0.03	1.99	0.01	2.03	52.64%
15	5	Surface	Silver	1.46E+01	0.00	0.23		0.23	6.01%
15	5	Surface	Uranium	2.13E+02	0.10	0.28	0.00	0.38	9.73%
15	5	Surface	Zinc	1.52E+03	0.01	0.02		0.03	0.69%
15	5	Surface	**Totals**		**0.41**	**3.44**	**0.01**	**3.86**	
15	5	Surface	**Percent**		**10.59%**	**89.21%**	**0.20%**		
15	6	Surface	Antimony	5.10E+00	0.02	0.33		0.35	12.64%
15	6	Surface	Arsenic	1.24E+01	0.06	0.10	0.00	0.15	5.60%
15	6	Surface	Cadmium	1.50E+00	0.00	0.00	0.00	0.01	0.25%
15	6	Surface	Chromium	5.80E+01	0.00	0.01		0.01	0.42%
15	6	Surface	Cobalt	1.62E+01	0.07	0.21	0.00	0.29	10.41%
15	6	Surface	Copper	4.23E+02	0.01	0.04		0.06	2.02%
15	6	Surface	Iron	3.15E+04	0.06	0.18		0.24	8.59%
15	6	Surface	Mercury	4.10E-01	0.00	0.08		0.08	2.83%
15	6	Surface	Nickel	3.24E+02	0.02	1.26	0.00	1.29	46.71%
15	6	Surface	Silver	1.09E+01	0.00	0.17		0.17	6.27%
15	6	Surface	Uranium	6.70E+01	0.03	0.09	0.00	0.12	4.27%
15	6	Surface	**Totals**		**0.28**	**2.47**	**0.01**	**2.76**	
15	6	Surface	**Percent**		**10.28%**	**89.44%**	**0.28%**		
15	7	Surface	Antimony	7.50E-01	0.00	0.05		0.05	1.60%
15	7	Surface	Arsenic	1.61E+01	0.07	0.13	0.00	0.20	6.21%
15	7	Surface	Cadmium	1.00E+00	0.00	0.00	0.00	0.00	0.14%
15	7	Surface	Chromium	7.87E+01	0.00	0.02		0.02	0.49%
15	7	Surface	Copper	7.33E+02	0.03	0.07		0.10	3.00%
15	7	Surface	Iron	3.42E+04	0.07	0.19		0.26	8.00%
15	7	Surface	Manganese	1.11E+03	0.01	0.02	0.02	0.06	1.81%
15	7	Surface	Nickel	5.59E+02	0.04	2.18	0.01	2.23	69.12%
15	7	Surface	Silver	1.29E+01	0.00	0.20		0.20	6.35%
15	7	Surface	Uranium	5.39E+01	0.02	0.07	0.00	0.09	2.95%
15	7	Surface	Zinc	5.87E+02	0.00	0.01		0.01	0.32%
15	7	Surface	**Totals**		**0.25**	**2.94**	**0.03**	**3.22**	
15	7	Surface	**Percent**		**7.75%**	**91.31%**	**0.95%**		
15	8	Surface	Antimony	5.40E+00	0.02	0.35		0.37	10.01%
15	8	Surface	Arsenic	1.17E+01	0.05	0.09	0.00	0.14	3.92%
15	8	Surface	Chromium	7.74E+01	0.00	0.02		0.02	0.42%
15	8	Surface	Copper	1.62E+02	0.01	0.02		0.02	0.58%
15	8	Surface	Iron	2.83E+04	0.06	0.16		0.21	5.76%
15	8	Surface	Mercury	1.00E+01	0.05	1.87		1.91	51.76%
15	8	Surface	Nickel	1.82E+02	0.01	0.71	0.00	0.72	19.59%
15	8	Surface	Silver	1.36E+01	0.00	0.21		0.22	5.83%
15	8	Surface	Uranium	4.46E+01	0.02	0.06	0.00	0.08	2.12%
15	8	Surface	**Totals**		**0.21**	**3.48**	**0.00**	**3.69**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	8	Surface	**Percent**		**5.82%**	**94.10%**	**0.08%**		
15	9	Surface	Arsenic	1.10E+01	0.05	0.09	0.00	0.14	10.78%
15	9	Surface	Chromium	9.56E+01	0.00	0.02		0.02	1.51%
15	9	Surface	Copper	1.36E+02	0.00	0.01		0.02	1.40%
15	9	Surface	Iron	2.76E+04	0.05	0.15		0.21	16.31%
15	9	Surface	Nickel	1.49E+02	0.01	0.58	0.00	0.59	46.54%
15	9	Surface	Silver	1.54E+01	0.00	0.24		0.25	19.22%
15	9	Surface	Uranium	3.07E+01	0.01	0.04	0.00	0.05	4.24%
15	9	Surface	**Totals**		**0.14**	**1.13**	**0.00**	**1.27**	
15	9	Surface	**Percent**		**10.79%**	**89.01%**	**0.20%**		
15	10	Surface	Chromium	3.55E+01	0.00	0.01		0.01	0.30%
15	10	Surface	Mercury	7.84E+00	0.04	1.46		1.49	63.10%
15	10	Surface	Nickel	1.46E+02	0.01	0.57	0.00	0.58	24.53%
15	10	Surface	Silver	1.08E+01	0.00	0.17		0.17	7.26%
15	10	Surface	Uranium	6.47E+01	0.03	0.08	0.00	0.11	4.82%
15	10	Surface	**Totals**		**0.08**	**2.29**	**0.00**	**2.37**	
15	10	Surface	**Percent**		**3.31%**	**96.61%**	**0.08%**		
16	1	Surface	**Totals**					**0.00**	
16	1	Surface	**Percent**						
16	2	Surface	Beryllium	8.40E-01	0.00	0.03	0.00	0.03	27.04%
16	2	Surface	Chromium	2.04E+01	0.00	0.00		0.00	3.32%
16	2	Surface	Nickel	2.16E+01	0.00	0.08	0.00	0.09	69.64%
16	2	Surface	**Totals**		**0.00**	**0.12**	**0.00**	**0.12**	
16	2	Surface	**Percent**		**1.68%**	**98.09%**	**0.24%**		
16	3	Surface	**Totals**					**0.00**	
16	3	Surface	**Percent**						
16	4	Surface	**Totals**					**0.00**	
16	4	Surface	**Percent**						
19	1	Surface	Beryllium	1.10E+00	0.00	0.04	0.00	0.04	38.42%
19	1	Surface	Cadmium	1.20E+00	0.00	0.00	0.00	0.01	4.84%
19	1	Surface	Thallium	9.80E-01	0.02	0.05		0.06	56.73%
19	1	Surface	**Totals**		**0.02**	**0.09**	**0.00**	**0.11**	
19	1	Surface	**Percent**		**16.84%**	**83.00%**	**0.16%**		
26	1	Surface	Arsenic	1.29E+01	0.06	0.10	0.00	0.16	30.34%
26	1	Surface	Beryllium	6.69E-01	0.00	0.03	0.00	0.03	5.04%
26	1	Surface	Cadmium	1.99E+00	0.00	0.01	0.00	0.01	1.73%
26	1	Surface	Chromium	1.90E+01	0.00	0.00		0.00	0.72%
26	1	Surface	Mercury	1.66E-01	0.00	0.03		0.03	5.99%
26	1	Surface	Nickel	1.76E+01	0.00	0.07	0.00	0.07	13.27%
26	1	Surface	Uranium	1.29E+02	0.06	0.17	0.00	0.23	42.91%
26	1	Surface	**Totals**		**0.12**	**0.40**	**0.00**	**0.53**	
26	1	Surface	**Percent**		**23.24%**	**76.43%**	**0.33%**		
26	2	Surface	Aluminum	2.17E+04	0.03	0.08	0.00	0.12	0.29%
26	2	Surface	Arsenic	4.72E+01	0.22	0.37	0.00	0.59	1.45%
26	2	Surface	Barium	1.49E+02	0.00	0.04	0.00	0.04	0.11%
26	2	Surface	Beryllium	9.69E+00	0.01	0.38	0.00	0.39	0.95%
26	2	Surface	Cadmium	2.38E+00	0.00	0.01	0.00	0.01	0.03%
26	2	Surface	Chromium	3.90E+01	0.00	0.01		0.01	0.02%
26	2	Surface	Cobalt	5.20E+01	0.24	0.68	0.01	0.92	2.28%
26	2	Surface	Copper	1.31E+02	0.00	0.01		0.02	0.04%
26	2	Surface	Iron	5.32E+04	0.10	0.30		0.40	0.99%
26	2	Surface	Nickel	1.13E+02	0.01	0.44	0.00	0.45	1.11%
26	2	Surface	Thallium	1.39E+01	0.24	0.68		0.92	2.26%
26	2	Surface	Uranium	6.46E+02	0.29	0.84	0.00	1.14	2.81%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
26	2	Surface	Vanadium	3.13E+01	0.61	34.86	0.00	35.47	87.65%
26	2	Surface	**Totals**		**1.75**	**38.69**	**0.02**	**40.47**	
26	2	Surface	**Percent**		**4.34%**	**95.61%**	**0.05%**		
26	3	Surface	Aluminum	9.55E+03	0.01	0.04	0.00	0.05	0.12%
26	3	Surface	Antimony	1.40E+00	0.00	0.09		0.10	0.21%
26	3	Surface	Arsenic	5.09E+01	0.23	0.40	0.00	0.63	1.41%
26	3	Surface	Barium	4.48E+02	0.00	0.12	0.00	0.13	0.29%
26	3	Surface	Beryllium	2.54E+00	0.00	0.10	0.00	0.10	0.22%
26	3	Surface	Cadmium	2.34E+00	0.00	0.01	0.00	0.01	0.02%
26	3	Surface	Chromium	3.25E+01	0.00	0.01		0.01	0.01%
26	3	Surface	Cobalt	1.21E+01	0.06	0.16	0.00	0.21	0.48%
26	3	Surface	Mercury	3.87E-01	0.00	0.07		0.07	0.16%
26	3	Surface	Naphthalene	1.32E+00	0.00	0.00	0.02	0.02	0.04%
26	3	Surface	Nickel	2.97E+01	0.00	0.12	0.00	0.12	0.26%
26	3	Surface	Silver	2.59E+01	0.01	0.40		0.41	0.92%
26	3	Surface	Thallium	6.00E-01	0.01	0.03		0.04	0.09%
26	3	Surface	Uranium	9.88E+01	0.05	0.13	0.00	0.17	0.39%
26	3	Surface	Vanadium	3.77E+01	0.74	42.02	0.00	42.76	95.37%
26	3	Surface	**Totals**		**1.12**	**43.69**	**0.03**	**44.83**	
26	3	Surface	**Percent**		**2.49%**	**97.45%**	**0.06%**		
26	4	Surface	Aluminum	1.07E+04	0.01	0.04	0.00	0.06	2.11%
26	4	Surface	Antimony	6.00E-01	0.00	0.04		0.04	1.48%
26	4	Surface	Beryllium	6.91E-01	0.00	0.03	0.00	0.03	0.99%
26	4	Surface	Cadmium	1.99E+00	0.00	0.01	0.00	0.01	0.33%
26	4	Surface	Chromium	8.57E+01	0.00	0.02		0.02	0.62%
26	4	Surface	Copper	1.16E+02	0.00	0.01		0.02	0.55%
26	4	Surface	Mercury	3.07E+00	0.01	0.57		0.59	21.11%
26	4	Surface	Nickel	7.54E+01	0.01	0.29	0.00	0.30	10.84%
26	4	Surface	Uranium	9.75E+02	0.45	1.27	0.00	1.72	61.96%
26	4	Surface	**Totals**		**0.49**	**2.28**	**0.01**	**2.77**	
26	4	Surface	**Percent**		**17.62%**	**82.14%**	**0.24%**		
47	1	Surface	Aluminum	1.50E+04	0.02	0.06	0.00	0.08	4.85%
47	1	Surface	Antimony	9.00E-01	0.00	0.06		0.06	3.64%
47	1	Surface	Arsenic	4.52E+01	0.21	0.35	0.00	0.56	33.21%
47	1	Surface	Beryllium	7.00E-01	0.00	0.03	0.00	0.03	1.64%
47	1	Surface	Cadmium	4.25E+00	0.01	0.01	0.00	0.02	1.15%
47	1	Surface	Chromium	5.39E+01	0.00	0.01		0.01	0.64%
47	1	Surface	Cobalt	1.43E+01	0.07	0.19	0.00	0.25	14.99%
47	1	Surface	Iron	2.95E+04	0.06	0.16		0.22	13.13%
47	1	Surface	Naphthalene	1.90E+00	0.00	0.00	0.02	0.02	1.41%
47	1	Surface	Nickel	8.25E+01	0.01	0.32	0.00	0.33	19.41%
47	1	Surface	Pyrene	1.11E+02	0.01	0.04	0.00	0.04	2.55%
47	1	Surface	Uranium	3.23E+01	0.01	0.04	0.00	0.06	3.36%
47	1	Surface	**Totals**		**0.38**	**1.28**	**0.03**	**1.69**	
47	1	Surface	**Percent**		**22.74%**	**75.33%**	**1.94%**		
74	1	Surface	**Totals**					**0.00**	
74	1	Surface	**Percent**						
75	1	Surface	Cadmium	1.10E+00	0.00	0.00	0.00	0.01	1.22%
75	1	Surface	Chromium	7.17E+01	0.00	0.01		0.01	3.48%
75	1	Surface	Copper	3.15E+02	0.01	0.03		0.04	10.02%
75	1	Surface	Nickel	8.87E+01	0.01	0.35	0.00	0.35	85.28%
75	1	Surface	**Totals**		**0.02**	**0.39**	**0.00**	**0.41**	
75	1	Surface	**Percent**		**4.45%**	**95.28%**	**0.27%**		
76	1	Surface	Barium	2.69E+02	0.00	0.08	0.00	0.08	100.00%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
76	1	Surface	**Totals**		**0.00**	**0.08**	**0.00**	**0.08**	
76	1	Surface	**Percent**		**2.38%**	**96.90%**	**0.72%**		
78	1	Surface	Cadmium	2.36E+00	0.00	0.01	0.00	0.01	3.55%
78	1	Surface	Chromium	3.75E+01	0.00	0.01		0.01	2.47%
78	1	Surface	Naphthalene	1.60E+01	0.00	0.02	0.18	0.20	65.93%
78	1	Surface	Nickel	2.15E+01	0.00	0.08	0.00	0.09	28.05%
78	1	Surface	**Totals**		**0.01**	**0.11**	**0.19**	**0.31**	
78	1	Surface	**Percent**		**1.91%**	**37.48%**	**60.61%**		
80	1	Surface	Antimony	9.10E-01	0.00	0.06		0.06	0.61%
80	1	Surface	Beryllium	7.80E-01	0.00	0.03	0.00	0.03	0.30%
80	1	Surface	Chromium	1.65E+02	0.00	0.03		0.03	0.32%
80	1	Surface	Mercury	4.50E-01	0.00	0.08		0.09	0.83%
80	1	Surface	Uranium	5.72E+03	2.61	7.45	0.02	10.08	97.94%
80	1	Surface	**Totals**		**2.62**	**7.66**	**0.02**	**10.29**	
80	1	Surface	**Percent**		**25.45%**	**74.36%**	**0.19%**		
81	1	Surface	Aluminum	9.57E+03	0.01	0.04	0.00	0.05	0.39%
81	1	Surface	Arsenic	1.03E+01	0.05	0.08	0.00	0.13	0.94%
81	1	Surface	Beryllium	7.57E-01	0.00	0.03	0.00	0.03	0.22%
81	1	Surface	Chromium	8.62E+01	0.00	0.02		0.02	0.13%
81	1	Surface	Mercury	8.33E+00	0.04	1.55		1.59	11.67%
81	1	Surface	Nickel	7.29E+01	0.00	0.28	0.00	0.29	2.14%
81	1	Surface	Silver	2.70E+00	0.00	0.04		0.04	0.32%
81	1	Surface	Uranium	6.50E+03	2.97	8.46	0.02	11.45	84.21%
81	1	Surface	**Totals**		**3.07**	**10.50**	**0.03**	**13.60**	
81	1	Surface	**Percent**		**22.60%**	**77.21%**	**0.19%**		
99	1	Surface	Chromium	5.51E+01	0.00	0.01		0.01	0.49%
99	1	Surface	Mercury	9.53E+00	0.04	1.77		1.82	79.98%
99	1	Surface	Nickel	7.02E+01	0.00	0.27	0.00	0.28	12.32%
99	1	Surface	Silver	1.03E+01	0.00	0.16		0.16	7.21%
99	1	Surface	**Totals**		**0.05**	**2.22**	**0.00**	**2.27**	
99	1	Surface	**Percent**		**2.26%**	**97.71%**	**0.04%**		
138	1	Surface	Antimony	5.39E+00	0.02	0.35		0.37	10.70%
138	1	Surface	Arsenic	1.06E+01	0.05	0.08	0.00	0.13	3.83%
138	1	Surface	Cadmium	5.42E+00	0.01	0.02	0.00	0.02	0.72%
138	1	Surface	Chromium	5.39E+01	0.00	0.01		0.01	0.31%
138	1	Surface	Mercury	1.30E+01	0.06	2.41		2.47	71.67%
138	1	Surface	Nickel	7.04E+01	0.00	0.27	0.00	0.28	8.12%
138	1	Surface	Silver	1.01E+01	0.00	0.16		0.16	4.64%
138	1	Surface	**Totals**		**0.14**	**3.31**	**0.00**	**3.45**	
138	1	Surface	**Percent**		**4.09%**	**95.85%**	**0.06%**		
138	2	Surface	Nickel	7.99E+01	0.01	0.31	0.00	0.32	65.73%
138	2	Surface	Silver	1.04E+01	0.00	0.16		0.17	34.27%
138	2	Surface	**Totals**		**0.01**	**0.47**	**0.00**	**0.48**	
138	2	Surface	**Percent**		**1.72%**	**98.09%**	**0.19%**		
153	1	Surface	**Totals**					**0.00**	
153	1	Surface	**Percent**						
154	1	Surface	Arsenic	1.52E+01	0.07	0.12	0.00	0.19	28.66%
154	1	Surface	Chromium	4.28E+01	0.00	0.01		0.01	1.31%
154	1	Surface	Nickel	9.89E+01	0.01	0.39	0.00	0.39	59.82%
154	1	Surface	Uranium	3.82E+01	0.02	0.05	0.00	0.07	10.21%
154	1	Surface	**Totals**		**0.09**	**0.56**	**0.00**	**0.66**	
154	1	Surface	**Percent**		**14.20%**	**85.45%**	**0.35%**		
154	2	Surface	**Totals**					**0.00**	
154	2	Surface	**Percent**						

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
155	1	Surface	Antimony	3.65E+00	0.01	0.24		0.25	33.90%
155	1	Surface	Chromium	3.47E+01	0.00	0.01		0.01	0.95%
155	1	Surface	Nickel	7.65E+01	0.01	0.30	0.00	0.30	41.30%
155	1	Surface	Silver	1.11E+01	0.00	0.17		0.18	23.85%
155	1	Surface	**Totals**		**0.02**	**0.72**	**0.00**	**0.74**	
155	1	Surface	**Percent**		**2.82%**	**97.06%**	**0.12%**		
156	1	Surface	Chromium	4.90E+01	0.00	0.01		0.01	0.42%
156	1	Surface	Manganese	2.83E+03	0.03	0.06	0.06	0.15	6.42%
156	1	Surface	Mercury	9.87E+00	0.05	1.83		1.88	80.85%
156	1	Surface	Nickel	6.16E+01	0.00	0.24	0.00	0.25	10.56%
156	1	Surface	Uranium	2.32E+01	0.01	0.03	0.00	0.04	1.76%
156	1	Surface	**Totals**		**0.09**	**2.18**	**0.06**	**2.33**	
156	1	Surface	**Percent**		**3.77%**	**93.69%**	**2.54%**		
158	1	Surface	Antimony	5.23E-01	0.00	0.03		0.04	1.23%
158	1	Surface	Arsenic	1.01E+01	0.05	0.08	0.00	0.13	4.32%
158	1	Surface	Barium	2.19E+02	0.00	0.06	0.00	0.06	2.16%
158	1	Surface	Chromium	6.07E+01	0.00	0.01		0.01	0.42%
158	1	Surface	Cobalt	1.62E+01	0.07	0.21	0.00	0.29	9.87%
158	1	Surface	Manganese	9.91E+02	0.01	0.02	0.02	0.05	1.79%
158	1	Surface	Mercury	1.05E+01	0.05	1.94		1.99	68.33%
158	1	Surface	Nickel	7.28E+01	0.00	0.28	0.00	0.29	9.95%
158	1	Surface	Thallium	3.12E-01	0.01	0.02		0.02	0.71%
158	1	Surface	Uranium	2.03E+01	0.01	0.03	0.00	0.04	1.23%
158	1	Surface	**Totals**		**0.20**	**2.69**	**0.03**	**2.92**	
158	1	Surface	**Percent**		**6.88%**	**92.25%**	**0.87%**		
160	1	Surface	Antimony	6.80E-01	0.00	0.04		0.05	100.00%
160	1	Surface	**Totals**		**0.00**	**0.04**		**0.05**	
160	1	Surface	**Percent**		**5.00%**	**95.00%**			
163	1	Surface	Chromium	4.94E+01	0.00	0.01		0.01	100.00%
163	1	Surface	**Totals**		**0.00**	**0.01**		**0.01**	
163	1	Surface	**Percent**		**0.45%**	**99.55%**			
165	1	Surface	Antimony	2.20E+00	0.01	0.14		0.15	7.33%
165	1	Surface	Arsenic	6.35E+01	0.29	0.50	0.00	0.79	38.45%
165	1	Surface	Barium	5.84E+02	0.00	0.16	0.00	0.17	8.18%
165	1	Surface	Beryllium	6.82E-01	0.00	0.03	0.00	0.03	1.32%
165	1	Surface	Chromium	3.74E+01	0.00	0.01		0.01	0.37%
165	1	Surface	Mercury	3.78E-01	0.00	0.07		0.07	3.50%
165	1	Surface	Naphthalene	1.61E+00	0.00	0.00	0.02	0.02	0.99%
165	1	Surface	Nickel	3.47E+01	0.00	0.14	0.00	0.14	6.73%
165	1	Surface	Silver	3.09E+01	0.01	0.48		0.49	23.92%
165	1	Surface	Uranium	1.08E+02	0.05	0.14	0.00	0.19	9.21%
165	1	Surface	**Totals**		**0.36**	**1.67**	**0.02**	**2.05**	
165	1	Surface	**Percent**		**17.70%**	**81.08%**	**1.21%**		
169	1	Surface	Aluminum	1.42E+04	0.02	0.06	0.00	0.08	1.67%
169	1	Surface	Antimony	1.30E+00	0.00	0.08		0.09	1.91%
169	1	Surface	Arsenic	2.03E+01	0.09	0.16	0.00	0.25	5.42%
169	1	Surface	Beryllium	8.00E-01	0.00	0.03	0.00	0.03	0.68%
169	1	Surface	Chromium	2.15E+02	0.00	0.04		0.04	0.93%
169	1	Surface	Copper	3.74E+02	0.01	0.04		0.05	1.06%
169	1	Surface	Iron	4.16E+04	0.08	0.23		0.31	6.72%
169	1	Surface	Mercury	7.87E+00	0.04	1.46		1.50	32.16%
169	1	Surface	Nickel	5.49E+02	0.04	2.14	0.01	2.19	46.90%
169	1	Surface	Thallium	4.60E-01	0.01	0.02		0.03	0.65%
169	1	Surface	Uranium	5.03E+01	0.02	0.07	0.00	0.09	1.90%

SWMU = solid waste management unit
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HI = hazard index

Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
169	1	Surface	**Totals**		**0.32**	**4.33**	**0.01**	**4.66**	
169	1	Surface	**Percent**		**6.78%**	**92.99%**	**0.23%**		
170	1	Surface	**Totals**					**0.00**	
170	1	Surface	**Percent**						
176	1	Surface	Arsenic	4.86E+01	0.22	0.38	0.00	0.60	56.02%
176	1	Surface	Chromium	4.27E+01	0.00	0.01		0.01	0.80%
176	1	Surface	Nickel	1.07E+02	0.01	0.42	0.00	0.43	39.58%
176	1	Surface	Uranium	2.21E+01	0.01	0.03	0.00	0.04	3.61%
176	1	Surface	**Totals**		**0.24**	**0.83**	**0.00**	**1.08**	
176	1	Surface	**Percent**		**22.18%**	**77.39%**	**0.43%**		
180	1	Surface	Antimony	5.80E-01	0.00	0.04		0.04	1.37%
180	1	Surface	Arsenic	7.48E+01	0.34	0.58	0.01	0.93	32.01%
180	1	Surface	Chromium	5.54E+01	0.00	0.01		0.01	0.38%
180	1	Surface	Mercury	8.28E+00	0.04	1.54		1.58	54.23%
180	1	Surface	Nickel	8.77E+01	0.01	0.34	0.00	0.35	12.01%
180	1	Surface	**Totals**		**0.39**	**2.51**	**0.01**	**2.91**	
180	1	Surface	**Percent**		**13.32%**	**86.47%**	**0.21%**		
180	2	Surface	Antimony	4.58E-01	0.00	0.03		0.03	5.88%
180	2	Surface	Arsenic	1.27E+01	0.06	0.10	0.00	0.16	29.53%
180	2	Surface	Chromium	4.46E+01	0.00	0.01		0.01	1.68%
180	2	Surface	Nickel	8.42E+01	0.01	0.33	0.00	0.34	62.90%
180	2	Surface	**Totals**		**0.07**	**0.47**	**0.00**	**0.53**	
180	2	Surface	**Percent**		**12.22%**	**87.44%**	**0.34%**		
180	3	Surface	Arsenic	1.34E+01	0.06	0.10	0.00	0.17	26.52%
180	3	Surface	Chromium	4.69E+01	0.00	0.01		0.01	1.51%
180	3	Surface	Nickel	6.77E+01	0.00	0.26	0.00	0.27	43.06%
180	3	Surface	Silver	1.14E+01	0.00	0.18		0.18	28.92%
180	3	Surface	**Totals**		**0.07**	**0.56**	**0.00**	**0.63**	
180	3	Surface	**Percent**		**10.98%**	**88.75%**	**0.27%**		
180	4	Surface	Arsenic	1.15E+01	0.05	0.09	0.00	0.14	0.26%
180	4	Surface	Barium	2.13E+02	0.00	0.06	0.00	0.06	0.11%
180	4	Surface	Beryllium	1.60E+00	0.00	0.06	0.00	0.06	0.11%
180	4	Surface	Chromium	6.00E+01	0.00	0.01		0.01	0.02%
180	4	Surface	Iron	1.54E+04	0.03	0.09		0.12	0.21%
180	4	Surface	Manganese	7.09E+02	0.01	0.02	0.01	0.04	0.07%
180	4	Surface	Nickel	6.46E+01	0.00	0.25	0.00	0.26	0.46%
180	4	Surface	Silver	9.68E+00	0.00	0.15		0.15	0.28%
180	4	Surface	Vanadium	4.85E+01	0.95	54.10	0.00	55.05	98.49%
180	4	Surface	**Totals**		**1.05**	**54.83**	**0.02**	**55.89**	
180	4	Surface	**Percent**		**1.88%**	**98.09%**	**0.03%**		
181	1	Surface	Chromium	2.29E+01	0.00	0.00		0.00	1.95%
181	1	Surface	Thallium	3.50E+00	0.06	0.17		0.23	98.05%
181	1	Surface	**Totals**		**0.06**	**0.18**		**0.24**	
181	1	Surface	**Percent**		**25.48%**	**74.52%**			
194	1	Surface	Antimony	1.50E+00	0.01	0.10		0.10	5.72%
194	1	Surface	Chromium	3.87E+01	0.00	0.01		0.01	0.43%
194	1	Surface	Mercury	6.71E+00	0.03	1.25		1.28	71.20%
194	1	Surface	Nickel	5.84E+01	0.00	0.23	0.00	0.23	12.97%
194	1	Surface	Silver	1.09E+01	0.00	0.17		0.17	9.68%
194	1	Surface	**Totals**		**0.04**	**1.75**	**0.00**	**1.80**	
194	1	Surface	**Percent**		**2.38%**	**97.58%**	**0.04%**		
194	2	Surface	Chromium	5.96E+01	0.00	0.01		0.01	4.60%
194	2	Surface	Silver	1.31E+01	0.00	0.21		0.21	80.01%
194	2	Surface	Uranium	2.28E+01	0.01	0.03	0.00	0.04	15.39%

SWMU = solid waste management unit
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HI = hazard index

Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	2	Surface	**Totals**		**0.01**	**0.25**	**0.00**	**0.26**	
194	2	Surface	**Percent**		**5.39%**	**94.58%**	**0.03%**		
194	3	Surface	Antimony	6.90E-01	0.00	0.04		0.05	9.60%
194	3	Surface	Arsenic	1.46E+01	0.07	0.11	0.00	0.18	37.00%
194	3	Surface	Chromium	3.90E+01	0.00	0.01		0.01	1.59%
194	3	Surface	Nickel	6.40E+01	0.00	0.25	0.00	0.26	51.81%
194	3	Surface	**Totals**		**0.07**	**0.42**	**0.00**	**0.49**	
194	3	Surface	**Percent**		**14.95%**	**84.69%**	**0.35%**		
194	4	Surface	Chromium	4.84E+01	0.00	0.01		0.01	0.45%
194	4	Surface	Mercury	8.92E+00	0.04	1.66		1.70	78.26%
194	4	Surface	Nickel	6.91E+01	0.00	0.27	0.00	0.28	12.67%
194	4	Surface	Silver	1.18E+01	0.00	0.18		0.19	8.62%
194	4	Surface	**Totals**		**0.05**	**2.12**	**0.00**	**2.17**	
194	4	Surface	**Percent**		**2.24%**	**97.72%**	**0.04%**		
194	5	Surface	Chromium	4.58E+01	0.00	0.01		0.01	0.43%
194	5	Surface	Mercury	8.69E+00	0.04	1.62		1.66	76.53%
194	5	Surface	Nickel	7.54E+01	0.01	0.29	0.00	0.30	13.90%
194	5	Surface	Silver	1.25E+01	0.00	0.19		0.20	9.15%
194	5	Surface	**Totals**		**0.05**	**2.11**	**0.00**	**2.16**	
194	5	Surface	**Percent**		**2.23%**	**97.73%**	**0.04%**		
194	6	Surface	Chromium	3.70E+01	0.00	0.01		0.01	1.37%
194	6	Surface	Manganese	1.08E+03	0.01	0.02	0.02	0.06	10.49%
194	6	Surface	Nickel	8.06E+01	0.01	0.31	0.00	0.32	59.18%
194	6	Surface	Silver	9.89E+00	0.00	0.15		0.16	28.96%
194	6	Surface	**Totals**		**0.02**	**0.50**	**0.02**	**0.54**	
194	6	Surface	**Percent**		**3.47%**	**92.26%**	**4.27%**		
194	7	Surface	Chromium	5.32E+01	0.00	0.01		0.01	2.07%
194	7	Surface	Nickel	7.71E+01	0.01	0.30	0.00	0.31	59.48%
194	7	Surface	Silver	1.25E+01	0.00	0.20		0.20	38.45%
194	7	Surface	**Totals**		**0.01**	**0.51**	**0.00**	**0.52**	
194	7	Surface	**Percent**		**1.69%**	**98.13%**	**0.17%**		
194	8	Surface	Chromium	5.36E+01	0.00	0.01		0.01	20.36%
194	8	Surface	Manganese	8.00E+02	0.01	0.02	0.02	0.04	79.64%
194	8	Surface	**Totals**		**0.01**	**0.03**	**0.02**	**0.05**	
194	8	Surface	**Percent**		**14.88%**	**53.99%**	**31.13%**		
194	9	Surface	Arsenic	1.14E+01	0.05	0.09	0.00	0.14	93.19%
194	9	Surface	Chromium	5.17E+01	0.00	0.01		0.01	6.81%
194	9	Surface	**Totals**		**0.05**	**0.10**	**0.00**	**0.15**	
194	9	Surface	**Percent**		**34.23%**	**65.26%**	**0.51%**		
194	10	Surface	Arsenic	1.22E+01	0.06	0.09	0.00	0.15	32.80%
194	10	Surface	Chromium	3.63E+01	0.00	0.01		0.01	1.58%
194	10	Surface	Nickel	7.60E+01	0.01	0.30	0.00	0.30	65.62%
194	10	Surface	**Totals**		**0.06**	**0.40**	**0.00**	**0.46**	
194	10	Surface	**Percent**		**13.17%**	**86.46%**	**0.37%**		
194	11	Surface	Chromium	3.27E+01	0.00	0.01		0.01	0.30%
194	11	Surface	Mercury	8.09E+00	0.04	1.50		1.54	71.35%
194	11	Surface	Nickel	1.01E+02	0.01	0.39	0.00	0.40	18.57%
194	11	Surface	Silver	1.33E+01	0.00	0.21		0.21	9.78%
194	11	Surface	**Totals**		**0.05**	**2.11**	**0.00**	**2.16**	
194	11	Surface	**Percent**		**2.20%**	**97.75%**	**0.05%**		
194	12	Surface	Chromium	6.34E+01	0.00	0.01		0.01	2.47%
194	12	Surface	Nickel	7.86E+01	0.01	0.31	0.00	0.31	60.66%
194	12	Surface	Silver	1.20E+01	0.00	0.19		0.19	36.87%
194	12	Surface	**Totals**		**0.01**	**0.51**	**0.00**	**0.52**	

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Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	12	Surface	**Percent**		**1.69%**	**98.14%**	**0.17%**		
194	13	Surface	Chromium	4.77E+01	0.00	0.01		0.01	3.84%
194	13	Surface	Nickel	6.03E+01	0.00	0.24	0.00	0.24	96.16%
194	13	Surface	**Totals**		**0.00**	**0.24**	**0.00**	**0.25**	
194	13	Surface	**Percent**		**1.67%**	**98.05%**	**0.28%**		
194	14	Surface	Chromium	5.21E+01	0.00	0.01		0.01	0.67%
194	14	Surface	Mercury	8.14E+00	0.04	1.51		1.55	99.33%
194	14	Surface	**Totals**		**0.04**	**1.52**		**1.56**	
194	14	Surface	**Percent**		**2.38%**	**97.62%**			
194	15	Surface	Chromium	5.33E+01	0.00	0.01		0.01	6.14%
194	15	Surface	Silver	1.03E+01	0.00	0.16		0.16	93.86%
194	15	Surface	**Totals**		**0.00**	**0.17**		**0.17**	
194	15	Surface	**Percent**		**1.65%**	**98.35%**			
194	16	Surface	Antimony	7.40E-01	0.00	0.05		0.05	0.11%
194	16	Surface	Arsenic	1.15E+01	0.05	0.09	0.00	0.14	0.30%
194	16	Surface	Beryllium	8.70E-01	0.00	0.03	0.00	0.03	0.07%
194	16	Surface	Chromium	5.32E+01	0.00	0.01		0.01	0.02%
194	16	Surface	Nickel	7.20E+01	0.00	0.28	0.00	0.29	0.61%
194	16	Surface	Thallium	6.30E-01	0.01	0.03		0.04	0.09%
194	16	Surface	Vanadium	4.11E+01	0.80	45.85	0.00	46.65	98.80%
194	16	Surface	**Totals**		**0.88**	**46.34**	**0.00**	**47.22**	
194	16	Surface	**Percent**		**1.85%**	**98.14%**	**0.00%**		
194	17	Surface	Arsenic	1.16E+01	0.05	0.09	0.00	0.14	90.89%
194	17	Surface	Cadmium	1.10E+00	0.00	0.00	0.00	0.01	3.20%
194	17	Surface	Chromium	4.65E+01	0.00	0.01		0.01	5.91%
194	17	Surface	**Totals**		**0.05**	**0.10**	**0.00**	**0.16**	
194	17	Surface	**Percent**		**34.33%**	**65.09%**	**0.57%**		
194	18	Surface	Arsenic	1.06E+01	0.05	0.08	0.00	0.13	32.48%
194	18	Surface	Beryllium	7.40E-01	0.00	0.03	0.00	0.03	7.27%
194	18	Surface	Chromium	6.85E+01	0.00	0.01		0.01	3.40%
194	18	Surface	Nickel	5.78E+01	0.00	0.23	0.00	0.23	56.85%
194	18	Surface	**Totals**		**0.05**	**0.35**	**0.00**	**0.40**	
194	18	Surface	**Percent**		**13.04%**	**86.61%**	**0.35%**		
194	19	Surface	Arsenic	1.07E+01	0.05	0.08	0.00	0.13	35.44%
194	19	Surface	Chromium	4.84E+01	0.00	0.01		0.01	2.59%
194	19	Surface	Nickel	5.84E+01	0.00	0.23	0.00	0.23	61.97%
194	19	Surface	**Totals**		**0.05**	**0.32**	**0.00**	**0.38**	
194	19	Surface	**Percent**		**14.08%**	**85.54%**	**0.37%**		
194	20	Surface	Arsenic	1.18E+01	0.05	0.09	0.00	0.15	0.32%
194	20	Surface	Barium	3.26E+02	0.00	0.09	0.00	0.09	0.20%
194	20	Surface	Beryllium	1.10E+00	0.00	0.04	0.00	0.04	0.10%
194	20	Surface	Chromium	5.24E+01	0.00	0.01		0.01	0.02%
194	20	Surface	Cobalt	2.11E+01	0.10	0.27	0.00	0.37	0.82%
194	20	Surface	Manganese	2.29E+03	0.02	0.05	0.05	0.12	0.26%
194	20	Surface	Mercury	7.28E+00	0.03	1.35		1.39	3.02%
194	20	Surface	Nickel	6.57E+01	0.00	0.26	0.00	0.26	0.57%
194	20	Surface	Silver	1.22E+01	0.00	0.19		0.19	0.42%
194	20	Surface	Vanadium	3.81E+01	0.75	42.50	0.00	43.25	94.26%
194	20	Surface	**Totals**		**0.96**	**44.86**	**0.05**	**45.88**	
194	20	Surface	**Percent**		**2.10%**	**97.79%**	**0.12%**		
194	21	Surface	Antimony	9.30E-01	0.00	0.06		0.06	3.84%
194	21	Surface	Chromium	5.51E+01	0.00	0.01		0.01	0.67%
194	21	Surface	Mercury	6.62E+00	0.03	1.23		1.26	76.09%
194	21	Surface	Nickel	7.01E+01	0.00	0.27	0.00	0.28	16.86%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	21	Surface	Thallium	6.40E-01	0.01	0.03		0.04	2.55%
194	21	Surface	**Totals**		**0.05**	**1.61**	**0.00**	**1.66**	
194	21	Surface	**Percent**		**2.97%**	**96.98%**	**0.05%**		
194	22	Surface	Chromium	4.90E+01	0.00	0.01		0.01	18.58%
194	22	Surface	Manganese	8.19E+02	0.01	0.02	0.02	0.04	81.42%
194	22	Surface	**Totals**		**0.01**	**0.03**	**0.02**	**0.05**	
194	22	Surface	**Percent**		**15.20%**	**52.97%**	**31.82%**		
194	23	Surface	Arsenic	1.16E+01	0.05	0.09	0.00	0.14	17.39%
194	23	Surface	Chromium	6.60E+01	0.00	0.01		0.01	1.61%
194	23	Surface	Iron	1.83E+04	0.04	0.10		0.14	16.67%
194	23	Surface	Nickel	8.77E+01	0.01	0.34	0.00	0.35	42.27%
194	23	Surface	Silver	1.15E+01	0.00	0.18		0.18	22.07%
194	23	Surface	**Totals**		**0.10**	**0.73**	**0.00**	**0.83**	
194	23	Surface	**Percent**		**11.82%**	**87.96%**	**0.22%**		
194	24	Surface	Chromium	5.02E+01	0.00	0.01		0.01	3.46%
194	24	Surface	Nickel	7.08E+01	0.00	0.28	0.00	0.28	96.54%
194	24	Surface	**Totals**		**0.00**	**0.29**	**0.00**	**0.29**	
194	24	Surface	**Percent**		**1.68%**	**98.05%**	**0.28%**		
194	25	Surface	Barium	3.00E+02	0.00	0.08	0.00	0.09	21.40%
194	25	Surface	Chromium	6.13E+01	0.00	0.01		0.01	3.05%
194	25	Surface	Manganese	9.96E+02	0.01	0.02	0.02	0.05	13.01%
194	25	Surface	Nickel	6.33E+01	0.00	0.25	0.00	0.25	62.54%
194	25	Surface	**Totals**		**0.02**	**0.37**	**0.02**	**0.40**	
194	25	Surface	**Percent**		**4.01%**	**90.57%**	**5.42%**		
194	26	Surface	Beryllium	7.00E-01	0.00	0.03	0.00	0.03	12.37%
194	26	Surface	Chromium	4.18E+01	0.00	0.01		0.01	3.74%
194	26	Surface	Silver	1.03E+01	0.00	0.16		0.16	72.48%
194	26	Surface	Thallium	3.90E-01	0.01	0.02		0.03	11.42%
194	26	Surface	**Totals**		**0.01**	**0.22**	**0.00**	**0.23**	
194	26	Surface	**Percent**		**4.45%**	**95.54%**	**0.02%**		
194	27	Surface	Chromium	5.22E+01	0.00	0.01		0.01	2.43%
194	27	Surface	Nickel	6.55E+01	0.00	0.26	0.00	0.26	60.37%
194	27	Surface	Silver	1.01E+01	0.00	0.16		0.16	37.20%
194	27	Surface	**Totals**		**0.01**	**0.42**	**0.00**	**0.43**	
194	27	Surface	**Percent**		**1.69%**	**98.14%**	**0.17%**		
194	28	Surface	Arsenic	1.20E+01	0.05	0.09	0.00	0.15	0.32%
194	28	Surface	Beryllium	7.10E-01	0.00	0.03	0.00	0.03	0.06%
194	28	Surface	Chromium	6.07E+01	0.00	0.01		0.01	0.03%
194	28	Surface	Manganese	1.14E+03	0.01	0.03	0.02	0.06	0.13%
194	28	Surface	Nickel	6.95E+01	0.00	0.27	0.00	0.28	0.59%
194	28	Surface	Silver	1.08E+01	0.00	0.17		0.17	0.37%
194	28	Surface	Vanadium	4.06E+01	0.79	45.29	0.00	46.08	98.51%
194	28	Surface	**Totals**		**0.87**	**45.89**	**0.03**	**46.78**	
194	28	Surface	**Percent**		**1.86%**	**98.09%**	**0.05%**		
194	29	Surface	Antimony	7.10E-01	0.00	0.05		0.05	10.27%
194	29	Surface	Chromium	5.06E+01	0.00	0.01		0.01	2.15%
194	29	Surface	Nickel	6.51E+01	0.00	0.25	0.00	0.26	54.79%
194	29	Surface	Silver	9.77E+00	0.00	0.15		0.16	32.79%
194	29	Surface	**Totals**		**0.01**	**0.46**	**0.00**	**0.47**	
194	29	Surface	**Percent**		**2.03%**	**97.81%**	**0.16%**		
194	30	Surface	Chromium	5.66E+01	0.00	0.01		0.01	0.54%
194	30	Surface	Mercury	8.80E+00	0.04	1.64		1.68	79.03%
194	30	Surface	Nickel	6.99E+01	0.00	0.27	0.00	0.28	13.12%
194	30	Surface	Silver	9.76E+00	0.00	0.15		0.16	7.31%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	30	Surface	**Totals**		**0.05**	**2.07**	**0.00**	**2.12**	
194	30	Surface	**Percent**		**2.25%**	**97.71%**	**0.04%**		
194	31	Surface	**Totals**					**0.00**	
194	31	Surface	**Percent**						
195	1	Surface	Chromium	6.33E+01	0.00	0.01		0.01	2.88%
195	1	Surface	Nickel	7.02E+01	0.00	0.27	0.00	0.28	63.38%
195	1	Surface	Silver	9.37E+00	0.00	0.15		0.15	33.74%
195	1	Surface	**Totals**		**0.01**	**0.43**	**0.00**	**0.44**	
195	1	Surface	**Percent**		**1.68%**	**98.13%**	**0.18%**		
195	2	Surface	Chromium	4.52E+01	0.00	0.01		0.01	5.69%
195	2	Surface	Silver	9.48E+00	0.00	0.15		0.15	94.31%
195	2	Surface	**Totals**		**0.00**	**0.16**		**0.16**	
195	2	Surface	**Percent**		**1.65%**	**98.35%**			
195	3	Surface	Chromium	5.03E+01	0.00	0.01		0.01	4.64%
195	3	Surface	Nickel	5.22E+01	0.00	0.20	0.00	0.21	95.36%
195	3	Surface	**Totals**		**0.00**	**0.21**	**0.00**	**0.22**	
195	3	Surface	**Percent**		**1.66%**	**98.07%**	**0.27%**		
195	4	Surface	Chromium	5.29E+01	0.00	0.01		0.01	4.11%
195	4	Surface	Nickel	6.23E+01	0.00	0.24	0.00	0.25	95.89%
195	4	Surface	**Totals**		**0.00**	**0.25**	**0.00**	**0.26**	
195	4	Surface	**Percent**		**1.67%**	**98.06%**	**0.28%**		
195	5	Surface	Chromium	5.74E+01	0.00	0.01		0.01	3.45%
195	5	Surface	Nickel	8.11E+01	0.01	0.32	0.00	0.32	96.55%
195	5	Surface	**Totals**		**0.01**	**0.33**	**0.00**	**0.33**	
195	5	Surface	**Percent**		**1.68%**	**98.05%**	**0.28%**		
195	6	Surface	Chromium	4.45E+01	0.00	0.01		0.01	2.52%
195	6	Surface	Nickel	8.71E+01	0.01	0.34	0.00	0.35	97.48%
195	6	Surface	**Totals**		**0.01**	**0.35**	**0.00**	**0.36**	
195	6	Surface	**Percent**		**1.69%**	**98.03%**	**0.28%**		
195	7	Surface	Chromium	4.93E+01	0.00	0.01		0.01	7.18%
195	7	Surface	Silver	8.06E+00	0.00	0.13		0.13	92.82%
195	7	Surface	**Totals**		**0.00**	**0.14**		**0.14**	
195	7	Surface	**Percent**		**1.63%**	**98.37%**			
195	8	Surface	Arsenic	1.16E+01	0.05	0.09	0.00	0.14	0.31%
195	8	Surface	Beryllium	7.40E-01	0.00	0.03	0.00	0.03	0.06%
195	8	Surface	Chromium	6.79E+01	0.00	0.01		0.01	0.03%
195	8	Surface	Cobalt	1.82E+01	0.08	0.24	0.00	0.32	0.69%
195	8	Surface	Nickel	7.01E+01	0.00	0.27	0.00	0.28	0.60%
195	8	Surface	Vanadium	4.04E+01	0.79	45.06	0.00	45.86	98.31%
195	8	Surface	**Totals**		**0.93**	**45.71**	**0.01**	**46.64**	
195	8	Surface	**Percent**		**2.00%**	**97.99%**	**0.01%**		
195	9	Surface	Chromium	6.08E+01	0.00	0.01		0.01	3.73%
195	9	Surface	Nickel	7.93E+01	0.01	0.31	0.00	0.32	96.27%
195	9	Surface	**Totals**		**0.01**	**0.32**	**0.00**	**0.33**	
195	9	Surface	**Percent**		**1.67%**	**98.05%**	**0.28%**		
195	10	Surface	Chromium	4.51E+01	0.00	0.01		0.01	1.77%
195	10	Surface	Nickel	7.40E+01	0.01	0.29	0.00	0.29	57.57%
195	10	Surface	Silver	1.31E+01	0.00	0.20		0.21	40.67%
195	10	Surface	**Totals**		**0.01**	**0.50**	**0.00**	**0.51**	
195	10	Surface	**Percent**		**1.70%**	**98.14%**	**0.17%**		
195	11	Surface	Aluminum	2.81E+04	0.04	0.11	0.01	0.15	0.17%
195	11	Surface	Arsenic	1.35E+01	0.06	0.11	0.00	0.17	0.18%
195	11	Surface	Barium	4.53E+02	0.00	0.13	0.00	0.13	0.14%

SWMU = solid waste management unit
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Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
195	11	Surface	Chromium	5.05E+01	0.00	0.01		0.01	0.01%
195	11	Surface	Cobalt	2.77E+01	0.13	0.36	0.00	0.49	0.54%
195	11	Surface	Iron	1.97E+04	0.04	0.11		0.15	0.16%
195	11	Surface	Nickel	6.77E+01	0.00	0.26	0.00	0.27	0.29%
195	11	Surface	Thallium	6.60E-01	0.01	0.03		0.04	0.05%
195	11	Surface	Vanadium	7.97E+01	1.56	88.90	0.00	90.46	98.46%
195	11	Surface	**Totals**		**1.84**	**90.02**	**0.01**	**91.88**	
195	11	Surface	**Percent**		**2.01%**	**97.98%**	**0.02%**		
195	12	Surface	Beryllium	7.50E-01	0.00	0.03	0.00	0.03	9.50%
195	12	Surface	Chromium	7.04E+01	0.00	0.01		0.01	4.51%
195	12	Surface	Nickel	6.78E+01	0.00	0.26	0.00	0.27	85.99%
195	12	Surface	**Totals**		**0.01**	**0.31**	**0.00**	**0.31**	
195	12	Surface	**Percent**		**1.66%**	**98.08%**	**0.26%**		
195	13	Surface	Chromium	6.55E+01	0.00	0.01		0.01	4.57%
195	13	Surface	Nickel	6.91E+01	0.00	0.27	0.00	0.28	95.43%
195	13	Surface	**Totals**		**0.00**	**0.28**	**0.00**	**0.29**	
195	13	Surface	**Percent**		**1.66%**	**98.06%**	**0.27%**		
195	14	Surface	Chromium	5.94E+01	0.00	0.01		0.01	4.09%
195	14	Surface	Nickel	7.04E+01	0.00	0.27	0.00	0.28	95.91%
195	14	Surface	**Totals**		**0.00**	**0.29**	**0.00**	**0.29**	
195	14	Surface	**Percent**		**1.67%**	**98.06%**	**0.28%**		
195	15	Surface	Chromium	4.82E+01	0.00	0.01		0.01	100.00%
195	15	Surface	**Totals**		**0.00**	**0.01**		**0.01**	
195	15	Surface	**Percent**		**0.45%**	**99.55%**			
195	16	Surface	Chromium	4.45E+01	0.00	0.01		0.01	2.68%
195	16	Surface	Nickel	8.16E+01	0.01	0.32	0.00	0.32	97.32%
195	16	Surface	**Totals**		**0.01**	**0.33**	**0.00**	**0.33**	
195	16	Surface	**Percent**		**1.69%**	**98.03%**	**0.28%**		
195	17	Surface	Chromium	8.22E+01	0.00	0.02		0.02	3.12%
195	17	Surface	Mercury	4.17E-01	0.00	0.08		0.08	15.01%
195	17	Surface	Nickel	5.93E+01	0.00	0.23	0.00	0.24	44.68%
195	17	Surface	Silver	1.01E+01	0.00	0.16		0.16	30.45%
195	17	Surface	Thallium	5.40E-01	0.01	0.03		0.04	6.73%
195	17	Surface	**Totals**		**0.02**	**0.51**	**0.00**	**0.53**	
195	17	Surface	**Percent**		**3.41%**	**96.46%**	**0.13%**		
196	1	Surface	Antimony	5.90E-01	0.00	0.04		0.04	1.76%
196	1	Surface	Chromium	1.96E+01	0.00	0.00		0.00	0.17%
196	1	Surface	Nickel	5.56E+02	0.04	2.17	0.01	2.22	96.29%
196	1	Surface	Uranium	2.33E+01	0.01	0.03	0.00	0.04	1.78%
196	1	Surface	**Totals**		**0.05**	**2.24**	**0.01**	**2.30**	
196	1	Surface	**Percent**		**2.21%**	**97.51%**	**0.28%**		
196	2	Surface	Barium	2.02E+02	0.00	0.06	0.00	0.06	15.83%
196	2	Surface	Cadmium	2.53E+00	0.00	0.01	0.00	0.01	3.17%
196	2	Surface	Chromium	2.07E+01	0.00	0.00		0.00	1.13%
196	2	Surface	Nickel	7.36E+01	0.01	0.29	0.00	0.29	79.87%
196	2	Surface	**Totals**		**0.01**	**0.36**	**0.00**	**0.37**	
196	2	Surface	**Percent**		**2.70%**	**96.89%**	**0.41%**		
200	1	Surface	Antimony	5.60E-01	0.00	0.04		0.04	2.03%
200	1	Surface	Chromium	5.75E+01	0.00	0.01		0.01	0.61%
200	1	Surface	Mercury	6.71E+00	0.03	1.25		1.28	67.77%
200	1	Surface	Nickel	1.28E+02	0.01	0.50	0.00	0.51	27.04%
200	1	Surface	Uranium	2.73E+01	0.01	0.04	0.00	0.05	2.55%
200	1	Surface	**Totals**		**0.05**	**1.83**	**0.00**	**1.89**	
200	1	Surface	**Percent**		**2.85%**	**97.06%**	**0.08%**		

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Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	1	Surface	Aluminum	1.48E+04	0.02	0.06	0.00	0.08	0.09%
204	1	Surface	Beryllium	1.36E+00	0.00	0.05	0.00	0.05	0.06%
204	1	Surface	Cadmium	2.73E+00	0.00	0.01	0.00	0.01	0.01%
204	1	Surface	Chromium	7.40E+01	0.00	0.01		0.01	0.02%
204	1	Surface	Iron	4.19E+04	0.08	0.23		0.32	0.37%
204	1	Surface	Vanadium	7.55E+01	1.48	84.22	0.00	85.70	99.44%
204	1	Surface	**Totals**		**1.58**	**84.59**	**0.00**	**86.17**	
204	1	Surface	**Percent**		**1.84%**	**98.16%**	**0.00%**		
204	2	Surface	Aluminum	1.37E+04	0.02	0.05	0.00	0.08	95.40%
204	2	Surface	Chromium	1.80E+01	0.00	0.00		0.00	4.60%
204	2	Surface	**Totals**		**0.02**	**0.06**	**0.00**	**0.08**	
204	2	Surface	**Percent**		**23.87%**	**72.55%**	**3.58%**		
204	3	Surface	Chromium	2.06E+01	0.00	0.00		0.00	100.00%
204	3	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
204	3	Surface	**Percent**		**0.45%**	**99.55%**			
204	4	Surface	Antimony	1.10E+00	0.00	0.07		0.08	92.84%
204	4	Surface	Chromium	2.89E+01	0.00	0.01		0.01	7.16%
204	4	Surface	**Totals**		**0.00**	**0.08**		**0.08**	
204	4	Surface	**Percent**		**4.67%**	**95.33%**			
204	18	Surface	Uranium	1.60E+01	0.01	0.02	0.00	0.03	100.00%
204	18	Surface	**Totals**		**0.01**	**0.02**	**0.00**	**0.03**	
204	18	Surface	**Percent**		**25.92%**	**73.88%**	**0.20%**		
204	23	Surface	Beryllium	1.33E+00	0.00	0.05	0.00	0.05	0.23%
204	23	Surface	Chromium	1.75E+02	0.00	0.04		0.04	0.15%
204	23	Surface	Uranium	1.31E+04	5.97	17.01	0.04	23.02	99.62%
204	23	Surface	**Totals**		**5.97**	**17.10**	**0.04**	**23.11**	
204	23	Surface	**Percent**		**25.83%**	**73.98%**	**0.19%**		
211	1	Surface	Chromium	4.48E+01	0.00	0.01		0.01	18.95%
211	1	Surface	Uranium	2.19E+01	0.01	0.03	0.00	0.04	81.05%
211	1	Surface	**Totals**		**0.01**	**0.04**	**0.00**	**0.05**	
211	1	Surface	**Percent**		**21.10%**	**78.74%**	**0.16%**		
212	1	Surface	Arsenic	1.44E+01	0.07	0.11	0.00	0.18	19.56%
212	1	Surface	Beryllium	8.10E-01	0.00	0.03	0.00	0.03	3.51%
212	1	Surface	Chromium	3.58E+01	0.00	0.01		0.01	0.78%
212	1	Surface	Iron	4.14E+04	0.08	0.23		0.31	34.00%
212	1	Surface	Nickel	8.69E+01	0.01	0.34	0.00	0.35	37.74%
212	1	Surface	Uranium	2.30E+01	0.01	0.03	0.00	0.04	4.42%
212	1	Surface	**Totals**		**0.16**	**0.75**	**0.00**	**0.92**	
212	1	Surface	**Percent**		**17.86%**	**81.91%**	**0.23%**		
213	1	Surface	Antimony	8.50E-01	0.00	0.06		0.06	10.72%
213	1	Surface	Chromium	4.78E+01	0.00	0.01		0.01	1.77%
213	1	Surface	Nickel	6.67E+01	0.00	0.26	0.00	0.27	48.96%
213	1	Surface	Silver	1.32E+01	0.00	0.21		0.21	38.54%
213	1	Surface	**Totals**		**0.01**	**0.53**	**0.00**	**0.54**	
213	1	Surface	**Percent**		**2.05%**	**97.81%**	**0.14%**		
213	2	Surface	Chromium	4.48E+01	0.00	0.01		0.01	1.64%
213	2	Surface	Nickel	9.10E+01	0.01	0.36	0.00	0.36	65.85%
213	2	Surface	Silver	1.13E+01	0.00	0.18		0.18	32.51%
213	2	Surface	**Totals**		**0.01**	**0.54**	**0.00**	**0.55**	
213	2	Surface	**Percent**		**1.70%**	**98.11%**	**0.19%**		
214	1	Surface	Antimony	5.70E-01	0.00	0.04		0.04	100.00%
214	1	Surface	**Totals**		**0.00**	**0.04**		**0.04**	
214	1	Surface	**Percent**		**5.00%**	**95.00%**			

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
215	1	Surface	Antimony	6.80E-01	0.00	0.04		0.05	7.27%
215	1	Surface	Chromium	5.73E+01	0.00	0.01		0.01	1.80%
215	1	Surface	Iron	3.87E+04	0.08	0.22		0.29	45.47%
215	1	Surface	Nickel	7.32E+01	0.01	0.29	0.00	0.29	45.47%
215	1	Surface	**Totals**		**0.08**	**0.56**	**0.00**	**0.64**	
215	1	Surface	**Percent**		**12.96%**	**86.91%**	**0.13%**		
216	1	Surface	Chromium	2.38E+01	0.00	0.00		0.00	100.00%
216	1	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
216	1	Surface	**Percent**		**0.45%**	**99.55%**			
217	1	Surface	Chromium	8.58E+01	0.00	0.02		0.02	1.80%
217	1	Surface	Cobalt	1.96E+01	0.09	0.25	0.00	0.35	36.22%
217	1	Surface	Manganese	7.70E+02	0.01	0.02	0.02	0.04	4.23%
217	1	Surface	Nickel	8.54E+01	0.01	0.33	0.00	0.34	35.48%
217	1	Surface	Silver	1.35E+01	0.00	0.21		0.21	22.28%
217	1	Surface	**Totals**		**0.11**	**0.83**	**0.02**	**0.96**	
217	1	Surface	**Percent**		**11.10%**	**86.79%**	**2.11%**		
217	2	Surface	Antimony	1.70E+00	0.01	0.11		0.12	3.71%
217	2	Surface	Arsenic	1.12E+01	0.05	0.09	0.00	0.14	4.42%
217	2	Surface	Chromium	1.02E+02	0.00	0.02		0.02	0.65%
217	2	Surface	Cobalt	1.74E+01	0.08	0.23	0.00	0.31	9.83%
217	2	Surface	Iron	3.09E+04	0.06	0.17		0.23	7.42%
217	2	Surface	Manganese	8.44E+02	0.01	0.02	0.02	0.04	1.41%
217	2	Surface	Mercury	8.59E+00	0.04	1.60		1.64	52.08%
217	2	Surface	Nickel	9.74E+01	0.01	0.38	0.00	0.39	12.35%
217	2	Surface	Silver	1.61E+01	0.00	0.25		0.26	8.14%
217	2	Surface	**Totals**		**0.26**	**2.86**	**0.02**	**3.14**	
217	2	Surface	**Percent**		**8.13%**	**91.16%**	**0.71%**		
219	1	Surface	Nickel	6.71E+01	0.00	0.26	0.00	0.27	100.00%
219	1	Surface	**Totals**		**0.00**	**0.26**	**0.00**	**0.27**	
219	1	Surface	**Percent**		**1.72%**	**97.99%**	**0.29%**		
221	1	Surface	Barium	2.21E+02	0.00	0.06	0.00	0.06	11.25%
221	1	Surface	Chromium	7.01E+01	0.00	0.01		0.01	2.49%
221	1	Surface	Iron	1.90E+04	0.04	0.11		0.14	25.29%
221	1	Surface	Nickel	7.93E+01	0.01	0.31	0.00	0.32	55.87%
221	1	Surface	Uranium	1.64E+01	0.01	0.02	0.00	0.03	5.10%
221	1	Surface	**Totals**		**0.05**	**0.51**	**0.00**	**0.57**	
221	1	Surface	**Percent**		**9.13%**	**90.62%**	**0.25%**		
222	1	Surface	Chromium	4.73E+01	0.00	0.01		0.01	2.24%
222	1	Surface	Nickel	9.19E+01	0.01	0.36	0.00	0.37	86.16%
222	1	Surface	Uranium	2.80E+01	0.01	0.04	0.00	0.05	11.60%
222	1	Surface	**Totals**		**0.02**	**0.40**	**0.00**	**0.42**	
222	1	Surface	**Percent**		**4.50%**	**95.23%**	**0.27%**		
224	1	Surface	Chromium	4.49E+01	0.00	0.01		0.01	11.00%
224	1	Surface	Uranium	4.15E+01	0.02	0.05	0.00	0.07	89.00%
224	1	Surface	**Totals**		**0.02**	**0.06**	**0.00**	**0.08**	
224	1	Surface	**Percent**		**23.12%**	**76.70%**	**0.17%**		
225	1	Surface	Chromium	2.55E+01	0.00	0.01		0.01	100.00%
225	1	Surface	**Totals**		**0.00**	**0.01**		**0.01**	
225	1	Surface	**Percent**		**0.45%**	**99.55%**			
226	1	Surface	Antimony	6.60E-01	0.00	0.04		0.05	1.30%
226	1	Surface	Chromium	4.25E+01	0.00	0.01		0.01	0.25%
226	1	Surface	Manganese	6.30E+02	0.01	0.01	0.01	0.03	0.95%
226	1	Surface	Mercury	9.74E+00	0.04	1.81		1.86	53.26%
226	1	Surface	Nickel	2.10E+02	0.01	0.82	0.00	0.84	23.97%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
226	1	Surface	Uranium	4.01E+02	0.18	0.52	0.00	0.71	20.28%
226	1	Surface	**Totals**		**0.25**	**3.22**	**0.02**	**3.48**	
226	1	Surface	**Percent**		**7.19%**	**92.33%**	**0.48%**		
227	1	Surface	Beryllium	5.52E-01	0.00	0.02	0.00	0.02	2.15%
227	1	Surface	Chromium	4.71E+01	0.00	0.01		0.01	0.93%
227	1	Surface	Nickel	2.03E+02	0.01	0.79	0.00	0.81	79.36%
227	1	Surface	Uranium	1.02E+02	0.05	0.13	0.00	0.18	17.56%
227	1	Surface	**Totals**		**0.06**	**0.96**	**0.00**	**1.02**	
227	1	Surface	**Percent**		**5.96%**	**93.78%**	**0.27%**		
227	2	Surface	Beryllium	5.32E-01	0.00	0.02	0.00	0.02	0.91%
227	2	Surface	Chromium	5.63E+01	0.00	0.01		0.01	0.49%
227	2	Surface	Cobalt	8.99E+00	0.04	0.12	0.00	0.16	6.88%
227	2	Surface	Mercury	8.41E+00	0.04	1.56		1.60	69.11%
227	2	Surface	Nickel	1.25E+02	0.01	0.49	0.00	0.50	21.47%
227	2	Surface	Uranium	1.51E+01	0.01	0.02	0.00	0.03	1.14%
227	2	Surface	**Totals**		**0.10**	**2.22**	**0.00**	**2.32**	
227	2	Surface	**Percent**		**4.11%**	**95.76%**	**0.13%**		
228	1	Surface	Antimony	6.30E-01	0.00	0.04		0.04	1.79%
228	1	Surface	Cadmium	3.90E+00	0.01	0.01	0.00	0.02	0.74%
228	1	Surface	Chromium	1.89E+02	0.00	0.04		0.04	1.58%
228	1	Surface	Mercury	9.37E+00	0.04	1.74		1.78	74.04%
228	1	Surface	Nickel	7.92E+01	0.01	0.31	0.00	0.32	13.08%
228	1	Surface	Silver	1.16E+01	0.00	0.18		0.18	7.67%
228	1	Surface	Uranium	1.51E+01	0.01	0.02	0.00	0.03	1.11%
228	1	Surface	**Totals**		**0.07**	**2.34**	**0.00**	**2.41**	
228	1	Surface	**Percent**		**2.74%**	**97.21%**	**0.06%**		
229	1	Surface	Nickel	9.14E+01	0.01	0.36	0.00	0.36	57.01%
229	1	Surface	Uranium	1.56E+02	0.07	0.20	0.00	0.27	42.99%
229	1	Surface	**Totals**		**0.08**	**0.56**	**0.00**	**0.64**	
229	1	Surface	**Percent**		**12.12%**	**87.63%**	**0.25%**		
229	2	Surface	Arsenic	2.12E+01	0.10	0.17	0.00	0.26	31.87%
229	2	Surface	Beryllium	7.90E-01	0.00	0.03	0.00	0.03	3.80%
229	2	Surface	Chromium	2.91E+01	0.00	0.01		0.01	0.71%
229	2	Surface	Nickel	9.93E+01	0.01	0.39	0.00	0.40	47.77%
229	2	Surface	Uranium	7.45E+01	0.03	0.10	0.00	0.13	15.85%
229	2	Surface	**Totals**		**0.14**	**0.69**	**0.00**	**0.83**	
229	2	Surface	**Percent**		**16.69%**	**82.96%**	**0.35%**		
483	1	Surface	Nickel	1.17E+02	0.01	0.46	0.00	0.46	72.31%
483	1	Surface	Silver	1.12E+01	0.00	0.17		0.18	27.69%
483	1	Surface	**Totals**		**0.01**	**0.63**	**0.00**	**0.64**	
483	1	Surface	**Percent**		**1.72%**	**98.07%**	**0.21%**		
486	1	Surface	**Totals**					**0.00**	
486	1	Surface	**Percent**						
487	1	Surface	**Totals**					**0.00**	
487	1	Surface	**Percent**						
488	1	Surface	Uranium	1.48E+01	0.01	0.02	0.00	0.03	100.00%
488	1	Surface	**Totals**		**0.01**	**0.02**	**0.00**	**0.03**	
488	1	Surface	**Percent**		**25.92%**	**73.88%**	**0.20%**		
489	1	Surface	Chromium	4.16E+01	0.00	0.01		0.01	2.60%
489	1	Surface	Nickel	7.88E+01	0.01	0.31	0.00	0.31	97.40%
489	1	Surface	**Totals**		**0.01**	**0.32**	**0.00**	**0.32**	
489	1	Surface	**Percent**		**1.69%**	**98.03%**	**0.28%**		
492	1	Surface	Arsenic	1.47E+01	0.07	0.11	0.00	0.18	0.35%

SWMU = solid waste management unit
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COPC = chemical of potential concern
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HI = hazard index

Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
492	1	Surface	Beryllium	1.04E+01	0.01	0.41	0.00	0.41	0.78%
492	1	Surface	Cadmium	3.14E+00	0.00	0.01	0.00	0.01	0.03%
492	1	Surface	Chromium	1.04E+03	0.00	0.21		0.21	0.39%
492	1	Surface	Uranium	1.77E+03	0.81	2.30	0.01	3.12	5.89%
492	1	Surface	Vanadium	4.32E+01	0.85	48.19	0.00	49.03	92.57%
492	1	Surface	**Totals**		**1.73**	**51.23**	**0.01**	**52.97**	
492	1	Surface	**Percent**		**3.27%**	**96.71%**	**0.02%**		
493	1	Surface	Aluminum	1.44E+04	0.02	0.06	0.00	0.08	0.16%
493	1	Surface	Barium	4.04E+02	0.00	0.11	0.00	0.12	0.24%
493	1	Surface	Beryllium	9.91E-01	0.00	0.04	0.00	0.04	0.08%
493	1	Surface	Chromium	6.61E+01	0.00	0.01		0.01	0.03%
493	1	Surface	Cobalt	3.79E+01	0.17	0.49	0.01	0.67	1.40%
493	1	Surface	Manganese	3.55E+03	0.03	0.08	0.07	0.19	0.39%
493	1	Surface	Mercury	2.60E-01	0.00	0.05		0.05	0.10%
493	1	Surface	Nickel	2.13E+02	0.01	0.83	0.00	0.85	1.77%
493	1	Surface	Vanadium	4.05E+01	0.79	45.18	0.00	45.97	95.82%
493	1	Surface	**Totals**		**1.04**	**46.85**	**0.09**	**47.97**	
493	1	Surface	**Percent**		**2.17%**	**97.65%**	**0.18%**		
517	1	Surface	Beryllium	7.39E-01	0.00	0.03	0.00	0.03	4.06%
517	1	Surface	Chromium	4.91E+01	0.00	0.01		0.01	1.36%
517	1	Surface	Nickel	1.72E+02	0.01	0.67	0.00	0.69	94.58%
517	1	Surface	**Totals**		**0.01**	**0.71**	**0.00**	**0.72**	
517	1	Surface	**Percent**		**1.70%**	**98.02%**	**0.28%**		
518	1	Surface	Cobalt	6.80E+00	0.03	0.09	0.00	0.12	21.20%
518	1	Surface	Nickel	1.29E+01	0.00	0.05	0.00	0.05	8.99%
518	1	Surface	Pyrene	3.94E+01	0.00	0.01	0.00	0.02	2.70%
518	1	Surface	Uranium	2.17E+02	0.10	0.28	0.00	0.38	67.10%
518	1	Surface	**Totals**		**0.13**	**0.43**	**0.00**	**0.57**	
518	1	Surface	**Percent**		**23.32%**	**76.27%**	**0.41%**		
520	1	Surface	Chromium	3.17E+01	0.00	0.01		0.01	0.19%
520	1	Surface	Iron	1.56E+04	0.03	0.09		0.12	3.41%
520	1	Surface	Mercury	1.07E+01	0.05	1.99		2.03	59.10%
520	1	Surface	Nickel	2.60E+02	0.02	1.02	0.00	1.04	30.14%
520	1	Surface	Silver	1.30E+01	0.00	0.20		0.21	5.99%
520	1	Surface	Uranium	2.29E+01	0.01	0.03	0.00	0.04	1.17%
520	1	Surface	**Totals**		**0.11**	**3.33**	**0.00**	**3.44**	
520	1	Surface	**Percent**		**3.23%**	**96.68%**	**0.09%**		
520	2	Surface	Beryllium	5.79E-01	0.00	0.02	0.00	0.02	0.63%
520	2	Surface	Chromium	6.67E+01	0.00	0.01		0.01	0.37%
520	2	Surface	Manganese	5.89E+02	0.01	0.01	0.01	0.03	0.85%
520	2	Surface	Mercury	1.19E+01	0.05	2.21		2.26	62.22%
520	2	Surface	Nickel	3.11E+02	0.02	1.21	0.00	1.24	34.01%
520	2	Surface	Uranium	3.96E+01	0.02	0.05	0.00	0.07	1.92%
520	2	Surface	**Totals**		**0.10**	**3.52**	**0.02**	**3.64**	
520	2	Surface	**Percent**		**2.74%**	**96.82%**	**0.44%**		
520	3	Surface	Chromium	3.97E+01	0.00	0.01		0.01	0.61%
520	3	Surface	Copper	1.19E+02	0.00	0.01		0.02	1.19%
520	3	Surface	Nickel	2.65E+02	0.02	1.03	0.00	1.05	80.30%
520	3	Surface	Silver	1.27E+01	0.00	0.20		0.20	15.32%
520	3	Surface	Uranium	1.92E+01	0.01	0.03	0.00	0.03	2.58%
520	3	Surface	**Totals**		**0.03**	**1.28**	**0.00**	**1.31**	
520	3	Surface	**Percent**		**2.63%**	**97.14%**	**0.24%**		
520	4	Surface	Chromium	3.82E+01	0.00	0.01		0.01	0.24%
520	4	Surface	Copper	1.11E+02	0.00	0.01		0.01	0.46%

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Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
520	4	Surface	Mercury	9.69E+00	0.04	1.80		1.85	57.69%
520	4	Surface	Nickel	2.82E+02	0.02	1.10	0.00	1.12	35.10%
520	4	Surface	Silver	1.04E+01	0.00	0.16		0.17	5.19%
520	4	Surface	Uranium	2.40E+01	0.01	0.03	0.00	0.04	1.32%
520	4	Surface	**Totals**		**0.08**	**3.11**	**0.00**	**3.20**	
520	4	Surface	**Percent**		**2.54%**	**97.36%**	**0.10%**		
520	5	Surface	Antimony	9.60E-01	0.00	0.06		0.07	9.99%
520	5	Surface	Chromium	3.68E+01	0.00	0.01		0.01	1.12%
520	5	Surface	Nickel	1.47E+02	0.01	0.57	0.00	0.59	88.89%
520	5	Surface	**Totals**		**0.01**	**0.64**	**0.00**	**0.66**	
520	5	Surface	**Percent**		**2.03%**	**97.71%**	**0.26%**		
531	1	Surface	Antimony	1.00E+00	0.00	0.07		0.07	3.73%
531	1	Surface	Arsenic	4.68E+01	0.21	0.37	0.00	0.58	31.74%
531	1	Surface	Cadmium	3.10E+00	0.00	0.01	0.00	0.01	0.78%
531	1	Surface	Chromium	5.05E+01	0.00	0.01		0.01	0.55%
531	1	Surface	Iron	5.68E+04	0.11	0.32		0.43	23.33%
531	1	Surface	Nickel	1.62E+02	0.01	0.63	0.00	0.65	35.21%
531	1	Surface	Uranium	2.41E+01	0.01	0.03	0.00	0.04	2.31%
531	1	Surface	Zinc	2.45E+03	0.01	0.03		0.04	2.35%
531	1	Surface	**Totals**		**0.37**	**1.46**	**0.01**	**1.84**	
531	1	Surface	**Percent**		**19.94%**	**79.76%**	**0.30%**		
541	1	Surface	Aluminum	1.43E+04	0.02	0.06	0.00	0.08	0.17%
541	1	Surface	Barium	1.28E+02	0.00	0.04	0.00	0.04	0.08%
541	1	Surface	Beryllium	6.98E-01	0.00	0.03	0.00	0.03	0.06%
541	1	Surface	Cadmium	1.68E+00	0.00	0.01	0.00	0.01	0.02%
541	1	Surface	Chromium	8.24E+02	0.00	0.16		0.17	0.36%
541	1	Surface	Iron	1.60E+04	0.03	0.09		0.12	0.26%
541	1	Surface	Mercury	9.81E-02	0.00	0.02		0.02	0.04%
541	1	Surface	Naphthalene	6.55E-01	0.00	0.00	0.01	0.01	0.02%
541	1	Surface	Nickel	1.52E+01	0.00	0.06	0.00	0.06	0.13%
541	1	Surface	Uranium	6.38E+03	2.91	8.31	0.02	11.24	24.27%
541	1	Surface	Vanadium	3.04E+01	0.60	33.95	0.00	34.55	74.59%
541	1	Surface	**Totals**		**3.57**	**42.72**	**0.03**	**46.32**	
541	1	Surface	**Percent**		**7.70%**	**92.23%**	**0.07%**		
561	1	Surface	Antimony	9.36E-01	0.00	0.06		0.06	0.15%
561	1	Surface	Arsenic	1.66E+01	0.08	0.13	0.00	0.21	0.47%
561	1	Surface	Barium	1.40E+02	0.00	0.04	0.00	0.04	0.09%
561	1	Surface	Beryllium	6.85E-01	0.00	0.03	0.00	0.03	0.06%
561	1	Surface	Chromium	8.58E+01	0.00	0.02		0.02	0.04%
561	1	Surface	Cobalt	1.07E+01	0.05	0.14	0.00	0.19	0.43%
561	1	Surface	Iron	2.05E+04	0.04	0.11		0.15	0.35%
561	1	Surface	Manganese	1.61E+03	0.02	0.04	0.03	0.08	0.19%
561	1	Surface	Thallium	3.33E-01	0.01	0.02		0.02	0.05%
561	1	Surface	Uranium	2.65E+02	0.12	0.34	0.00	0.47	1.06%
561	1	Surface	Vanadium	3.76E+01	0.74	41.99	0.00	42.72	97.11%
561	1	Surface	**Totals**		**1.05**	**42.91**	**0.04**	**43.99**	
561	1	Surface	**Percent**		**2.38%**	**97.53%**	**0.09%**		
561	2	Surface	Antimony	5.33E+00	0.02	0.35		0.37	0.86%
561	2	Surface	Arsenic	1.30E+01	0.06	0.10	0.00	0.16	0.38%
561	2	Surface	Beryllium	6.34E-01	0.00	0.02	0.00	0.03	0.06%
561	2	Surface	Cadmium	4.13E-01	0.00	0.00	0.00	0.00	0.00%
561	2	Surface	Chromium	2.88E+02	0.00	0.06		0.06	0.14%
561	2	Surface	Cobalt	1.14E+01	0.05	0.15	0.00	0.20	0.48%
561	2	Surface	Manganese	1.12E+03	0.01	0.02	0.02	0.06	0.14%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.26. HIs for the Adult Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
561	2	Surface	Thallium	4.09E-01	0.01	0.02		0.03	0.06%
561	2	Surface	Uranium	1.38E+03	0.63	1.80	0.00	2.44	5.72%
561	2	Surface	Vanadium	3.46E+01	0.68	38.54	0.00	39.22	92.16%
561	2	Surface	**Totals**		**1.46**	**41.06**	**0.03**	**42.55**	
561	2	Surface	**Percent**		**3.42%**	**96.50%**	**0.07%**		
562	1	Surface	Uranium	8.73E+01	0.04	0.11	0.00	0.15	100.00%
562	1	Surface	**Totals**		**0.04**	**0.11**	**0.00**	**0.15**	
562	1	Surface	**Percent**		**25.92%**	**73.88%**	**0.20%**		
562	2	Surface	**Totals**					**0.00**	
562	2	Surface	**Percent**						
562	3	Surface	Chromium	3.82E+01	0.00	0.01		0.01	6.89%
562	3	Surface	Uranium	5.89E+01	0.03	0.08	0.00	0.10	93.11%
562	3	Surface	**Totals**		**0.03**	**0.08**	**0.00**	**0.11**	
562	3	Surface	**Percent**		**24.17%**	**75.65%**	**0.18%**		
562	4	Surface	Chromium	4.67E+01	0.00	0.01		0.01	20.24%
562	4	Surface	Uranium	2.10E+01	0.01	0.03	0.00	0.04	79.76%
562	4	Surface	**Totals**		**0.01**	**0.04**	**0.00**	**0.05**	
562	4	Surface	**Percent**		**20.77%**	**79.08%**	**0.16%**		
562	5	Surface	Chromium	1.53E+02	0.00	0.03		0.03	7.75%
562	5	Surface	Uranium	2.08E+02	0.09	0.27	0.00	0.37	92.25%
562	5	Surface	**Totals**		**0.10**	**0.30**	**0.00**	**0.40**	
562	5	Surface	**Percent**		**23.95%**	**75.87%**	**0.18%**		
563	1	Surface	Cadmium	8.96E-01	0.00	0.00	0.00	0.00	4.68%
563	1	Surface	Chromium	2.85E+02	0.00	0.06		0.06	65.12%
563	1	Surface	Uranium	1.51E+01	0.01	0.02	0.00	0.03	30.20%
563	1	Surface	**Totals**		**0.01**	**0.08**	**0.00**	**0.09**	
563	1	Surface	**Percent**		**9.52%**	**90.32%**	**0.16%**		
563	2	Surface	**Totals**					**0.00**	
563	2	Surface	**Percent**						
564	1	Surface	Arsenic	4.30E+01	0.20	0.34	0.00	0.54	0.58%
564	1	Surface	Beryllium	2.12E+00	0.00	0.08	0.00	0.08	0.09%
564	1	Surface	Cadmium	1.96E+00	0.00	0.01	0.00	0.01	0.01%
564	1	Surface	Chromium	7.49E+01	0.00	0.01		0.02	0.02%
564	1	Surface	Iron	3.66E+04	0.07	0.20		0.28	0.30%
564	1	Surface	Mercury	2.30E-01	0.00	0.04		0.04	0.05%
564	1	Surface	Nickel	2.24E+01	0.00	0.09	0.00	0.09	0.10%
564	1	Surface	Thallium	2.36E+00	0.04	0.12		0.16	0.17%
564	1	Surface	Uranium	5.83E+01	0.03	0.08	0.00	0.10	0.11%
564	1	Surface	Vanadium	8.06E+01	1.58	89.91	0.00	91.48	98.59%
564	1	Surface	**Totals**		**1.92**	**90.87**	**0.00**	**92.79**	
564	1	Surface	**Percent**		**2.07%**	**97.93%**	**0.00%**		
567	3	Surface	Chromium	3.79E+01	0.00	0.01		0.01	100.00%
567	3	Surface	**Totals**		**0.00**	**0.01**		**0.01**	
567	3	Surface	**Percent**		**0.45%**	**99.55%**			
567	4	Surface	Aluminum	1.25E+04	0.02	0.05	0.00	0.07	95.44%
567	4	Surface	Chromium	1.63E+01	0.00	0.00		0.00	4.56%
567	4	Surface	**Totals**		**0.02**	**0.05**	**0.00**	**0.07**	
567	4	Surface	**Percent**		**23.88%**	**72.53%**	**3.59%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
1	1	Surface	Beryllium	3.89E+00	0.00	0.13	0.00	0.13	96.04%
1	1	Surface	Cadmium	1.10E+00	0.00	0.00	0.00	0.00	2.35%
1	1	Surface	Chromium	1.28E+01	0.00	0.00		0.00	1.62%
1	1	Surface	**Totals**		**0.00**	**0.14**	**0.00**	**0.14**	
1	1	Surface	**Percent**		**0.42%**	**99.49%**	**0.09%**		
1	2	Surface	Beryllium	8.23E+00	0.00	0.28	0.00	0.28	0.78%
1	2	Surface	Cadmium	6.46E+00	0.00	0.02	0.00	0.02	0.05%
1	2	Surface	Chromium	2.01E+02	0.00	0.03		0.03	0.10%
1	2	Surface	Copper	1.81E+02	0.00	0.02		0.02	0.05%
1	2	Surface	Mercury	5.94E+00	0.00	0.95		0.95	2.69%
1	2	Surface	Nickel	5.75E+01	0.00	0.19	0.00	0.19	0.55%
1	2	Surface	Silver	3.31E+01	0.00	0.44		0.44	1.26%
1	2	Surface	Thallium	3.70E-01	0.00	0.02		0.02	0.05%
1	2	Surface	Vanadium	3.49E+01	0.09	33.32	0.00	33.41	94.49%
1	2	Surface	**Totals**		**0.10**	**35.26**	**0.00**	**35.36**	
1	2	Surface	**Percent**		**0.29%**	**99.71%**	**0.00%**		
1	3	Surface	Chromium	1.45E+01	0.00	0.00		0.00	100.00%
1	3	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
1	3	Surface	**Percent**		**0.07%**	**99.93%**			
1	4	Surface	Beryllium	7.25E-01	0.00	0.02	0.00	0.02	12.31%
1	4	Surface	Chromium	9.30E+01	0.00	0.02		0.02	8.08%
1	4	Surface	Nickel	4.69E+01	0.00	0.16	0.00	0.16	79.62%
1	4	Surface	**Totals**		**0.00**	**0.20**	**0.00**	**0.20**	
1	4	Surface	**Percent**		**0.26%**	**99.62%**	**0.12%**		
1	5	Surface	Beryllium	8.30E+00	0.00	0.28	0.00	0.28	66.52%
1	5	Surface	Cadmium	1.20E+00	0.00	0.00	0.00	0.00	0.83%
1	5	Surface	Nickel	4.07E+01	0.00	0.14	0.00	0.14	32.65%
1	5	Surface	**Totals**		**0.00**	**0.42**	**0.00**	**0.42**	
1	5	Surface	**Percent**		**0.33%**	**99.57%**	**0.10%**		
12	1	Surface	Aluminum	8.19E+03	0.00	0.03	0.00	0.03	0.10%
12	1	Surface	Antimony	5.04E-01	0.00	0.03		0.03	0.09%
12	1	Surface	Arsenic	1.34E+01	0.01	0.09	0.00	0.10	0.33%
12	1	Surface	Barium	1.04E+02	0.00	0.02	0.00	0.02	0.08%
12	1	Surface	Beryllium	6.72E+00	0.00	0.22	0.00	0.23	0.75%
12	1	Surface	Cadmium	1.02E+00	0.00	0.00	0.00	0.00	0.01%
12	1	Surface	Chromium	6.33E+01	0.00	0.01		0.01	0.04%
12	1	Surface	Cobalt	9.16E+00	0.01	0.10	0.00	0.11	0.36%
12	1	Surface	Iron	3.01E+04	0.01	0.14		0.15	0.51%
12	1	Surface	Manganese	1.01E+03	0.00	0.02	0.01	0.03	0.10%
12	1	Surface	Mercury	8.80E+00	0.01	1.40		1.41	4.71%
12	1	Surface	Molybdenum	1.74E+01	0.00	0.01		0.01	0.04%
12	1	Surface	Nickel	7.74E+01	0.00	0.26	0.00	0.26	0.87%
12	1	Surface	Silver	1.10E+01	0.00	0.15		0.15	0.49%
12	1	Surface	Thallium	1.03E+00	0.00	0.04		0.05	0.15%
12	1	Surface	Uranium	3.76E+02	0.02	0.42	0.00	0.44	1.48%
12	1	Surface	Vanadium	2.80E+01	0.07	26.79	0.00	26.86	89.88%
12	1	Surface	**Totals**		**0.13**	**29.74**	**0.01**	**29.89**	
12	1	Surface	**Percent**		**0.45%**	**99.52%**	**0.04%**		
13	1	Surface	**Totals**					**0.00**	
13	1	Surface	**Percent**						
13	4	Surface	**Totals**					**0.00**	
13	4	Surface	**Percent**						
13	5	Surface	Aluminum	1.13E+04	0.00	0.04	0.00	0.04	6.52%
13	5	Surface	Antimony	8.20E-01	0.00	0.05		0.05	7.38%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
13	5	Surface	Cadmium	1.20E+00	0.00	0.00	0.00	0.00	0.56%
13	5	Surface	Chromium	1.51E+01	0.00	0.00		0.00	0.42%
13	5	Surface	Nickel	1.17E+02	0.00	0.39	0.00	0.39	62.66%
13	5	Surface	Uranium	1.19E+02	0.01	0.13	0.00	0.14	22.47%
13	5	Surface	**Totals**		**0.01**	**0.61**	**0.00**	**0.62**	
13	5	Surface	**Percent**		**1.79%**	**97.94%**	**0.27%**		
13	6	Surface	**Totals**					**0.00**	
13	6	Surface	**Percent**						
13	9	Surface	Uranium	1.82E+01	0.00	0.02	0.00	0.02	100.00%
13	9	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.02**	
13	9	Surface	**Percent**		**5.26%**	**94.62%**	**0.12%**		
13	11	Surface	**Totals**					**0.00**	
13	11	Surface	**Percent**						
14	1	Surface	Arsenic	1.10E+01	0.01	0.07	0.00	0.08	8.35%
14	1	Surface	Chromium	6.36E+01	0.00	0.01		0.01	1.13%
14	1	Surface	Iron	1.89E+04	0.01	0.09		0.10	9.86%
14	1	Surface	Nickel	1.40E+02	0.00	0.47	0.00	0.47	48.64%
14	1	Surface	Silver	1.67E+01	0.00	0.22		0.22	23.21%
14	1	Surface	Uranium	7.21E+01	0.00	0.08	0.00	0.09	8.81%
14	1	Surface	**Totals**		**0.02**	**0.95**	**0.00**	**0.96**	
14	1	Surface	**Percent**		**1.89%**	**98.00%**	**0.11%**		
14	2	Surface	Antimony	3.70E+00	0.00	0.21		0.21	6.38%
14	2	Surface	Arsenic	1.45E+01	0.01	0.10	0.00	0.11	3.27%
14	2	Surface	Beryllium	7.10E-01	0.00	0.02	0.00	0.02	0.73%
14	2	Surface	Chromium	6.65E+01	0.00	0.01		0.01	0.35%
14	2	Surface	Copper	1.76E+02	0.00	0.01		0.02	0.48%
14	2	Surface	Iron	3.72E+04	0.01	0.18		0.19	5.75%
14	2	Surface	Manganese	1.44E+03	0.00	0.03	0.01	0.04	1.28%
14	2	Surface	Mercury	2.67E-01	0.00	0.04		0.04	1.31%
14	2	Surface	Nickel	6.78E+02	0.01	2.27	0.00	2.28	69.85%
14	2	Surface	Uranium	2.93E+02	0.02	0.33	0.00	0.35	10.60%
14	2	Surface	**Totals**		**0.05**	**3.20**	**0.02**	**3.26**	
14	2	Surface	**Percent**		**1.47%**	**98.03%**	**0.49%**		
14	3	Surface	Arsenic	1.30E+01	0.01	0.09	0.00	0.10	2.55%
14	3	Surface	Chromium	7.01E+01	0.00	0.01		0.01	0.32%
14	3	Surface	Copper	1.29E+02	0.00	0.01		0.01	0.31%
14	3	Surface	Iron	3.48E+04	0.01	0.17		0.18	4.71%
14	3	Surface	Manganese	1.06E+03	0.00	0.02	0.01	0.03	0.82%
14	3	Surface	Mercury	7.48E+00	0.00	1.19		1.20	32.07%
14	3	Surface	Molybdenum	2.21E+01	0.00	0.01		0.02	0.42%
14	3	Surface	Nickel	5.76E+02	0.01	1.93	0.00	1.94	51.92%
14	3	Surface	Uranium	2.18E+02	0.01	0.24	0.00	0.26	6.88%
14	3	Surface	**Totals**		**0.04**	**3.67**	**0.01**	**3.73**	
14	3	Surface	**Percent**		**1.17%**	**98.50%**	**0.33%**		
14	4	Surface	Antimony	4.30E+00	0.00	0.24		0.24	6.52%
14	4	Surface	Arsenic	1.33E+01	0.01	0.09	0.00	0.10	2.63%
14	4	Surface	Chromium	7.20E+01	0.00	0.01		0.01	0.33%
14	4	Surface	Copper	3.54E+02	0.00	0.03		0.03	0.84%
14	4	Surface	Iron	3.88E+04	0.01	0.19		0.20	5.29%
14	4	Surface	Mercury	4.87E-01	0.00	0.08		0.08	2.10%
14	4	Surface	Nickel	7.31E+02	0.01	2.44	0.00	2.45	66.22%
14	4	Surface	Silver	1.17E+01	0.00	0.16		0.16	4.24%
14	4	Surface	Uranium	3.72E+02	0.02	0.41	0.00	0.44	11.82%
14	4	Surface	**Totals**		**0.05**	**3.65**	**0.00**	**3.71**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
14	4	Surface	**Percent**		**1.42%**	**98.46%**	**0.12%**		
14	5	Surface	Antimony	2.30E+00	0.00	0.13		0.13	2.91%
14	5	Surface	Arsenic	1.31E+01	0.01	0.09	0.00	0.10	2.16%
14	5	Surface	Cadmium	3.90E+00	0.00	0.01	0.00	0.01	0.25%
14	5	Surface	Chromium	4.70E+01	0.00	0.01		0.01	0.18%
14	5	Surface	Cobalt	1.40E+01	0.01	0.16	0.00	0.17	3.73%
14	5	Surface	Copper	1.34E+02	0.00	0.01		0.01	0.27%
14	5	Surface	Iron	3.92E+04	0.01	0.19		0.20	4.45%
14	5	Surface	Manganese	8.28E+02	0.00	0.02	0.01	0.02	0.54%
14	5	Surface	Mercury	1.09E+01	0.01	1.74		1.75	39.38%
14	5	Surface	Nickel	4.61E+02	0.00	1.54	0.00	1.55	34.88%
14	5	Surface	Silver	1.29E+01	0.00	0.17		0.17	3.89%
14	5	Surface	Thallium	4.10E-01	0.00	0.02		0.02	0.41%
14	5	Surface	Uranium	2.62E+02	0.02	0.29	0.00	0.31	6.95%
14	5	Surface	**Totals**		**0.06**	**4.37**	**0.01**	**4.44**	
14	5	Surface	**Percent**		**1.34%**	**98.42%**	**0.25%**		
14	6	Surface	Antimony	2.70E+00	0.00	0.15		0.15	3.47%
14	6	Surface	Cadmium	8.40E-01	0.00	0.00	0.00	0.00	0.06%
14	6	Surface	Chromium	4.46E+02	0.00	0.08		0.08	1.75%
14	6	Surface	Copper	1.22E+02	0.00	0.01		0.01	0.25%
14	6	Surface	Mercury	3.47E-01	0.00	0.06		0.06	1.27%
14	6	Surface	Nickel	9.63E+02	0.01	3.22	0.00	3.24	73.97%
14	6	Surface	Silver	1.19E+01	0.00	0.16		0.16	3.64%
14	6	Surface	Uranium	5.79E+02	0.04	0.65	0.00	0.68	15.59%
14	6	Surface	**Totals**		**0.05**	**4.32**	**0.01**	**4.37**	
14	6	Surface	**Percent**		**1.09%**	**98.79%**	**0.12%**		
14	7	Surface	Antimony	7.50E-01	0.00	0.04		0.04	0.72%
14	7	Surface	Arsenic	1.13E+01	0.01	0.08	0.00	0.08	1.41%
14	7	Surface	Cadmium	2.70E+00	0.00	0.01	0.00	0.01	0.13%
14	7	Surface	Chromium	6.46E+01	0.00	0.01		0.01	0.19%
14	7	Surface	Mercury	7.82E+00	0.00	1.25		1.25	21.21%
14	7	Surface	Nickel	1.22E+03	0.01	4.09	0.01	4.11	69.69%
14	7	Surface	Uranium	3.33E+02	0.02	0.37	0.00	0.39	6.65%
14	7	Surface	**Totals**		**0.04**	**5.84**	**0.01**	**5.89**	
14	7	Surface	**Percent**		**0.76%**	**99.13%**	**0.11%**		
14	8	Surface	Antimony	6.10E-01	0.00	0.03		0.03	0.82%
14	8	Surface	Arsenic	1.14E+01	0.01	0.08	0.00	0.08	2.00%
14	8	Surface	Chromium	4.60E+01	0.00	0.01		0.01	0.19%
14	8	Surface	Mercury	7.90E+00	0.00	1.26		1.26	30.28%
14	8	Surface	Nickel	6.73E+02	0.01	2.25	0.00	2.26	54.14%
14	8	Surface	Silver	9.63E+00	0.00	0.13		0.13	3.10%
14	8	Surface	Uranium	3.35E+02	0.02	0.37	0.00	0.40	9.47%
14	8	Surface	**Totals**		**0.04**	**4.13**	**0.00**	**4.17**	
14	8	Surface	**Percent**		**0.95%**	**98.96%**	**0.09%**		
14	9	Surface	Antimony	2.00E+00	0.00	0.11		0.11	2.12%
14	9	Surface	Arsenic	1.40E+01	0.01	0.09	0.00	0.10	1.94%
14	9	Surface	Cadmium	9.40E-01	0.00	0.00	0.00	0.00	0.05%
14	9	Surface	Chromium	4.64E+01	0.00	0.01		0.01	0.15%
14	9	Surface	Mercury	1.13E+00	0.00	0.18		0.18	3.41%
14	9	Surface	Nickel	9.43E+02	0.01	3.16	0.00	3.17	59.78%
14	9	Surface	Uranium	1.46E+03	0.09	1.63	0.00	1.73	32.54%
14	9	Surface	**Totals**		**0.11**	**5.18**	**0.01**	**5.30**	
14	9	Surface	**Percent**		**2.07%**	**97.80%**	**0.13%**		
14	10	Surface	Antimony	9.40E-01	0.00	0.05		0.05	0.79%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
14	10	Surface	Arsenic	1.12E+01	0.01	0.08	0.00	0.08	1.24%
14	10	Surface	Chromium	4.19E+01	0.00	0.01		0.01	0.11%
14	10	Surface	Copper	1.41E+02	0.00	0.01		0.01	0.19%
14	10	Surface	Iron	2.75E+04	0.01	0.13		0.14	2.08%
14	10	Surface	Mercury	2.51E+01	0.02	4.00		4.01	60.22%
14	10	Surface	Nickel	6.00E+02	0.01	2.01	0.00	2.02	30.27%
14	10	Surface	Uranium	2.88E+02	0.02	0.32	0.00	0.34	5.10%
14	10	Surface	**Totals**		**0.05**	**6.60**	**0.00**	**6.66**	
14	10	Surface	**Percent**		**0.82%**	**99.13%**	**0.05%**		
15	1	Surface	Antimony	6.40E-01	0.00	0.04		0.04	3.79%
15	1	Surface	Arsenic	1.24E+01	0.01	0.08	0.00	0.09	9.56%
15	1	Surface	Chromium	5.61E+01	0.00	0.01		0.01	1.01%
15	1	Surface	Copper	1.95E+02	0.00	0.02		0.02	1.81%
15	1	Surface	Iron	2.95E+04	0.01	0.14		0.15	15.69%
15	1	Surface	Nickel	1.33E+02	0.00	0.44	0.00	0.45	46.92%
15	1	Surface	Silver	1.23E+01	0.00	0.16		0.16	17.37%
15	1	Surface	Uranium	3.09E+01	0.00	0.03	0.00	0.04	3.84%
15	1	Surface	**Totals**		**0.02**	**0.93**	**0.00**	**0.95**	
15	1	Surface	**Percent**		**2.14%**	**97.75%**	**0.11%**		
15	2	Surface	Antimony	6.60E-01	0.00	0.04		0.04	1.39%
15	2	Surface	Arsenic	1.63E+01	0.01	0.11	0.00	0.12	4.46%
15	2	Surface	Chromium	5.90E+01	0.00	0.01		0.01	0.38%
15	2	Surface	Iron	3.89E+04	0.01	0.19		0.20	7.34%
15	2	Surface	Mercury	9.33E+00	0.01	1.49		1.49	55.83%
15	2	Surface	Nickel	1.97E+02	0.00	0.66	0.00	0.66	24.79%
15	2	Surface	Uranium	1.32E+02	0.01	0.15	0.00	0.16	5.81%
15	2	Surface	**Totals**		**0.04**	**2.63**	**0.00**	**2.67**	
15	2	Surface	**Percent**		**1.37%**	**98.58%**	**0.06%**		
15	3	Surface	Antimony	2.45E+01	0.01	1.37		1.38	22.97%
15	3	Surface	Arsenic	2.60E+01	0.02	0.17	0.00	0.19	3.18%
15	3	Surface	Beryllium	7.60E-01	0.00	0.03	0.00	0.03	0.43%
15	3	Surface	Cadmium	1.19E+01	0.00	0.03	0.00	0.03	0.58%
15	3	Surface	Chromium	7.53E+01	0.00	0.01		0.01	0.22%
15	3	Surface	Cobalt	3.41E+01	0.02	0.38	0.00	0.40	6.73%
15	3	Surface	Copper	1.40E+03	0.01	0.12		0.12	2.06%
15	3	Surface	Iron	9.20E+04	0.02	0.44		0.46	7.74%
15	3	Surface	Manganese	1.60E+03	0.00	0.03	0.01	0.05	0.77%
15	3	Surface	Mercury	2.74E+00	0.00	0.44		0.44	7.31%
15	3	Surface	Molybdenum	1.70E+01	0.00	0.01		0.01	0.20%
15	3	Surface	Nickel	7.57E+02	0.01	2.53	0.00	2.54	42.38%
15	3	Surface	Selenium	2.65E+01	0.00	0.02	0.00	0.02	0.31%
15	3	Surface	Silver	3.20E+00	0.00	0.04		0.04	0.72%
15	3	Surface	Uranium	2.16E+02	0.01	0.24	0.00	0.25	4.24%
15	3	Surface	Zinc	8.79E+02	0.00	0.01		0.01	0.17%
15	3	Surface	**Totals**		**0.11**	**5.87**	**0.02**	**6.00**	
15	3	Surface	**Percent**		**1.81%**	**97.84%**	**0.35%**		
15	4	Surface	Antimony	7.40E+00	0.00	0.41		0.42	4.92%
15	4	Surface	Arsenic	3.47E+01	0.02	0.23	0.00	0.25	3.01%
15	4	Surface	Cadmium	1.40E+00	0.00	0.00	0.00	0.00	0.05%
15	4	Surface	Chromium	1.02E+02	0.00	0.02		0.02	0.21%
15	4	Surface	Copper	7.05E+02	0.00	0.06		0.06	0.74%
15	4	Surface	Iron	7.81E+04	0.02	0.37		0.39	4.66%
15	4	Surface	Manganese	1.54E+03	0.00	0.03	0.01	0.04	0.52%
15	4	Surface	Mercury	1.41E+01	0.01	2.24		2.25	26.65%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	4	Surface	Nickel	1.37E+03	0.01	4.60	0.01	4.62	54.59%
15	4	Surface	Silver	1.46E+01	0.00	0.20		0.20	2.32%
15	4	Surface	Uranium	1.57E+02	0.01	0.17	0.00	0.18	2.18%
15	4	Surface	Zinc	1.19E+03	0.00	0.01		0.01	0.17%
15	4	Surface	**Totals**		**0.08**	**8.35**	**0.02**	**8.45**	
15	4	Surface	**Percent**		**0.99%**	**98.77%**	**0.24%**		
15	5	Surface	Antimony	3.10E+00	0.00	0.17		0.17	5.79%
15	5	Surface	Arsenic	1.28E+01	0.01	0.09	0.00	0.09	3.12%
15	5	Surface	Cadmium	1.50E+00	0.00	0.00	0.00	0.00	0.14%
15	5	Surface	Chromium	4.28E+01	0.00	0.01		0.01	0.24%
15	5	Surface	Copper	5.63E+03	0.03	0.47		0.50	16.52%
15	5	Surface	Mercury	3.38E-01	0.00	0.05		0.05	1.80%
15	5	Surface	Nickel	5.10E+02	0.00	1.71	0.00	1.71	56.93%
15	5	Surface	Silver	1.46E+01	0.00	0.20		0.20	6.51%
15	5	Surface	Uranium	2.13E+02	0.01	0.24	0.00	0.25	8.35%
15	5	Surface	Zinc	1.52E+03	0.00	0.02		0.02	0.60%
15	5	Surface	**Totals**		**0.06**	**2.95**	**0.00**	**3.01**	
15	5	Surface	**Percent**		**1.84%**	**98.05%**	**0.10%**		
15	6	Surface	Antimony	5.10E+00	0.00	0.28		0.29	13.28%
15	6	Surface	Arsenic	1.24E+01	0.01	0.08	0.00	0.09	4.22%
15	6	Surface	Cadmium	1.50E+00	0.00	0.00	0.00	0.00	0.20%
15	6	Surface	Chromium	5.80E+01	0.00	0.01		0.01	0.46%
15	6	Surface	Cobalt	1.62E+01	0.01	0.18	0.00	0.19	8.88%
15	6	Surface	Copper	4.23E+02	0.00	0.04		0.04	1.73%
15	6	Surface	Iron	3.15E+04	0.01	0.15		0.16	7.36%
15	6	Surface	Mercury	4.10E-01	0.00	0.07		0.07	3.04%
15	6	Surface	Nickel	3.24E+02	0.00	1.08	0.00	1.09	50.40%
15	6	Surface	Silver	1.09E+01	0.00	0.15		0.15	6.78%
15	6	Surface	Uranium	6.70E+01	0.00	0.07	0.00	0.08	3.66%
15	6	Surface	**Totals**		**0.04**	**2.12**	**0.00**	**2.16**	
15	6	Surface	**Percent**		**1.78%**	**98.07%**	**0.15%**		
15	7	Surface	Antimony	7.50E-01	0.00	0.04		0.04	1.64%
15	7	Surface	Arsenic	1.61E+01	0.01	0.11	0.00	0.12	4.60%
15	7	Surface	Cadmium	1.00E+00	0.00	0.00	0.00	0.00	0.11%
15	7	Surface	Chromium	7.87E+01	0.00	0.01		0.01	0.53%
15	7	Surface	Copper	7.33E+02	0.00	0.06		0.06	2.52%
15	7	Surface	Iron	3.42E+04	0.01	0.16		0.17	6.73%
15	7	Surface	Manganese	1.11E+03	0.00	0.02	0.01	0.03	1.24%
15	7	Surface	Nickel	5.59E+02	0.01	1.87	0.00	1.88	73.15%
15	7	Surface	Silver	1.29E+01	0.00	0.17		0.17	6.73%
15	7	Surface	Uranium	5.39E+01	0.00	0.06	0.00	0.06	2.48%
15	7	Surface	Zinc	5.87E+02	0.00	0.01		0.01	0.27%
15	7	Surface	**Totals**		**0.03**	**2.52**	**0.01**	**2.56**	
15	7	Surface	**Percent**		**1.32%**	**98.20%**	**0.48%**		
15	8	Surface	Antimony	5.40E+00	0.00	0.30		0.30	10.09%
15	8	Surface	Arsenic	1.17E+01	0.01	0.08	0.00	0.09	2.84%
15	8	Surface	Chromium	7.74E+01	0.00	0.01		0.01	0.44%
15	8	Surface	Copper	1.62E+02	0.00	0.01		0.01	0.47%
15	8	Surface	Iron	2.83E+04	0.01	0.14		0.14	4.74%
15	8	Surface	Mercury	1.00E+01	0.01	1.60		1.61	53.35%
15	8	Surface	Nickel	1.82E+02	0.00	0.61	0.00	0.61	20.28%
15	8	Surface	Silver	1.36E+01	0.00	0.18		0.18	6.04%
15	8	Surface	Uranium	4.46E+01	0.00	0.05	0.00	0.05	1.74%
15	8	Surface	**Totals**		**0.03**	**2.98**	**0.00**	**3.01**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
15	8	Surface	**Percent**		**0.97%**	**98.99%**	**0.04%**		
15	9	Surface	Arsenic	1.10E+01	0.01	0.07	0.00	0.08	8.17%
15	9	Surface	Chromium	9.56E+01	0.00	0.02		0.02	1.65%
15	9	Surface	Copper	1.36E+02	0.00	0.01		0.01	1.21%
15	9	Surface	Iron	2.76E+04	0.01	0.13		0.14	14.03%
15	9	Surface	Nickel	1.49E+02	0.00	0.50	0.00	0.50	50.43%
15	9	Surface	Silver	1.54E+01	0.00	0.21		0.21	20.86%
15	9	Surface	Uranium	3.07E+01	0.00	0.03	0.00	0.04	3.64%
15	9	Surface	**Totals**		**0.02**	**0.97**	**0.00**	**0.99**	
15	9	Surface	**Percent**		**1.88%**	**98.01%**	**0.11%**		
15	10	Surface	Chromium	3.55E+01	0.00	0.01		0.01	0.31%
15	10	Surface	Mercury	7.84E+00	0.00	1.25		1.25	63.62%
15	10	Surface	Nickel	1.46E+02	0.00	0.49	0.00	0.49	24.84%
15	10	Surface	Silver	1.08E+01	0.00	0.14		0.15	7.36%
15	10	Surface	Uranium	6.47E+01	0.00	0.07	0.00	0.08	3.87%
15	10	Surface	**Totals**		**0.01**	**1.96**	**0.00**	**1.97**	
15	10	Surface	**Percent**		**0.54%**	**99.42%**	**0.04%**		
16	1	Surface	**Totals**					**0.00**	
16	1	Surface	**Percent**						
16	2	Surface	Beryllium	8.40E-01	0.00	0.03	0.00	0.03	27.04%
16	2	Surface	Chromium	2.04E+01	0.00	0.00		0.00	3.36%
16	2	Surface	Nickel	2.16E+01	0.00	0.07	0.00	0.07	69.60%
16	2	Surface	**Totals**		**0.00**	**0.10**	**0.00**	**0.10**	
16	2	Surface	**Percent**		**0.27%**	**99.62%**	**0.11%**		
16	3	Surface	**Totals**					**0.00**	
16	3	Surface	**Percent**						
16	4	Surface	**Totals**					**0.00**	
16	4	Surface	**Percent**						
19	1	Surface	Beryllium	1.10E+00	0.00	0.04	0.00	0.04	44.13%
19	1	Surface	Cadmium	1.20E+00	0.00	0.00	0.00	0.00	4.17%
19	1	Surface	Thallium	9.80E-01	0.00	0.04		0.04	51.70%
19	1	Surface	**Totals**		**0.00**	**0.08**	**0.00**	**0.08**	
19	1	Surface	**Percent**		**3.11%**	**96.80%**	**0.09%**		
26	1	Surface	Arsenic	1.29E+01	0.01	0.09	0.00	0.09	26.01%
26	1	Surface	Beryllium	6.69E-01	0.00	0.02	0.00	0.02	6.18%
26	1	Surface	Cadmium	1.99E+00	0.00	0.01	0.00	0.01	1.59%
26	1	Surface	Chromium	1.90E+01	0.00	0.00		0.00	0.90%
26	1	Surface	Mercury	1.66E-01	0.00	0.03		0.03	7.31%
26	1	Surface	Nickel	1.76E+01	0.00	0.06	0.00	0.06	16.26%
26	1	Surface	Uranium	1.29E+02	0.01	0.14	0.00	0.15	41.74%
26	1	Surface	**Totals**		**0.02**	**0.35**	**0.00**	**0.36**	
26	1	Surface	**Percent**		**4.58%**	**95.22%**	**0.20%**		
26	2	Surface	Aluminum	2.17E+04	0.00	0.07	0.00	0.08	0.23%
26	2	Surface	Arsenic	4.72E+01	0.03	0.32	0.00	0.35	1.04%
26	2	Surface	Barium	1.49E+02	0.00	0.04	0.00	0.04	0.11%
26	2	Surface	Beryllium	9.69E+00	0.00	0.32	0.00	0.33	0.97%
26	2	Surface	Cadmium	2.38E+00	0.00	0.01	0.00	0.01	0.02%
26	2	Surface	Chromium	3.90E+01	0.00	0.01		0.01	0.02%
26	2	Surface	Cobalt	5.20E+01	0.03	0.58	0.00	0.62	1.84%
26	2	Surface	Copper	1.31E+02	0.00	0.01		0.01	0.03%
26	2	Surface	Iron	5.32E+04	0.01	0.25		0.27	0.80%
26	2	Surface	Nickel	1.13E+02	0.00	0.38	0.00	0.38	1.14%
26	2	Surface	Thallium	1.39E+01	0.03	0.58		0.61	1.84%
26	2	Surface	Uranium	6.46E+02	0.04	0.72	0.00	0.76	2.28%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
26	2	Surface	Vanadium	3.13E+01	0.08	29.87	0.00	29.95	89.67%
26	2	Surface	**Totals**		**0.24**	**33.15**	**0.01**	**33.40**	
26	2	Surface	**Percent**		**0.71%**	**99.26%**	**0.03%**		
26	3	Surface	Aluminum	9.55E+03	0.00	0.03	0.00	0.03	0.09%
26	3	Surface	Antimony	1.40E+00	0.00	0.08		0.08	0.21%
26	3	Surface	Arsenic	5.09E+01	0.03	0.34	0.00	0.37	0.99%
26	3	Surface	Barium	4.48E+02	0.00	0.11	0.00	0.11	0.29%
26	3	Surface	Beryllium	2.54E+00	0.00	0.08	0.00	0.09	0.23%
26	3	Surface	Cadmium	2.34E+00	0.00	0.01	0.00	0.01	0.02%
26	3	Surface	Chromium	3.25E+01	0.00	0.01		0.01	0.01%
26	3	Surface	Cobalt	1.21E+01	0.01	0.14	0.00	0.14	0.38%
26	3	Surface	Mercury	3.87E-01	0.00	0.06		0.06	0.16%
26	3	Surface	Naphthalene	1.32E+00	0.00	0.00	0.01	0.01	0.02%
26	3	Surface	Nickel	2.97E+01	0.00	0.10	0.00	0.10	0.27%
26	3	Surface	Silver	2.59E+01	0.00	0.35		0.35	0.92%
26	3	Surface	Thallium	6.00E-01	0.00	0.03		0.03	0.07%
26	3	Surface	Uranium	9.88E+01	0.01	0.11	0.00	0.12	0.31%
26	3	Surface	Vanadium	3.77E+01	0.10	36.00	0.00	36.10	96.03%
26	3	Surface	**Totals**		**0.15**	**37.43**	**0.01**	**37.60**	
26	3	Surface	**Percent**		**0.40%**	**99.57%**	**0.03%**		
26	4	Surface	Aluminum	1.07E+04	0.00	0.04	0.00	0.04	1.91%
26	4	Surface	Antimony	6.00E-01	0.00	0.03		0.03	1.67%
26	4	Surface	Beryllium	6.91E-01	0.00	0.02	0.00	0.02	1.15%
26	4	Surface	Cadmium	1.99E+00	0.00	0.01	0.00	0.01	0.29%
26	4	Surface	Chromium	8.57E+01	0.00	0.01		0.01	0.73%
26	4	Surface	Copper	1.16E+02	0.00	0.01		0.01	0.51%
26	4	Surface	Mercury	3.07E+00	0.00	0.49		0.49	24.32%
26	4	Surface	Nickel	7.54E+01	0.00	0.25	0.00	0.25	12.54%
26	4	Surface	Uranium	9.75E+02	0.06	1.09	0.00	1.15	56.89%
26	4	Surface	**Totals**		**0.07**	**1.95**	**0.00**	**2.02**	
26	4	Surface	**Percent**		**3.28%**	**96.59%**	**0.13%**		
47	1	Surface	Aluminum	1.50E+04	0.00	0.05	0.00	0.05	4.68%
47	1	Surface	Antimony	9.00E-01	0.00	0.05		0.05	4.37%
47	1	Surface	Arsenic	4.52E+01	0.03	0.30	0.00	0.33	28.63%
47	1	Surface	Beryllium	7.00E-01	0.00	0.02	0.00	0.02	2.03%
47	1	Surface	Cadmium	4.25E+00	0.00	0.01	0.00	0.01	1.07%
47	1	Surface	Chromium	5.39E+01	0.00	0.01		0.01	0.80%
47	1	Surface	Cobalt	1.43E+01	0.01	0.16	0.00	0.17	14.62%
47	1	Surface	Iron	2.95E+04	0.01	0.14		0.15	12.85%
47	1	Surface	Naphthalene	1.90E+00	0.00	0.00	0.01	0.01	0.91%
47	1	Surface	Nickel	8.25E+01	0.00	0.28	0.00	0.28	23.92%
47	1	Surface	Pyrene	1.11E+02	0.00	0.03	0.00	0.03	2.85%
47	1	Surface	Uranium	3.23E+01	0.00	0.04	0.00	0.04	3.29%
47	1	Surface	**Totals**		**0.05**	**1.09**	**0.01**	**1.16**	
47	1	Surface	**Percent**		**4.51%**	**94.34%**	**1.15%**		
74	1	Surface	**Totals**					**0.00**	
74	1	Surface	**Percent**						
75	1	Surface	Cadmium	1.10E+00	0.00	0.00	0.00	0.00	0.94%
75	1	Surface	Chromium	7.17E+01	0.00	0.01		0.01	3.61%
75	1	Surface	Copper	3.15E+02	0.00	0.03		0.03	8.15%
75	1	Surface	Nickel	8.87E+01	0.00	0.30	0.00	0.30	87.31%
75	1	Surface	**Totals**		**0.00**	**0.34**	**0.00**	**0.34**	
75	1	Surface	**Percent**		**0.73%**	**99.13%**	**0.13%**		
76	1	Surface	Barium	2.69E+02	0.00	0.06	0.00	0.06	100.00%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
76	1	Surface	**Totals**		**0.00**	**0.06**	**0.00**	**0.06**	
76	1	Surface	**Percent**		**0.39%**	**99.27%**	**0.35%**		
78	1	Surface	Cadmium	2.36E+00	0.00	0.01	0.00	0.01	3.93%
78	1	Surface	Chromium	3.75E+01	0.00	0.01		0.01	3.70%
78	1	Surface	Naphthalene	1.60E+01	0.00	0.01	0.08	0.09	50.91%
78	1	Surface	Nickel	2.15E+01	0.00	0.07	0.00	0.07	41.46%
78	1	Surface	**Totals**		**0.00**	**0.10**	**0.08**	**0.17**	
78	1	Surface	**Percent**		**0.45%**	**56.29%**	**43.26%**		
80	1	Surface	Antimony	9.10E-01	0.00	0.05		0.05	0.74%
80	1	Surface	Beryllium	7.80E-01	0.00	0.03	0.00	0.03	0.38%
80	1	Surface	Chromium	1.65E+02	0.00	0.03		0.03	0.41%
80	1	Surface	Mercury	4.50E-01	0.00	0.07		0.07	1.04%
80	1	Surface	Uranium	5.72E+03	0.35	6.38	0.01	6.74	97.43%
80	1	Surface	**Totals**		**0.36**	**6.56**	**0.01**	**6.92**	
80	1	Surface	**Percent**		**5.13%**	**94.75%**	**0.12%**		
81	1	Surface	Aluminum	9.57E+03	0.00	0.03	0.00	0.03	0.37%
81	1	Surface	Arsenic	1.03E+01	0.01	0.07	0.00	0.08	0.80%
81	1	Surface	Beryllium	7.57E-01	0.00	0.03	0.00	0.03	0.27%
81	1	Surface	Chromium	8.62E+01	0.00	0.01		0.01	0.16%
81	1	Surface	Mercury	8.33E+00	0.01	1.33		1.33	14.14%
81	1	Surface	Nickel	7.29E+01	0.00	0.24	0.00	0.24	2.60%
81	1	Surface	Silver	2.70E+00	0.00	0.04		0.04	0.38%
81	1	Surface	Uranium	6.50E+03	0.40	7.25	0.01	7.66	81.29%
81	1	Surface	**Totals**		**0.42**	**8.99**	**0.01**	**9.42**	
81	1	Surface	**Percent**		**4.42%**	**95.46%**	**0.11%**		
99	1	Surface	Chromium	5.51E+01	0.00	0.01		0.01	0.50%
99	1	Surface	Mercury	9.53E+00	0.01	1.52		1.52	79.89%
99	1	Surface	Nickel	7.02E+01	0.00	0.23	0.00	0.24	12.36%
99	1	Surface	Silver	1.03E+01	0.00	0.14		0.14	7.25%
99	1	Surface	**Totals**		**0.01**	**1.90**	**0.00**	**1.91**	
99	1	Surface	**Percent**		**0.36%**	**99.62%**	**0.02%**		
138	1	Surface	Antimony	5.39E+00	0.00	0.30		0.30	10.62%
138	1	Surface	Arsenic	1.06E+01	0.01	0.07	0.00	0.08	2.73%
138	1	Surface	Cadmium	5.42E+00	0.00	0.01	0.00	0.02	0.55%
138	1	Surface	Chromium	5.39E+01	0.00	0.01		0.01	0.32%
138	1	Surface	Mercury	1.30E+01	0.01	2.07		2.08	72.75%
138	1	Surface	Nickel	7.04E+01	0.00	0.24	0.00	0.24	8.28%
138	1	Surface	Silver	1.01E+01	0.00	0.14		0.14	4.74%
138	1	Surface	**Totals**		**0.02**	**2.84**	**0.00**	**2.86**	
138	1	Surface	**Percent**		**0.67%**	**99.30%**	**0.03%**		
138	2	Surface	Nickel	7.99E+01	0.00	0.27	0.00	0.27	65.69%
138	2	Surface	Silver	1.04E+01	0.00	0.14		0.14	34.31%
138	2	Surface	**Totals**		**0.00**	**0.41**	**0.00**	**0.41**	
138	2	Surface	**Percent**		**0.28%**	**99.63%**	**0.09%**		
153	1	Surface	**Totals**					**0.00**	
153	1	Surface	**Percent**						
154	1	Surface	Arsenic	1.52E+01	0.01	0.10	0.00	0.11	22.45%
154	1	Surface	Chromium	4.28E+01	0.00	0.01		0.01	1.48%
154	1	Surface	Nickel	9.89E+01	0.00	0.33	0.00	0.33	66.99%
154	1	Surface	Uranium	3.82E+01	0.00	0.04	0.00	0.04	9.08%
154	1	Surface	**Totals**		**0.01**	**0.48**	**0.00**	**0.50**	
154	1	Surface	**Percent**		**2.56%**	**97.25%**	**0.19%**		
154	2	Surface	**Totals**					**0.00**	
154	2	Surface	**Percent**						

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
155	1	Surface	Antimony	3.65E+00	0.00	0.20		0.21	33.29%
155	1	Surface	Chromium	3.47E+01	0.00	0.01		0.01	0.97%
155	1	Surface	Nickel	7.65E+01	0.00	0.26	0.00	0.26	41.65%
155	1	Surface	Silver	1.11E+01	0.00	0.15		0.15	24.09%
155	1	Surface	**Totals**		**0.00**	**0.61**	**0.00**	**0.62**	
155	1	Surface	**Percent**		**0.46%**	**99.48%**	**0.06%**		
156	1	Surface	Chromium	4.90E+01	0.00	0.01		0.01	0.44%
156	1	Surface	Manganese	2.83E+03	0.00	0.05	0.02	0.08	4.29%
156	1	Surface	Mercury	9.87E+00	0.01	1.57		1.58	82.95%
156	1	Surface	Nickel	6.16E+01	0.00	0.21	0.00	0.21	10.88%
156	1	Surface	Uranium	2.32E+01	0.00	0.03	0.00	0.03	1.44%
156	1	Surface	**Totals**		**0.01**	**1.87**	**0.02**	**1.90**	
156	1	Surface	**Percent**		**0.62%**	**98.11%**	**1.27%**		
158	1	Surface	Antimony	5.23E-01	0.00	0.03		0.03	1.26%
158	1	Surface	Arsenic	1.01E+01	0.01	0.07	0.00	0.07	3.17%
158	1	Surface	Barium	2.19E+02	0.00	0.05	0.00	0.05	2.25%
158	1	Surface	Chromium	6.07E+01	0.00	0.01		0.01	0.45%
158	1	Surface	Cobalt	1.62E+01	0.01	0.18	0.00	0.19	8.20%
158	1	Surface	Manganese	9.91E+02	0.00	0.02	0.01	0.03	1.22%
158	1	Surface	Mercury	1.05E+01	0.01	1.67		1.67	71.41%
158	1	Surface	Nickel	7.28E+01	0.00	0.24	0.00	0.24	10.44%
158	1	Surface	Thallium	3.12E-01	0.00	0.01		0.01	0.59%
158	1	Surface	Uranium	2.03E+01	0.00	0.02	0.00	0.02	1.02%
158	1	Surface	**Totals**		**0.03**	**2.30**	**0.01**	**2.34**	
158	1	Surface	**Percent**		**1.16%**	**98.40%**	**0.44%**		
160	1	Surface	Antimony	6.80E-01	0.00	0.04		0.04	100.00%
160	1	Surface	**Totals**		**0.00**	**0.04**		**0.04**	
160	1	Surface	**Percent**		**0.83%**	**99.17%**			
163	1	Surface	Chromium	4.94E+01	0.00	0.01		0.01	100.00%
163	1	Surface	**Totals**		**0.00**	**0.01**		**0.01**	
163	1	Surface	**Percent**		**0.07%**	**99.93%**			
165	1	Surface	Antimony	2.20E+00	0.00	0.12		0.12	8.32%
165	1	Surface	Arsenic	6.35E+01	0.04	0.42	0.00	0.47	31.33%
165	1	Surface	Barium	5.84E+02	0.00	0.14	0.00	0.14	9.46%
165	1	Surface	Beryllium	6.82E-01	0.00	0.02	0.00	0.02	1.54%
165	1	Surface	Chromium	3.74E+01	0.00	0.01		0.01	0.43%
165	1	Surface	Mercury	3.78E-01	0.00	0.06		0.06	4.06%
165	1	Surface	Naphthalene	1.61E+00	0.00	0.00	0.01	0.01	0.60%
165	1	Surface	Nickel	3.47E+01	0.00	0.12	0.00	0.12	7.84%
165	1	Surface	Silver	3.09E+01	0.00	0.41		0.41	27.91%
165	1	Surface	Uranium	1.08E+02	0.01	0.12	0.00	0.13	8.52%
165	1	Surface	**Totals**		**0.05**	**1.43**	**0.01**	**1.49**	
165	1	Surface	**Percent**		**3.32%**	**96.00%**	**0.68%**		
169	1	Surface	Aluminum	1.42E+04	0.00	0.05	0.00	0.05	1.36%
169	1	Surface	Antimony	1.30E+00	0.00	0.07		0.07	1.94%
169	1	Surface	Arsenic	2.03E+01	0.01	0.14	0.00	0.15	3.96%
169	1	Surface	Beryllium	8.00E-01	0.00	0.03	0.00	0.03	0.71%
169	1	Surface	Chromium	2.15E+02	0.00	0.04		0.04	0.98%
169	1	Surface	Copper	3.74E+02	0.00	0.03		0.03	0.88%
169	1	Surface	Iron	4.16E+04	0.01	0.20		0.21	5.57%
169	1	Surface	Mercury	7.87E+00	0.00	1.25		1.26	33.46%
169	1	Surface	Nickel	5.49E+02	0.01	1.84	0.00	1.84	49.00%
169	1	Surface	Thallium	4.60E-01	0.00	0.02		0.02	0.54%
169	1	Surface	Uranium	5.03E+01	0.00	0.06	0.00	0.06	1.58%

SWMU = solid waste management unit
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EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
169	1	Surface	**Totals**		**0.04**	**3.71**	**0.00**	**3.76**	
169	1	Surface	**Percent**		**1.14%**	**98.74%**	**0.12%**		
170	1	Surface	**Totals**					**0.00**	
170	1	Surface	**Percent**						
176	1	Surface	Arsenic	4.86E+01	0.03	0.32	0.00	0.36	47.53%
176	1	Surface	Chromium	4.27E+01	0.00	0.01		0.01	0.98%
176	1	Surface	Nickel	1.07E+02	0.00	0.36	0.00	0.36	48.02%
176	1	Surface	Uranium	2.21E+01	0.00	0.02	0.00	0.03	3.47%
176	1	Surface	**Totals**		**0.03**	**0.72**	**0.00**	**0.75**	
176	1	Surface	**Percent**		**4.33%**	**95.42%**	**0.25%**		
180	1	Surface	Antimony	5.80E-01	0.00	0.03		0.03	1.48%
180	1	Surface	Arsenic	7.48E+01	0.05	0.50	0.00	0.55	24.84%
180	1	Surface	Chromium	5.54E+01	0.00	0.01		0.01	0.43%
180	1	Surface	Mercury	8.28E+00	0.01	1.32		1.32	59.93%
180	1	Surface	Nickel	8.77E+01	0.00	0.29	0.00	0.29	13.33%
180	1	Surface	**Totals**		**0.05**	**2.15**	**0.00**	**2.21**	
180	1	Surface	**Percent**		**2.38%**	**97.51%**	**0.11%**		
180	2	Surface	Antimony	4.58E-01	0.00	0.03		0.03	6.30%
180	2	Surface	Arsenic	1.27E+01	0.01	0.08	0.00	0.09	22.70%
180	2	Surface	Chromium	4.46E+01	0.00	0.01		0.01	1.87%
180	2	Surface	Nickel	8.42E+01	0.00	0.28	0.00	0.28	69.13%
180	2	Surface	**Totals**		**0.01**	**0.40**	**0.00**	**0.41**	
180	2	Surface	**Percent**		**2.16%**	**97.66%**	**0.18%**		
180	3	Surface	Arsenic	1.34E+01	0.01	0.09	0.00	0.10	20.14%
180	3	Surface	Chromium	4.69E+01	0.00	0.01		0.01	1.66%
180	3	Surface	Nickel	6.77E+01	0.00	0.23	0.00	0.23	46.76%
180	3	Surface	Silver	1.14E+01	0.00	0.15		0.15	31.45%
180	3	Surface	**Totals**		**0.01**	**0.48**	**0.00**	**0.49**	
180	3	Surface	**Percent**		**1.92%**	**97.94%**	**0.14%**		
180	4	Surface	Arsenic	1.15E+01	0.01	0.08	0.00	0.08	0.18%
180	4	Surface	Barium	2.13E+02	0.00	0.05	0.00	0.05	0.11%
180	4	Surface	Beryllium	1.60E+00	0.00	0.05	0.00	0.05	0.11%
180	4	Surface	Chromium	6.00E+01	0.00	0.01		0.01	0.02%
180	4	Surface	Iron	1.54E+04	0.00	0.07		0.08	0.16%
180	4	Surface	Manganese	7.09E+02	0.00	0.01	0.01	0.02	0.04%
180	4	Surface	Nickel	6.46E+01	0.00	0.22	0.00	0.22	0.46%
180	4	Surface	Silver	9.68E+00	0.00	0.13		0.13	0.28%
180	4	Surface	Vanadium	4.85E+01	0.13	46.35	0.00	46.48	98.63%
180	4	Surface	**Totals**		**0.14**	**46.98**	**0.01**	**47.13**	
180	4	Surface	**Percent**		**0.30%**	**99.68%**	**0.01%**		
181	1	Surface	Chromium	2.29E+01	0.00	0.00		0.00	2.48%
181	1	Surface	Thallium	3.50E+00	0.01	0.15		0.15	97.52%
181	1	Surface	**Totals**		**0.01**	**0.15**		**0.16**	
181	1	Surface	**Percent**		**5.13%**	**94.87%**			
194	1	Surface	Antimony	1.50E+00	0.00	0.08		0.08	5.60%
194	1	Surface	Chromium	3.87E+01	0.00	0.01		0.01	0.44%
194	1	Surface	Mercury	6.71E+00	0.00	1.07		1.07	71.21%
194	1	Surface	Nickel	5.84E+01	0.00	0.20	0.00	0.20	13.02%
194	1	Surface	Silver	1.09E+01	0.00	0.15		0.15	9.73%
194	1	Surface	**Totals**		**0.01**	**1.50**	**0.00**	**1.51**	
194	1	Surface	**Percent**		**0.39%**	**99.60%**	**0.02%**		
194	2	Surface	Chromium	5.96E+01	0.00	0.01		0.01	4.80%
194	2	Surface	Silver	1.31E+01	0.00	0.18		0.18	82.61%
194	2	Surface	Uranium	2.28E+01	0.00	0.03	0.00	0.03	12.59%

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EU = exposure unit
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HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	2	Surface	**Totals**		**0.00**	**0.21**	**0.00**	**0.21**	
194	2	Surface	**Percent**		**0.89%**	**99.09%**	**0.01%**		
194	3	Surface	Antimony	6.90E-01	0.00	0.04		0.04	10.54%
194	3	Surface	Arsenic	1.46E+01	0.01	0.10	0.00	0.11	29.19%
194	3	Surface	Chromium	3.90E+01	0.00	0.01		0.01	1.82%
194	3	Surface	Nickel	6.40E+01	0.00	0.21	0.00	0.22	58.45%
194	3	Surface	**Totals**		**0.01**	**0.36**	**0.00**	**0.37**	
194	3	Surface	**Percent**		**2.71%**	**97.09%**	**0.19%**		
194	4	Surface	Chromium	4.84E+01	0.00	0.01		0.01	0.46%
194	4	Surface	Mercury	8.92E+00	0.01	1.42		1.43	78.17%
194	4	Surface	Nickel	6.91E+01	0.00	0.23	0.00	0.23	12.71%
194	4	Surface	Silver	1.18E+01	0.00	0.16		0.16	8.66%
194	4	Surface	**Totals**		**0.01**	**1.82**	**0.00**	**1.82**	
194	4	Surface	**Percent**		**0.36%**	**99.62%**	**0.02%**		
194	5	Surface	Chromium	4.58E+01	0.00	0.01		0.01	0.43%
194	5	Surface	Mercury	8.69E+00	0.01	1.38		1.39	76.44%
194	5	Surface	Nickel	7.54E+01	0.00	0.25	0.00	0.25	13.94%
194	5	Surface	Silver	1.25E+01	0.00	0.17		0.17	9.19%
194	5	Surface	**Totals**		**0.01**	**1.81**	**0.00**	**1.82**	
194	5	Surface	**Percent**		**0.36%**	**99.62%**	**0.02%**		
194	6	Surface	Chromium	3.70E+01	0.00	0.01		0.01	1.44%
194	6	Surface	Manganese	1.08E+03	0.00	0.02	0.01	0.03	7.06%
194	6	Surface	Nickel	8.06E+01	0.00	0.27	0.00	0.27	61.40%
194	6	Surface	Silver	9.89E+00	0.00	0.13		0.13	30.10%
194	6	Surface	**Totals**		**0.00**	**0.43**	**0.01**	**0.44**	
194	6	Surface	**Percent**		**0.58%**	**97.28%**	**2.14%**		
194	7	Surface	Chromium	5.32E+01	0.00	0.01		0.01	2.09%
194	7	Surface	Nickel	7.71E+01	0.00	0.26	0.00	0.26	59.43%
194	7	Surface	Silver	1.25E+01	0.00	0.17		0.17	38.47%
194	7	Surface	**Totals**		**0.00**	**0.43**	**0.00**	**0.44**	
194	7	Surface	**Percent**		**0.27%**	**99.64%**	**0.08%**		
194	8	Surface	Chromium	5.36E+01	0.00	0.01		0.01	28.52%
194	8	Surface	Manganese	8.00E+02	0.00	0.02	0.01	0.02	71.48%
194	8	Surface	**Totals**		**0.00**	**0.02**	**0.01**	**0.03**	
194	8	Surface	**Percent**		**3.31%**	**75.90%**	**20.79%**		
194	9	Surface	Arsenic	1.14E+01	0.01	0.08	0.00	0.08	90.43%
194	9	Surface	Chromium	5.17E+01	0.00	0.01		0.01	9.57%
194	9	Surface	**Totals**		**0.01**	**0.09**	**0.00**	**0.09**	
194	9	Surface	**Percent**		**7.64%**	**92.01%**	**0.34%**		
194	10	Surface	Arsenic	1.22E+01	0.01	0.08	0.00	0.09	25.44%
194	10	Surface	Chromium	3.63E+01	0.00	0.01		0.01	1.78%
194	10	Surface	Nickel	7.60E+01	0.00	0.25	0.00	0.26	72.78%
194	10	Surface	**Totals**		**0.01**	**0.34**	**0.00**	**0.35**	
194	10	Surface	**Percent**		**2.35%**	**97.45%**	**0.20%**		
194	11	Surface	Chromium	3.27E+01	0.00	0.01		0.01	0.31%
194	11	Surface	Mercury	8.09E+00	0.01	1.29		1.29	71.25%
194	11	Surface	Nickel	1.01E+02	0.00	0.34	0.00	0.34	18.62%
194	11	Surface	Silver	1.33E+01	0.00	0.18		0.18	9.82%
194	11	Surface	**Totals**		**0.01**	**1.81**	**0.00**	**1.82**	
194	11	Surface	**Percent**		**0.35%**	**99.62%**	**0.03%**		
194	12	Surface	Chromium	6.34E+01	0.00	0.01		0.01	2.50%
194	12	Surface	Nickel	7.86E+01	0.00	0.26	0.00	0.26	60.61%
194	12	Surface	Silver	1.20E+01	0.00	0.16		0.16	36.90%
194	12	Surface	**Totals**		**0.00**	**0.43**	**0.00**	**0.44**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	12	Surface	**Percent**		**0.27%**	**99.64%**	**0.08%**		
194	13	Surface	Chromium	4.77E+01	0.00	0.01		0.01	3.88%
194	13	Surface	Nickel	6.03E+01	0.00	0.20	0.00	0.20	96.12%
194	13	Surface	**Totals**		**0.00**	**0.21**	**0.00**	**0.21**	
194	13	Surface	**Percent**		**0.27%**	**99.60%**	**0.13%**		
194	14	Surface	Chromium	5.21E+01	0.00	0.01		0.01	0.68%
194	14	Surface	Mercury	8.14E+00	0.01	1.30		1.30	99.32%
194	14	Surface	**Totals**		**0.01**	**1.31**		**1.31**	
194	14	Surface	**Percent**		**0.39%**	**99.61%**			
194	15	Surface	Chromium	5.33E+01	0.00	0.01		0.01	6.21%
194	15	Surface	Silver	1.03E+01	0.00	0.14		0.14	93.79%
194	15	Surface	**Totals**		**0.00**	**0.15**		**0.15**	
194	15	Surface	**Percent**		**0.26%**	**99.74%**			
194	16	Surface	Antimony	7.40E-01	0.00	0.04		0.04	0.10%
194	16	Surface	Arsenic	1.15E+01	0.01	0.08	0.00	0.08	0.21%
194	16	Surface	Beryllium	8.70E-01	0.00	0.03	0.00	0.03	0.07%
194	16	Surface	Chromium	5.32E+01	0.00	0.01		0.01	0.02%
194	16	Surface	Nickel	7.20E+01	0.00	0.24	0.00	0.24	0.61%
194	16	Surface	Thallium	6.30E-01	0.00	0.03		0.03	0.07%
194	16	Surface	Vanadium	4.11E+01	0.11	39.28	0.00	39.39	98.91%
194	16	Surface	**Totals**		**0.12**	**39.70**	**0.00**	**39.82**	
194	16	Surface	**Percent**		**0.30%**	**99.70%**	**0.00%**		
194	17	Surface	Arsenic	1.16E+01	0.01	0.08	0.00	0.08	88.35%
194	17	Surface	Cadmium	1.10E+00	0.00	0.00	0.00	0.00	3.33%
194	17	Surface	Chromium	4.65E+01	0.00	0.01		0.01	8.32%
194	17	Surface	**Totals**		**0.01**	**0.09**	**0.00**	**0.10**	
194	17	Surface	**Percent**		**7.68%**	**91.94%**	**0.38%**		
194	18	Surface	Arsenic	1.06E+01	0.01	0.07	0.00	0.08	25.16%
194	18	Surface	Beryllium	7.40E-01	0.00	0.02	0.00	0.02	8.06%
194	18	Surface	Chromium	6.85E+01	0.00	0.01		0.01	3.81%
194	18	Surface	Nickel	5.78E+01	0.00	0.19	0.00	0.19	62.97%
194	18	Surface	**Totals**		**0.01**	**0.30**	**0.00**	**0.31**	
194	18	Surface	**Percent**		**2.32%**	**97.49%**	**0.19%**		
194	19	Surface	Arsenic	1.07E+01	0.01	0.07	0.00	0.08	27.73%
194	19	Surface	Chromium	4.84E+01	0.00	0.01		0.01	2.93%
194	19	Surface	Nickel	5.84E+01	0.00	0.20	0.00	0.20	69.33%
194	19	Surface	**Totals**		**0.01**	**0.28**	**0.00**	**0.28**	
194	19	Surface	**Percent**		**2.54%**	**97.26%**	**0.20%**		
194	20	Surface	Arsenic	1.18E+01	0.01	0.08	0.00	0.09	0.23%
194	20	Surface	Barium	3.26E+02	0.00	0.08	0.00	0.08	0.20%
194	20	Surface	Beryllium	1.10E+00	0.00	0.04	0.00	0.04	0.10%
194	20	Surface	Chromium	5.24E+01	0.00	0.01		0.01	0.02%
194	20	Surface	Cobalt	2.11E+01	0.01	0.24	0.00	0.25	0.65%
194	20	Surface	Manganese	2.29E+03	0.00	0.04	0.02	0.07	0.17%
194	20	Surface	Mercury	7.28E+00	0.00	1.16		1.16	3.02%
194	20	Surface	Nickel	6.57E+01	0.00	0.22	0.00	0.22	0.57%
194	20	Surface	Silver	1.22E+01	0.00	0.16		0.16	0.42%
194	20	Surface	Vanadium	3.81E+01	0.10	36.41	0.00	36.51	94.62%
194	20	Surface	**Totals**		**0.13**	**38.44**	**0.02**	**38.59**	
194	20	Surface	**Percent**		**0.34%**	**99.61%**	**0.06%**		
194	21	Surface	Antimony	9.30E-01	0.00	0.05		0.05	3.78%
194	21	Surface	Chromium	5.51E+01	0.00	0.01		0.01	0.68%
194	21	Surface	Mercury	6.62E+00	0.00	1.05		1.06	76.48%
194	21	Surface	Nickel	7.01E+01	0.00	0.23	0.00	0.24	17.02%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	21	Surface	Thallium	6.40E-01	0.00	0.03		0.03	2.04%
194	21	Surface	**Totals**		**0.01**	**1.38**	**0.00**	**1.38**	
194	21	Surface	**Percent**		**0.48%**	**99.49%**	**0.02%**		
194	22	Surface	Chromium	4.90E+01	0.00	0.01		0.01	26.26%
194	22	Surface	Manganese	8.19E+02	0.00	0.02	0.01	0.02	73.74%
194	22	Surface	**Totals**		**0.00**	**0.02**	**0.01**	**0.03**	
194	22	Surface	**Percent**		**3.41%**	**75.14%**	**21.45%**		
194	23	Surface	Arsenic	1.16E+01	0.01	0.08	0.00	0.08	13.31%
194	23	Surface	Chromium	6.60E+01	0.00	0.01		0.01	1.78%
194	23	Surface	Iron	1.83E+04	0.00	0.09		0.09	14.48%
194	23	Surface	Nickel	8.77E+01	0.00	0.29	0.00	0.29	46.25%
194	23	Surface	Silver	1.15E+01	0.00	0.15		0.15	24.19%
194	23	Surface	**Totals**		**0.01**	**0.62**	**0.00**	**0.64**	
194	23	Surface	**Percent**		**2.08%**	**97.80%**	**0.11%**		
194	24	Surface	Chromium	5.02E+01	0.00	0.01		0.01	3.50%
194	24	Surface	Nickel	7.08E+01	0.00	0.24	0.00	0.24	96.50%
194	24	Surface	**Totals**		**0.00**	**0.25**	**0.00**	**0.25**	
194	24	Surface	**Percent**		**0.27%**	**99.60%**	**0.13%**		
194	25	Surface	Barium	3.00E+02	0.00	0.07	0.00	0.07	22.28%
194	25	Surface	Chromium	6.13E+01	0.00	0.01		0.01	3.24%
194	25	Surface	Manganese	9.96E+02	0.00	0.02	0.01	0.03	8.86%
194	25	Surface	Nickel	6.33E+01	0.00	0.21	0.00	0.21	65.62%
194	25	Surface	**Totals**		**0.00**	**0.31**	**0.01**	**0.32**	
194	25	Surface	**Percent**		**0.68%**	**96.58%**	**2.74%**		
194	26	Surface	Beryllium	7.00E-01	0.00	0.02	0.00	0.02	12.65%
194	26	Surface	Chromium	4.18E+01	0.00	0.01		0.01	3.87%
194	26	Surface	Silver	1.03E+01	0.00	0.14		0.14	74.21%
194	26	Surface	Thallium	3.90E-01	0.00	0.02		0.02	9.27%
194	26	Surface	**Totals**		**0.00**	**0.18**	**0.00**	**0.19**	
194	26	Surface	**Percent**		**0.73%**	**99.26%**	**0.01%**		
194	27	Surface	Chromium	5.22E+01	0.00	0.01		0.01	2.46%
194	27	Surface	Nickel	6.55E+01	0.00	0.22	0.00	0.22	60.32%
194	27	Surface	Silver	1.01E+01	0.00	0.14		0.14	37.23%
194	27	Surface	**Totals**		**0.00**	**0.36**	**0.00**	**0.36**	
194	27	Surface	**Percent**		**0.27%**	**99.64%**	**0.08%**		
194	28	Surface	Arsenic	1.20E+01	0.01	0.08	0.00	0.09	0.22%
194	28	Surface	Beryllium	7.10E-01	0.00	0.02	0.00	0.02	0.06%
194	28	Surface	Chromium	6.07E+01	0.00	0.01		0.01	0.03%
194	28	Surface	Manganese	1.14E+03	0.00	0.02	0.01	0.03	0.08%
194	28	Surface	Nickel	6.95E+01	0.00	0.23	0.00	0.23	0.59%
194	28	Surface	Silver	1.08E+01	0.00	0.14		0.14	0.37%
194	28	Surface	Vanadium	4.06E+01	0.11	38.80	0.00	38.91	98.65%
194	28	Surface	**Totals**		**0.12**	**39.32**	**0.01**	**39.44**	
194	28	Surface	**Percent**		**0.30%**	**99.67%**	**0.03%**		
194	29	Surface	Antimony	7.10E-01	0.00	0.04		0.04	10.02%
194	29	Surface	Chromium	5.06E+01	0.00	0.01		0.01	2.18%
194	29	Surface	Nickel	6.51E+01	0.00	0.22	0.00	0.22	54.89%
194	29	Surface	Silver	9.77E+00	0.00	0.13		0.13	32.91%
194	29	Surface	**Totals**		**0.00**	**0.40**	**0.00**	**0.40**	
194	29	Surface	**Percent**		**0.33%**	**99.60%**	**0.08%**		
194	30	Surface	Chromium	5.66E+01	0.00	0.01		0.01	0.54%
194	30	Surface	Mercury	8.80E+00	0.01	1.40		1.41	78.94%
194	30	Surface	Nickel	6.99E+01	0.00	0.23	0.00	0.23	13.17%
194	30	Surface	Silver	9.76E+00	0.00	0.13		0.13	7.35%

SWMU = solid waste management unit
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HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
194	30	Surface	**Totals**		**0.01**	**1.78**	**0.00**	**1.78**	
194	30	Surface	**Percent**		**0.36%**	**99.62%**	**0.02%**		
194	31	Surface	**Totals**					**0.00**	
194	31	Surface	**Percent**						
195	1	Surface	Chromium	6.33E+01	0.00	0.01		0.01	2.92%
195	1	Surface	Nickel	7.02E+01	0.00	0.23	0.00	0.24	63.32%
195	1	Surface	Silver	9.37E+00	0.00	0.13		0.13	33.76%
195	1	Surface	**Totals**		**0.00**	**0.37**	**0.00**	**0.37**	
195	1	Surface	**Percent**		**0.27%**	**99.64%**	**0.09%**		
195	2	Surface	Chromium	4.52E+01	0.00	0.01		0.01	5.75%
195	2	Surface	Silver	9.48E+00	0.00	0.13		0.13	94.25%
195	2	Surface	**Totals**		**0.00**	**0.13**		**0.13**	
195	2	Surface	**Percent**		**0.27%**	**99.73%**			
195	3	Surface	Chromium	5.03E+01	0.00	0.01		0.01	4.70%
195	3	Surface	Nickel	5.22E+01	0.00	0.17	0.00	0.18	95.30%
195	3	Surface	**Totals**		**0.00**	**0.18**	**0.00**	**0.18**	
195	3	Surface	**Percent**		**0.27%**	**99.60%**	**0.13%**		
195	4	Surface	Chromium	5.29E+01	0.00	0.01		0.01	4.16%
195	4	Surface	Nickel	6.23E+01	0.00	0.21	0.00	0.21	95.84%
195	4	Surface	**Totals**		**0.00**	**0.22**	**0.00**	**0.22**	
195	4	Surface	**Percent**		**0.27%**	**99.60%**	**0.13%**		
195	5	Surface	Chromium	5.74E+01	0.00	0.01		0.01	3.49%
195	5	Surface	Nickel	8.11E+01	0.00	0.27	0.00	0.27	96.51%
195	5	Surface	**Totals**		**0.00**	**0.28**	**0.00**	**0.28**	
195	5	Surface	**Percent**		**0.27%**	**99.60%**	**0.13%**		
195	6	Surface	Chromium	4.45E+01	0.00	0.01		0.01	2.55%
195	6	Surface	Nickel	8.71E+01	0.00	0.29	0.00	0.29	97.45%
195	6	Surface	**Totals**		**0.00**	**0.30**	**0.00**	**0.30**	
195	6	Surface	**Percent**		**0.27%**	**99.59%**	**0.14%**		
195	7	Surface	Chromium	4.93E+01	0.00	0.01		0.01	7.25%
195	7	Surface	Silver	8.06E+00	0.00	0.11		0.11	92.75%
195	7	Surface	**Totals**		**0.00**	**0.12**		**0.12**	
195	7	Surface	**Percent**		**0.26%**	**99.74%**			
195	8	Surface	Arsenic	1.16E+01	0.01	0.08	0.00	0.08	0.22%
195	8	Surface	Beryllium	7.40E-01	0.00	0.02	0.00	0.02	0.06%
195	8	Surface	Chromium	6.79E+01	0.00	0.01		0.01	0.03%
195	8	Surface	Cobalt	1.82E+01	0.01	0.20	0.00	0.22	0.55%
195	8	Surface	Nickel	7.01E+01	0.00	0.23	0.00	0.24	0.60%
195	8	Surface	Vanadium	4.04E+01	0.11	38.61	0.00	38.72	98.54%
195	8	Surface	**Totals**		**0.13**	**39.16**	**0.00**	**39.29**	
195	8	Surface	**Percent**		**0.32%**	**99.67%**	**0.01%**		
195	9	Surface	Chromium	6.08E+01	0.00	0.01		0.01	3.77%
195	9	Surface	Nickel	7.93E+01	0.00	0.27	0.00	0.27	96.23%
195	9	Surface	**Totals**		**0.00**	**0.28**	**0.00**	**0.28**	
195	9	Surface	**Percent**		**0.27%**	**99.60%**	**0.13%**		
195	10	Surface	Chromium	4.51E+01	0.00	0.01		0.01	1.79%
195	10	Surface	Nickel	7.40E+01	0.00	0.25	0.00	0.25	57.52%
195	10	Surface	Silver	1.31E+01	0.00	0.18		0.18	40.69%
195	10	Surface	**Totals**		**0.00**	**0.43**	**0.00**	**0.43**	
195	10	Surface	**Percent**		**0.27%**	**99.65%**	**0.08%**		
195	11	Surface	Aluminum	2.81E+04	0.01	0.09	0.00	0.10	0.13%
195	11	Surface	Arsenic	1.35E+01	0.01	0.09	0.00	0.10	0.13%
195	11	Surface	Barium	4.53E+02	0.00	0.11	0.00	0.11	0.14%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
195	11	Surface	Chromium	5.05E+01	0.00	0.01		0.01	0.01%
195	11	Surface	Cobalt	2.77E+01	0.02	0.31	0.00	0.33	0.42%
195	11	Surface	Iron	1.97E+04	0.01	0.09		0.10	0.13%
195	11	Surface	Nickel	6.77E+01	0.00	0.23	0.00	0.23	0.29%
195	11	Surface	Thallium	6.60E-01	0.00	0.03		0.03	0.04%
195	11	Surface	Vanadium	7.97E+01	0.21	76.17	0.00	76.38	98.71%
195	11	Surface	**Totals**		**0.25**	**77.13**	**0.01**	**77.38**	
195	11	Surface	**Percent**		**0.32%**	**99.67%**	**0.01%**		
195	12	Surface	Beryllium	7.50E-01	0.00	0.03	0.00	0.03	9.51%
195	12	Surface	Chromium	7.04E+01	0.00	0.01		0.01	4.56%
195	12	Surface	Nickel	6.78E+01	0.00	0.23	0.00	0.23	85.93%
195	12	Surface	**Totals**		**0.00**	**0.26**	**0.00**	**0.26**	
195	12	Surface	**Percent**		**0.27%**	**99.61%**	**0.13%**		
195	13	Surface	Chromium	6.55E+01	0.00	0.01		0.01	4.62%
195	13	Surface	Nickel	6.91E+01	0.00	0.23	0.00	0.23	95.38%
195	13	Surface	**Totals**		**0.00**	**0.24**	**0.00**	**0.24**	
195	13	Surface	**Percent**		**0.27%**	**99.60%**	**0.13%**		
195	14	Surface	Chromium	5.94E+01	0.00	0.01		0.01	4.14%
195	14	Surface	Nickel	7.04E+01	0.00	0.24	0.00	0.24	95.86%
195	14	Surface	**Totals**		**0.00**	**0.25**	**0.00**	**0.25**	
195	14	Surface	**Percent**		**0.27%**	**99.60%**	**0.13%**		
195	15	Surface	Chromium	4.82E+01	0.00	0.01		0.01	100.00%
195	15	Surface	**Totals**		**0.00**	**0.01**		**0.01**	
195	15	Surface	**Percent**		**0.07%**	**99.93%**			
195	16	Surface	Chromium	4.45E+01	0.00	0.01		0.01	2.71%
195	16	Surface	Nickel	8.16E+01	0.00	0.27	0.00	0.27	97.29%
195	16	Surface	**Totals**		**0.00**	**0.28**	**0.00**	**0.28**	
195	16	Surface	**Percent**		**0.27%**	**99.59%**	**0.14%**		
195	17	Surface	Chromium	8.22E+01	0.00	0.01		0.01	3.21%
195	17	Surface	Mercury	4.17E-01	0.00	0.07		0.07	15.16%
195	17	Surface	Nickel	5.93E+01	0.00	0.20	0.00	0.20	45.30%
195	17	Surface	Silver	1.01E+01	0.00	0.14		0.14	30.92%
195	17	Surface	Thallium	5.40E-01	0.00	0.02		0.02	5.42%
195	17	Surface	**Totals**		**0.00**	**0.44**	**0.00**	**0.44**	
195	17	Surface	**Percent**		**0.56%**	**99.38%**	**0.06%**		
196	1	Surface	Antimony	5.90E-01	0.00	0.03		0.03	1.72%
196	1	Surface	Chromium	1.96E+01	0.00	0.00		0.00	0.17%
196	1	Surface	Nickel	5.56E+02	0.01	1.86	0.00	1.87	96.69%
196	1	Surface	Uranium	2.33E+01	0.00	0.03	0.00	0.03	1.42%
196	1	Surface	**Totals**		**0.01**	**1.92**	**0.00**	**1.93**	
196	1	Surface	**Percent**		**0.36%**	**99.51%**	**0.14%**		
196	2	Surface	Barium	2.02E+02	0.00	0.05	0.00	0.05	15.85%
196	2	Surface	Cadmium	2.53E+00	0.00	0.01	0.00	0.01	2.40%
196	2	Surface	Chromium	2.07E+01	0.00	0.00		0.00	1.16%
196	2	Surface	Nickel	7.36E+01	0.00	0.25	0.00	0.25	80.60%
196	2	Surface	**Totals**		**0.00**	**0.30**	**0.00**	**0.31**	
196	2	Surface	**Percent**		**0.44%**	**99.36%**	**0.20%**		
200	1	Surface	Antimony	5.60E-01	0.00	0.03		0.03	2.00%
200	1	Surface	Chromium	5.75E+01	0.00	0.01		0.01	0.63%
200	1	Surface	Mercury	6.71E+00	0.00	1.07		1.07	68.06%
200	1	Surface	Nickel	1.28E+02	0.00	0.43	0.00	0.43	27.27%
200	1	Surface	Uranium	2.73E+01	0.00	0.03	0.00	0.03	2.04%
200	1	Surface	**Totals**		**0.01**	**1.57**	**0.00**	**1.58**	
200	1	Surface	**Percent**		**0.46%**	**99.50%**	**0.04%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
204	1	Surface	Aluminum	1.48E+04	0.00	0.05	0.00	0.05	0.07%
204	1	Surface	Beryllium	1.36E+00	0.00	0.05	0.00	0.05	0.06%
204	1	Surface	Cadmium	2.73E+00	0.00	0.01	0.00	0.01	0.01%
204	1	Surface	Chromium	7.40E+01	0.00	0.01		0.01	0.02%
204	1	Surface	Iron	4.19E+04	0.01	0.20		0.21	0.29%
204	1	Surface	Vanadium	7.55E+01	0.20	72.16	0.00	72.36	99.54%
204	1	Surface	**Totals**		**0.21**	**72.47**	**0.00**	**72.69**	
204	1	Surface	**Percent**		**0.30%**	**99.70%**	**0.00%**		
204	2	Surface	Aluminum	1.37E+04	0.00	0.05	0.00	0.05	94.13%
204	2	Surface	Chromium	1.80E+01	0.00	0.00		0.00	5.87%
204	2	Surface	**Totals**		**0.00**	**0.05**	**0.00**	**0.05**	
204	2	Surface	**Percent**		**4.84%**	**92.97%**	**2.18%**		
204	3	Surface	Chromium	2.06E+01	0.00	0.00		0.00	100.00%
204	3	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
204	3	Surface	**Percent**		**0.07%**	**99.93%**			
204	4	Surface	Antimony	1.10E+00	0.00	0.06		0.06	92.57%
204	4	Surface	Chromium	2.89E+01	0.00	0.00		0.00	7.43%
204	4	Surface	**Totals**		**0.00**	**0.07**		**0.07**	
204	4	Surface	**Percent**		**0.77%**	**99.23%**			
204	18	Surface	Uranium	1.60E+01	0.00	0.02	0.00	0.02	100.00%
204	18	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.02**	
204	18	Surface	**Percent**		**5.26%**	**94.62%**	**0.12%**		
204	23	Surface	Beryllium	1.33E+00	0.00	0.04	0.00	0.04	0.29%
204	23	Surface	Chromium	1.75E+02	0.00	0.03		0.03	0.19%
204	23	Surface	Uranium	1.31E+04	0.81	14.57	0.02	15.40	99.52%
204	23	Surface	**Totals**		**0.81**	**14.65**	**0.02**	**15.48**	
204	23	Surface	**Percent**		**5.23%**	**94.65%**	**0.12%**		
211	1	Surface	Chromium	4.48E+01	0.00	0.01		0.01	22.97%
211	1	Surface	Uranium	2.19E+01	0.00	0.02	0.00	0.03	77.03%
211	1	Surface	**Totals**		**0.00**	**0.03**	**0.00**	**0.03**	
211	1	Surface	**Percent**		**4.07%**	**95.84%**	**0.09%**		
212	1	Surface	Arsenic	1.44E+01	0.01	0.10	0.00	0.11	15.86%
212	1	Surface	Beryllium	8.10E-01	0.00	0.03	0.00	0.03	4.08%
212	1	Surface	Chromium	3.58E+01	0.00	0.01		0.01	0.92%
212	1	Surface	Iron	4.14E+04	0.01	0.20		0.21	31.31%
212	1	Surface	Nickel	8.69E+01	0.00	0.29	0.00	0.29	43.77%
212	1	Surface	Uranium	2.30E+01	0.00	0.03	0.00	0.03	4.06%
212	1	Surface	**Totals**		**0.02**	**0.64**	**0.00**	**0.67**	
212	1	Surface	**Percent**		**3.33%**	**96.54%**	**0.13%**		
213	1	Surface	Antimony	8.50E-01	0.00	0.05		0.05	10.46%
213	1	Surface	Chromium	4.78E+01	0.00	0.01		0.01	1.80%
213	1	Surface	Nickel	6.67E+01	0.00	0.22	0.00	0.22	49.06%
213	1	Surface	Silver	1.32E+01	0.00	0.18		0.18	38.68%
213	1	Surface	**Totals**		**0.00**	**0.46**	**0.00**	**0.46**	
213	1	Surface	**Percent**		**0.33%**	**99.60%**	**0.07%**		
213	2	Surface	Chromium	4.48E+01	0.00	0.01		0.01	1.66%
213	2	Surface	Nickel	9.10E+01	0.00	0.30	0.00	0.31	65.81%
213	2	Surface	Silver	1.13E+01	0.00	0.15		0.15	32.53%
213	2	Surface	**Totals**		**0.00**	**0.46**	**0.00**	**0.46**	
213	2	Surface	**Percent**		**0.27%**	**99.64%**	**0.09%**		
214	1	Surface	Antimony	5.70E-01	0.00	0.03		0.03	100.00%
214	1	Surface	**Totals**		**0.00**	**0.03**		**0.03**	
214	1	Surface	**Percent**		**0.83%**	**99.17%**			

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
215	1	Surface	Antimony	6.80E-01	0.00	0.04		0.04	7.82%
215	1	Surface	Chromium	5.73E+01	0.00	0.01		0.01	2.01%
215	1	Surface	Iron	3.87E+04	0.01	0.18		0.20	39.91%
215	1	Surface	Nickel	7.32E+01	0.00	0.24	0.00	0.25	50.26%
215	1	Surface	**Totals**		**0.01**	**0.48**	**0.00**	**0.49**	
215	1	Surface	**Percent**		**2.31%**	**97.62%**	**0.07%**		
216	1	Surface	Chromium	2.38E+01	0.00	0.00		0.00	100.00%
216	1	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
216	1	Surface	**Percent**		**0.07%**	**99.93%**			
217	1	Surface	Chromium	8.58E+01	0.00	0.01		0.01	2.00%
217	1	Surface	Cobalt	1.96E+01	0.01	0.22	0.00	0.23	31.48%
217	1	Surface	Manganese	7.70E+02	0.00	0.01	0.01	0.02	3.01%
217	1	Surface	Nickel	8.54E+01	0.00	0.29	0.00	0.29	38.98%
217	1	Surface	Silver	1.35E+01	0.00	0.18		0.18	24.52%
217	1	Surface	**Totals**		**0.01**	**0.71**	**0.01**	**0.74**	
217	1	Surface	**Percent**		**1.96%**	**96.92%**	**1.12%**		
217	2	Surface	Antimony	1.70E+00	0.00	0.09		0.10	3.83%
217	2	Surface	Arsenic	1.12E+01	0.01	0.07	0.00	0.08	3.28%
217	2	Surface	Chromium	1.02E+02	0.00	0.02		0.02	0.70%
217	2	Surface	Cobalt	1.74E+01	0.01	0.19	0.00	0.21	8.25%
217	2	Surface	Iron	3.09E+04	0.01	0.15		0.16	6.25%
217	2	Surface	Manganese	8.44E+02	0.00	0.02	0.01	0.02	0.97%
217	2	Surface	Mercury	8.59E+00	0.01	1.37		1.37	54.99%
217	2	Surface	Nickel	9.74E+01	0.00	0.33	0.00	0.33	13.10%
217	2	Surface	Silver	1.61E+01	0.00	0.22		0.22	8.64%
217	2	Surface	**Totals**		**0.03**	**2.45**	**0.01**	**2.50**	
217	2	Surface	**Percent**		**1.39%**	**98.25%**	**0.36%**		
219	1	Surface	Nickel	6.71E+01	0.00	0.22	0.00	0.23	100.00%
219	1	Surface	**Totals**		**0.00**	**0.22**	**0.00**	**0.23**	
219	1	Surface	**Percent**		**0.28%**	**99.58%**	**0.14%**		
221	1	Surface	Barium	2.21E+02	0.00	0.05	0.00	0.05	11.92%
221	1	Surface	Chromium	7.01E+01	0.00	0.01		0.01	2.70%
221	1	Surface	Iron	1.90E+04	0.01	0.09		0.10	21.44%
221	1	Surface	Nickel	7.93E+01	0.00	0.27	0.00	0.27	59.63%
221	1	Surface	Uranium	1.64E+01	0.00	0.02	0.00	0.02	4.32%
221	1	Surface	**Totals**		**0.01**	**0.44**	**0.00**	**0.45**	
221	1	Surface	**Percent**		**1.57%**	**98.30%**	**0.13%**		
222	1	Surface	Chromium	4.73E+01	0.00	0.01		0.01	2.32%
222	1	Surface	Nickel	9.19E+01	0.00	0.31	0.00	0.31	88.25%
222	1	Surface	Uranium	2.80E+01	0.00	0.03	0.00	0.03	9.43%
222	1	Surface	**Totals**		**0.00**	**0.35**	**0.00**	**0.35**	
222	1	Surface	**Percent**		**0.74%**	**99.12%**	**0.13%**		
224	1	Surface	Chromium	4.49E+01	0.00	0.01		0.01	13.62%
224	1	Surface	Uranium	4.15E+01	0.00	0.05	0.00	0.05	86.38%
224	1	Surface	**Totals**		**0.00**	**0.05**	**0.00**	**0.06**	
224	1	Surface	**Percent**		**4.55%**	**95.35%**	**0.10%**		
225	1	Surface	Chromium	2.55E+01	0.00	0.00		0.00	100.00%
225	1	Surface	**Totals**		**0.00**	**0.00**		**0.00**	
225	1	Surface	**Percent**		**0.07%**	**99.93%**			
226	1	Surface	Antimony	6.60E-01	0.00	0.04		0.04	1.33%
226	1	Surface	Chromium	4.25E+01	0.00	0.01		0.01	0.26%
226	1	Surface	Manganese	6.30E+02	0.00	0.01	0.01	0.02	0.65%
226	1	Surface	Mercury	9.74E+00	0.01	1.55		1.56	55.69%
226	1	Surface	Nickel	2.10E+02	0.00	0.70	0.00	0.70	25.17%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
226	1	Surface	Uranium	4.01E+02	0.02	0.45	0.00	0.47	16.90%
226	1	Surface	**Totals**		**0.03**	**2.76**	**0.01**	**2.80**	
226	1	Surface	**Percent**		**1.21%**	**98.54%**	**0.24%**		
227	1	Surface	Beryllium	5.52E-01	0.00	0.02	0.00	0.02	2.24%
227	1	Surface	Chromium	4.71E+01	0.00	0.01		0.01	0.98%
227	1	Surface	Nickel	2.03E+02	0.00	0.68	0.00	0.68	82.33%
227	1	Surface	Uranium	1.02E+02	0.01	0.11	0.00	0.12	14.46%
227	1	Surface	**Totals**		**0.01**	**0.82**	**0.00**	**0.83**	
227	1	Surface	**Percent**		**0.99%**	**98.87%**	**0.13%**		
227	2	Surface	Beryllium	5.32E-01	0.00	0.02	0.00	0.02	0.93%
227	2	Surface	Chromium	5.63E+01	0.00	0.01		0.01	0.50%
227	2	Surface	Cobalt	8.99E+00	0.01	0.10	0.00	0.11	5.55%
227	2	Surface	Mercury	8.41E+00	0.01	1.34		1.34	70.19%
227	2	Surface	Nickel	1.25E+02	0.00	0.42	0.00	0.42	21.90%
227	2	Surface	Uranium	1.51E+01	0.00	0.02	0.00	0.02	0.93%
227	2	Surface	**Totals**		**0.01**	**1.90**	**0.00**	**1.92**	
227	2	Surface	**Percent**		**0.67%**	**99.26%**	**0.06%**		
228	1	Surface	Antimony	6.30E-01	0.00	0.04		0.04	1.76%
228	1	Surface	Cadmium	3.90E+00	0.00	0.01	0.00	0.01	0.56%
228	1	Surface	Chromium	1.89E+02	0.00	0.03		0.03	1.61%
228	1	Surface	Mercury	9.37E+00	0.01	1.49		1.50	74.28%
228	1	Surface	Nickel	7.92E+01	0.00	0.26	0.00	0.27	13.18%
228	1	Surface	Silver	1.16E+01	0.00	0.16		0.16	7.74%
228	1	Surface	Uranium	1.51E+01	0.00	0.02	0.00	0.02	0.88%
228	1	Surface	**Totals**		**0.01**	**2.01**	**0.00**	**2.02**	
228	1	Surface	**Percent**		**0.44%**	**99.53%**	**0.03%**		
229	1	Surface	Nickel	9.14E+01	0.00	0.31	0.00	0.31	62.57%
229	1	Surface	Uranium	1.56E+02	0.01	0.17	0.00	0.18	37.43%
229	1	Surface	**Totals**		**0.01**	**0.48**	**0.00**	**0.49**	
229	1	Surface	**Percent**		**2.14%**	**97.73%**	**0.13%**		
229	2	Surface	Arsenic	2.12E+01	0.01	0.14	0.00	0.16	25.57%
229	2	Surface	Beryllium	7.90E-01	0.00	0.03	0.00	0.03	4.36%
229	2	Surface	Chromium	2.91E+01	0.00	0.00		0.01	0.82%
229	2	Surface	Nickel	9.93E+01	0.00	0.33	0.00	0.33	54.81%
229	2	Surface	Uranium	7.45E+01	0.00	0.08	0.00	0.09	14.43%
229	2	Surface	**Totals**		**0.02**	**0.59**	**0.00**	**0.61**	
229	2	Surface	**Percent**		**3.08%**	**96.72%**	**0.19%**		
483	1	Surface	Nickel	1.17E+02	0.00	0.39	0.00	0.39	72.28%
483	1	Surface	Silver	1.12E+01	0.00	0.15		0.15	27.72%
483	1	Surface	**Totals**		**0.00**	**0.54**	**0.00**	**0.54**	
483	1	Surface	**Percent**		**0.28%**	**99.62%**	**0.10%**		
486	1	Surface	**Totals**					**0.00**	
486	1	Surface	**Percent**						
487	1	Surface	**Totals**					**0.00**	
487	1	Surface	**Percent**						
488	1	Surface	Uranium	1.48E+01	0.00	0.02	0.00	0.02	100.00%
488	1	Surface	**Totals**		**0.00**	**0.02**	**0.00**	**0.02**	
488	1	Surface	**Percent**		**5.26%**	**94.62%**	**0.12%**		
489	1	Surface	Chromium	4.16E+01	0.00	0.01		0.01	2.63%
489	1	Surface	Nickel	7.88E+01	0.00	0.26	0.00	0.26	97.37%
489	1	Surface	**Totals**		**0.00**	**0.27**	**0.00**	**0.27**	
489	1	Surface	**Percent**		**0.27%**	**99.59%**	**0.14%**		
492	1	Surface	Arsenic	1.47E+01	0.01	0.10	0.00	0.11	0.24%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
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HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
492	1	Surface	Beryllium	1.04E+01	0.00	0.35	0.00	0.35	0.79%
492	1	Surface	Cadmium	3.14E+00	0.00	0.01	0.00	0.01	0.02%
492	1	Surface	Chromium	1.04E+03	0.00	0.18		0.18	0.40%
492	1	Surface	Uranium	1.77E+03	0.11	1.97	0.00	2.09	4.73%
492	1	Surface	Vanadium	4.32E+01	0.11	41.29	0.00	41.40	93.81%
492	1	Surface	**Totals**		**0.24**	**43.89**	**0.00**	**44.13**	
492	1	Surface	**Percent**		**0.53%**	**99.46%**	**0.01%**		
493	1	Surface	Aluminum	1.44E+04	0.00	0.05	0.00	0.05	0.13%
493	1	Surface	Barium	4.04E+02	0.00	0.10	0.00	0.10	0.24%
493	1	Surface	Beryllium	9.91E-01	0.00	0.03	0.00	0.03	0.08%
493	1	Surface	Chromium	6.61E+01	0.00	0.01		0.01	0.03%
493	1	Surface	Cobalt	3.79E+01	0.02	0.42	0.00	0.45	1.11%
493	1	Surface	Manganese	3.55E+03	0.00	0.07	0.03	0.10	0.25%
493	1	Surface	Mercury	2.60E-01	0.00	0.04		0.04	0.10%
493	1	Surface	Nickel	2.13E+02	0.00	0.71	0.00	0.72	1.77%
493	1	Surface	Vanadium	4.05E+01	0.11	38.71	0.00	38.81	96.27%
493	1	Surface	**Totals**		**0.14**	**40.14**	**0.04**	**40.32**	
493	1	Surface	**Percent**		**0.35%**	**99.56%**	**0.09%**		
517	1	Surface	Beryllium	7.39E-01	0.00	0.02	0.00	0.02	4.06%
517	1	Surface	Chromium	4.91E+01	0.00	0.01		0.01	1.38%
517	1	Surface	Nickel	1.72E+02	0.00	0.58	0.00	0.58	94.56%
517	1	Surface	**Totals**		**0.00**	**0.61**	**0.00**	**0.61**	
517	1	Surface	**Percent**		**0.27%**	**99.59%**	**0.13%**		
518	1	Surface	Cobalt	6.80E+00	0.00	0.08	0.00	0.08	20.59%
518	1	Surface	Nickel	1.29E+01	0.00	0.04	0.00	0.04	11.04%
518	1	Surface	Pyrene	3.94E+01	0.00	0.01	0.00	0.01	3.01%
518	1	Surface	Uranium	2.17E+02	0.01	0.24	0.00	0.26	65.36%
518	1	Surface	**Totals**		**0.02**	**0.37**	**0.00**	**0.39**	
518	1	Surface	**Percent**		**4.61%**	**95.15%**	**0.24%**		
520	1	Surface	Chromium	3.17E+01	0.00	0.01		0.01	0.19%
520	1	Surface	Iron	1.56E+04	0.00	0.07		0.08	2.74%
520	1	Surface	Mercury	1.07E+01	0.01	1.70		1.71	59.56%
520	1	Surface	Nickel	2.60E+02	0.00	0.87	0.00	0.87	30.50%
520	1	Surface	Silver	1.30E+01	0.00	0.17		0.17	6.07%
520	1	Surface	Uranium	2.29E+01	0.00	0.03	0.00	0.03	0.94%
520	1	Surface	**Totals**		**0.02**	**2.85**	**0.00**	**2.87**	
520	1	Surface	**Percent**		**0.53%**	**99.43%**	**0.04%**		
520	2	Surface	Beryllium	5.79E-01	0.00	0.02	0.00	0.02	0.64%
520	2	Surface	Chromium	6.67E+01	0.00	0.01		0.01	0.38%
520	2	Surface	Manganese	5.89E+02	0.00	0.01	0.00	0.02	0.56%
520	2	Surface	Mercury	1.19E+01	0.01	1.89		1.90	62.55%
520	2	Surface	Nickel	3.11E+02	0.00	1.04	0.00	1.04	34.34%
520	2	Surface	Uranium	3.96E+01	0.00	0.04	0.00	0.05	1.53%
520	2	Surface	**Totals**		**0.01**	**3.02**	**0.01**	**3.04**	
520	2	Surface	**Percent**		**0.45%**	**99.34%**	**0.21%**		
520	3	Surface	Chromium	3.97E+01	0.00	0.01		0.01	0.62%
520	3	Surface	Copper	1.19E+02	0.00	0.01		0.01	0.96%
520	3	Surface	Nickel	2.65E+02	0.00	0.89	0.00	0.89	80.90%
520	3	Surface	Silver	1.27E+01	0.00	0.17		0.17	15.46%
520	3	Surface	Uranium	1.92E+01	0.00	0.02	0.00	0.02	2.06%
520	3	Surface	**Totals**		**0.00**	**1.09**	**0.00**	**1.10**	
520	3	Surface	**Percent**		**0.43%**	**99.46%**	**0.11%**		
520	4	Surface	Chromium	3.82E+01	0.00	0.01		0.01	0.24%
520	4	Surface	Copper	1.11E+02	0.00	0.01		0.01	0.36%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
520	4	Surface	Mercury	9.69E+00	0.01	1.54		1.55	57.79%
520	4	Surface	Nickel	2.82E+02	0.00	0.94	0.00	0.95	35.32%
520	4	Surface	Silver	1.04E+01	0.00	0.14		0.14	5.22%
520	4	Surface	Uranium	2.40E+01	0.00	0.03	0.00	0.03	1.06%
520	4	Surface	**Totals**		**0.01**	**2.67**	**0.00**	**2.68**	
520	4	Surface	**Percent**		**0.41%**	**99.54%**	**0.05%**		
520	5	Surface	Antimony	9.60E-01	0.00	0.05		0.05	9.75%
520	5	Surface	Chromium	3.68E+01	0.00	0.01		0.01	1.14%
520	5	Surface	Nickel	1.47E+02	0.00	0.49	0.00	0.49	89.11%
520	5	Surface	**Totals**		**0.00**	**0.55**	**0.00**	**0.55**	
520	5	Surface	**Percent**		**0.33%**	**99.55%**	**0.12%**		
531	1	Surface	Antimony	1.00E+00	0.00	0.06		0.06	4.30%
531	1	Surface	Arsenic	4.68E+01	0.03	0.31	0.00	0.34	26.30%
531	1	Surface	Cadmium	3.10E+00	0.00	0.01	0.00	0.01	0.69%
531	1	Surface	Chromium	5.05E+01	0.00	0.01		0.01	0.66%
531	1	Surface	Iron	5.68E+04	0.02	0.27		0.29	21.95%
531	1	Surface	Nickel	1.62E+02	0.00	0.54	0.00	0.54	41.72%
531	1	Surface	Uranium	2.41E+01	0.00	0.03	0.00	0.03	2.17%
531	1	Surface	Zinc	2.45E+03	0.00	0.03		0.03	2.21%
531	1	Surface	**Totals**		**0.05**	**1.25**	**0.00**	**1.31**	
531	1	Surface	**Percent**		**3.80%**	**96.03%**	**0.17%**		
541	1	Surface	Aluminum	1.43E+04	0.00	0.05	0.00	0.05	0.14%
541	1	Surface	Barium	1.28E+02	0.00	0.03	0.00	0.03	0.08%
541	1	Surface	Beryllium	6.98E-01	0.00	0.02	0.00	0.02	0.06%
541	1	Surface	Cadmium	1.68E+00	0.00	0.00	0.00	0.00	0.01%
541	1	Surface	Chromium	8.24E+02	0.00	0.14		0.14	0.38%
541	1	Surface	Iron	1.60E+04	0.00	0.08		0.08	0.22%
541	1	Surface	Mercury	9.81E-02	0.00	0.02		0.02	0.04%
541	1	Surface	Naphthalene	6.55E-01	0.00	0.00	0.00	0.00	0.01%
541	1	Surface	Nickel	1.52E+01	0.00	0.05	0.00	0.05	0.14%
541	1	Surface	Uranium	6.38E+03	0.40	7.12	0.01	7.52	20.27%
541	1	Surface	Vanadium	3.04E+01	0.08	29.09	0.00	29.17	78.64%
541	1	Surface	**Totals**		**0.48**	**36.60**	**0.01**	**37.10**	
541	1	Surface	**Percent**		**1.30%**	**98.66%**	**0.04%**		
561	1	Surface	Antimony	9.36E-01	0.00	0.05		0.05	0.14%
561	1	Surface	Arsenic	1.66E+01	0.01	0.11	0.00	0.12	0.33%
561	1	Surface	Barium	1.40E+02	0.00	0.03	0.00	0.03	0.09%
561	1	Surface	Beryllium	6.85E-01	0.00	0.02	0.00	0.02	0.06%
561	1	Surface	Chromium	8.58E+01	0.00	0.01		0.01	0.04%
561	1	Surface	Cobalt	1.07E+01	0.01	0.12	0.00	0.13	0.34%
561	1	Surface	Iron	2.05E+04	0.01	0.10		0.10	0.28%
561	1	Surface	Manganese	1.61E+03	0.00	0.03	0.01	0.05	0.13%
561	1	Surface	Thallium	3.33E-01	0.00	0.01		0.01	0.04%
561	1	Surface	Uranium	2.65E+02	0.02	0.30	0.00	0.31	0.85%
561	1	Surface	Vanadium	3.76E+01	0.10	35.97	0.00	36.07	97.70%
561	1	Surface	**Totals**		**0.14**	**36.76**	**0.02**	**36.92**	
561	1	Surface	**Percent**		**0.39%**	**99.57%**	**0.04%**		
561	2	Surface	Antimony	5.33E+00	0.00	0.30		0.30	0.85%
561	2	Surface	Arsenic	1.30E+01	0.01	0.09	0.00	0.10	0.27%
561	2	Surface	Beryllium	6.34E-01	0.00	0.02	0.00	0.02	0.06%
561	2	Surface	Cadmium	4.13E-01	0.00	0.00	0.00	0.00	0.00%
561	2	Surface	Chromium	2.88E+02	0.00	0.05		0.05	0.14%
561	2	Surface	Cobalt	1.14E+01	0.01	0.13	0.00	0.13	0.38%
561	2	Surface	Manganese	1.12E+03	0.00	0.02	0.01	0.03	0.09%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.27. HIs for the Teen Recreational User Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	HI	Percent
561	2	Surface	Thallium	4.09E-01	0.00	0.02		0.02	0.05%
561	2	Surface	Uranium	1.38E+03	0.09	1.54	0.00	1.63	4.60%
561	2	Surface	Vanadium	3.46E+01	0.09	33.02	0.00	33.11	93.55%
561	2	Surface	**Totals**		**0.20**	**35.18**	**0.01**	**35.39**	
561	2	Surface	**Percent**		**0.56%**	**99.41%**	**0.04%**		
562	1	Surface	Uranium	8.73E+01	0.01	0.10	0.00	0.10	100.00%
562	1	Surface	**Totals**		**0.01**	**0.10**	**0.00**	**0.10**	
562	1	Surface	**Percent**		**5.26%**	**94.62%**	**0.12%**		
562	2	Surface	**Totals**					**0.00**	
562	2	Surface	**Percent**						
562	3	Surface	Chromium	3.82E+01	0.00	0.01		0.01	8.62%
562	3	Surface	Uranium	5.89E+01	0.00	0.07	0.00	0.07	91.38%
562	3	Surface	**Totals**		**0.00**	**0.07**	**0.00**	**0.08**	
562	3	Surface	**Percent**		**4.81%**	**95.08%**	**0.11%**		
562	4	Surface	Chromium	4.67E+01	0.00	0.01		0.01	24.46%
562	4	Surface	Uranium	2.10E+01	0.00	0.02	0.00	0.02	75.54%
562	4	Surface	**Totals**		**0.00**	**0.03**	**0.00**	**0.03**	
562	4	Surface	**Percent**		**3.99%**	**95.92%**	**0.09%**		
562	5	Surface	Chromium	1.53E+02	0.00	0.03		0.03	9.69%
562	5	Surface	Uranium	2.08E+02	0.01	0.23	0.00	0.25	90.31%
562	5	Surface	**Totals**		**0.01**	**0.26**	**0.00**	**0.27**	
562	5	Surface	**Percent**		**4.75%**	**95.14%**	**0.11%**		
563	1	Surface	Cadmium	8.96E-01	0.00	0.00	0.00	0.00	3.75%
563	1	Surface	Chromium	2.85E+02	0.00	0.05		0.05	70.59%
563	1	Surface	Uranium	1.51E+01	0.00	0.02	0.00	0.02	25.66%
563	1	Surface	**Totals**		**0.00**	**0.07**	**0.00**	**0.07**	
563	1	Surface	**Percent**		**1.64%**	**98.28%**	**0.08%**		
563	2	Surface	**Totals**					**0.00**	
563	2	Surface	**Percent**						
564	1	Surface	Arsenic	4.30E+01	0.03	0.29	0.00	0.32	0.40%
564	1	Surface	Beryllium	2.12E+00	0.00	0.07	0.00	0.07	0.09%
564	1	Surface	Cadmium	1.96E+00	0.00	0.01	0.00	0.01	0.01%
564	1	Surface	Chromium	7.49E+01	0.00	0.01		0.01	0.02%
564	1	Surface	Iron	3.66E+04	0.01	0.17		0.18	0.24%
564	1	Surface	Mercury	2.30E-01	0.00	0.04		0.04	0.05%
564	1	Surface	Nickel	2.24E+01	0.00	0.07	0.00	0.08	0.10%
564	1	Surface	Thallium	2.36E+00	0.01	0.10		0.10	0.13%
564	1	Surface	Uranium	5.83E+01	0.00	0.07	0.00	0.07	0.09%
564	1	Surface	Vanadium	8.06E+01	0.21	77.03	0.00	77.25	98.88%
564	1	Surface	**Totals**		**0.26**	**77.86**	**0.00**	**78.12**	
564	1	Surface	**Percent**		**0.33%**	**99.66%**	**0.00%**		
567	3	Surface	Chromium	3.79E+01	0.00	0.01		0.01	100.00%
567	3	Surface	**Totals**		**0.00**	**0.01**		**0.01**	
567	3	Surface	**Percent**		**0.07%**	**99.93%**			
567	4	Surface	Aluminum	1.25E+04	0.00	0.04	0.00	0.05	94.18%
567	4	Surface	Chromium	1.63E+01	0.00	0.00		0.00	5.82%
567	4	Surface	**Totals**		**0.00**	**0.04**	**0.00**	**0.05**	
567	4	Surface	**Percent**		**4.85%**	**92.97%**	**2.18%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
HI = hazard index

Table D.28. ELCR for the Current Industrial Worker

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
1	1	Surface	Beryllium	3.89E+00	1.64E-07	1.54E-05	2.06E-10		1.56E-05	94.79%
1	1	Surface	Cadmium	1.10E+00	4.09E-09	1.54E-08	4.37E-11		1.95E-08	0.12%
1	1	Surface	Cesium-137	5.91E-01	4.48E-10		7.94E-14	3.84E-07	3.84E-07	2.34%
1	1	Surface	Chromium	1.28E+01			2.38E-08		2.38E-08	0.14%
1	1	Surface	Neptunium-237	4.02E-01	1.14E-09		8.03E-11	8.18E-08	8.30E-08	0.51%
1	1	Surface	PCB, Total	1.76E-01	3.44E-09	4.53E-08	3.75E-09		5.25E-08	0.32%
1	1	Surface	Plutonium-239/240	6.14E+00	2.97E-08		2.31E-09	3.14E-10	3.23E-08	0.20%
1	1	Surface	Thorium-230	4.40E+01	1.56E-07		1.42E-08	9.22E-09	1.79E-07	1.09%
1	1	Surface	Uranium-235	1.06E-01	3.02E-10		1.21E-11	1.47E-08	1.50E-08	0.09%
1	1	Surface	Uranium-238	1.97E+00	7.25E-09		2.08E-10	5.75E-08	6.50E-08	0.40%
1	1	Surface	**Totals**		**3.66E-07**	**1.55E-05**	**4.46E-08**	**5.47E-07**	**1.64E-05**	
1	1	Surface	**Percent**		**2.23%**	**94.16%**	**0.27%**	**3.34%**		
1	2	Surface	Beryllium	8.23E+00	3.46E-07	3.25E-05	4.36E-10		3.29E-05	76.49%
1	2	Surface	Cadmium	6.46E+00	2.40E-08	9.03E-08	2.57E-10		1.15E-07	0.27%
1	2	Surface	Chromium	2.01E+02			3.73E-07		3.73E-07	0.87%
1	2	Surface	Nickel	5.75E+01			3.30E-10		3.30E-10	0.00%
1	2	Surface	PCB, Total	3.22E+01	6.31E-07	8.30E-06	6.86E-07		9.61E-06	22.37%
1	2	Surface	**Totals**		**1.00E-06**	**4.09E-05**	**1.06E-06**		**4.30E-05**	
1	2	Surface	**Percent**		**2.33%**	**95.20%**	**2.47%**			
1	3	Surface	Chromium	1.45E+01			2.69E-08		2.69E-08	18.08%
1	3	Surface	PCB, Total	2.17E-01	4.25E-09	5.59E-08	4.62E-09		6.48E-08	43.58%
1	3	Surface	Uranium-238	1.73E+00	6.36E-09		1.83E-10	5.04E-08	5.70E-08	38.34%
1	3	Surface	**Totals**		**1.06E-08**	**5.59E-08**	**3.17E-08**	**5.04E-08**	**1.49E-07**	
1	3	Surface	**Percent**		**7.14%**	**37.61%**	**21.31%**	**33.94%**		
1	4	Surface	Beryllium	7.25E-01	3.05E-08	2.87E-06	3.84E-11		2.90E-06	90.56%
1	4	Surface	Chromium	9.30E+01			1.73E-07		1.73E-07	5.40%
1	4	Surface	Cobalt-60	2.20E-02	1.55E-11		8.89E-15	6.98E-08	6.98E-08	2.18%
1	4	Surface	Nickel	4.69E+01			2.69E-10		2.69E-10	0.01%
1	4	Surface	PCB, Total	1.30E-01	2.54E-09	3.35E-08	2.77E-09		3.88E-08	1.21%
1	4	Surface	Thorium-230	5.03E+00	1.78E-08		1.62E-09	1.05E-09	2.05E-08	0.64%
1	4	Surface	**Totals**		**5.08E-08**	**2.90E-06**	**1.77E-07**	**7.08E-08**	**3.20E-06**	
1	4	Surface	**Percent**		**1.59%**	**90.65%**	**5.54%**	**2.21%**		
1	5	Surface	Beryllium	8.30E+00	3.49E-07	3.28E-05	4.40E-10		3.32E-05	99.42%
1	5	Surface	Cadmium	1.20E+00	4.46E-09	1.68E-08	4.77E-11		2.13E-08	0.06%
1	5	Surface	Nickel	4.07E+01			2.34E-10		2.34E-10	0.00%
1	5	Surface	PCB, Total	2.70E-01	5.28E-09	6.95E-08	5.75E-09		8.06E-08	0.24%
1	5	Surface	Total PAH	9.83E-02	7.02E-09	8.58E-08	1.42E-10		9.30E-08	0.28%
1	5	Surface	**Totals**		**3.66E-07**	**3.30E-05**	**6.61E-09**		**3.34E-05**	
1	5	Surface	**Percent**		**1.10%**	**98.88%**	**0.02%**			
12	1	Surface	Arsenic	1.34E+01	1.97E-07	5.54E-07	1.28E-09		7.52E-07	2.47%
12	1	Surface	Beryllium	6.72E+00	2.83E-07	2.66E-05	3.56E-10		2.68E-05	88.09%
12	1	Surface	Cadmium	1.02E+00	3.79E-09	1.43E-08	4.06E-11		1.81E-08	0.06%
12	1	Surface	Chromium	6.33E+01			1.17E-07		1.17E-07	0.39%
12	1	Surface	Cobalt	9.16E+00			1.82E-09		1.82E-09	0.01%
12	1	Surface	Nickel	7.74E+01			4.45E-10		4.45E-10	0.00%
12	1	Surface	PCB, Total	3.90E-01	7.63E-09	1.00E-07	8.30E-09		1.16E-07	0.38%
12	1	Surface	Total PAH	1.70E-01	1.21E-08	1.48E-07	2.46E-10		1.61E-07	0.53%
12	1	Surface	Uranium-234	1.50E+01	4.15E-08		1.93E-09	9.68E-10	4.44E-08	0.15%
12	1	Surface	Uranium-235	1.53E+00	4.35E-09		1.74E-10	2.12E-07	2.16E-07	0.71%
12	1	Surface	Uranium-238	6.68E+01	2.46E-07		7.06E-09	1.95E-06	2.20E-06	7.22%
12	1	Surface	**Totals**		**7.94E-07**	**2.74E-05**	**1.39E-07**	**2.16E-06**	**3.05E-05**	
12	1	Surface	**Percent**		**2.61%**	**89.85%**	**0.46%**	**7.09%**		
13	1	Surface	PCB, Total	7.00E-01	1.37E-08	1.80E-07	1.49E-08		2.09E-07	100.00%
13	1	Surface	**Totals**		**1.37E-08**	**1.80E-07**	**1.49E-08**		**2.09E-07**	
13	1	Surface	**Percent**		**6.56%**	**86.31%**	**7.13%**			
13	4	Surface	Uranium-238	1.32E+00	4.85E-09		1.39E-10	3.85E-08	4.35E-08	100.00%
13	4	Surface	**Totals**		**4.85E-09**		**1.39E-10**	**3.85E-08**	**4.35E-08**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
13	4	Surface	**Percent**		**11.16%**		**0.32%**	**88.52%**		
13	5	Surface	Cadmium	1.20E+00	4.46E-09	1.68E-08	4.77E-11		2.13E-08	5.00%
13	5	Surface	Chromium	1.51E+01			2.80E-08		2.80E-08	6.58%
13	5	Surface	Nickel	1.17E+02			6.69E-10		6.69E-10	0.16%
13	5	Surface	PCB, Total	1.05E+00	2.05E-08	2.70E-07	2.23E-08		3.13E-07	73.50%
13	5	Surface	Total PAH	6.65E-02	4.75E-09	5.80E-08	9.62E-11		6.29E-08	14.76%
13	5	Surface	**Totals**		**2.97E-08**	**3.45E-07**	**5.12E-08**		**4.26E-07**	
13	5	Surface	**Percent**		**6.98%**	**81.00%**	**12.01%**			
13	6	Surface	Uranium-238	1.32E+00	4.84E-09		1.39E-10	3.84E-08	4.33E-08	100.00%
13	6	Surface	**Totals**		**4.84E-09**		**1.39E-10**	**3.84E-08**	**4.33E-08**	
13	6	Surface	**Percent**		**11.16%**		**0.32%**	**88.52%**		
13	9	Surface	Neptunium-237	8.90E-01	2.52E-09		1.78E-10	1.81E-07	1.84E-07	42.94%
13	9	Surface	Uranium-235	3.11E-01	8.87E-10		3.55E-11	4.32E-08	4.41E-08	10.30%
13	9	Surface	Uranium-238	6.08E+00	2.23E-08		6.42E-10	1.77E-07	2.00E-07	46.76%
13	9	Surface	**Totals**		**2.58E-08**		**8.55E-10**	**4.02E-07**	**4.28E-07**	
13	9	Surface	**Percent**		**6.01%**		**0.20%**	**93.79%**		
13	11	Surface	Cobalt-60	1.30E-02	9.17E-12		5.25E-15	4.12E-08	4.12E-08	100.00%
13	11	Surface	**Totals**		**9.17E-12**		**5.25E-15**	**4.12E-08**	**4.12E-08**	
13	11	Surface	**Percent**		**0.02%**		**0.00%**	**99.98%**		
14	1	Surface	Americium-241	1.27E+00	4.81E-09		4.02E-10	8.94E-09	1.42E-08	1.33%
14	1	Surface	Arsenic	1.10E+01	1.61E-07	4.54E-07	1.05E-09		6.17E-07	58.09%
14	1	Surface	Chromium	6.36E+01			1.18E-07		1.18E-07	11.12%
14	1	Surface	Neptunium-237	2.14E-01	6.07E-10		4.28E-11	4.36E-08	4.42E-08	4.16%
14	1	Surface	Nickel	1.40E+02			8.03E-10		8.03E-10	0.08%
14	1	Surface	PCB, Total	5.00E-01	9.78E-09	1.29E-07	1.06E-08		1.49E-07	14.05%
14	1	Surface	Technetium-99	4.06E+02	5.44E-08		6.46E-11	8.45E-09	6.29E-08	5.93%
14	1	Surface	Uranium-238	1.69E+00	6.21E-09		1.78E-10	4.93E-08	5.57E-08	5.24%
14	1	Surface	**Totals**		**2.37E-07**	**5.83E-07**	**1.31E-07**	**1.10E-07**	**1.06E-06**	
14	1	Surface	**Percent**		**22.32%**	**54.94%**	**12.36%**	**10.38%**		
14	2	Surface	Arsenic	1.45E+01	2.13E-07	6.01E-07	1.39E-09		8.16E-07	12.31%
14	2	Surface	Beryllium	7.10E-01	2.99E-08	2.81E-06	3.76E-11		2.84E-06	42.81%
14	2	Surface	Chromium	6.65E+01			1.23E-07		1.23E-07	1.86%
14	2	Surface	Neptunium-237	7.70E-01	2.18E-09		1.54E-10	1.57E-07	1.59E-07	2.40%
14	2	Surface	Nickel	6.78E+02			3.89E-09		3.89E-09	0.06%
14	2	Surface	PCB, Total	3.90E-01	7.63E-09	1.00E-07	8.30E-09		1.16E-07	1.76%
14	2	Surface	Thorium-230	5.98E+00	2.11E-08		1.92E-09	1.25E-09	2.43E-08	0.37%
14	2	Surface	Total PAH	3.38E-01	2.42E-08	2.95E-07	4.89E-10		3.20E-07	4.83%
14	2	Surface	Uranium-234	3.24E+01	8.96E-08		4.17E-09	2.09E-09	9.58E-08	1.45%
14	2	Surface	Uranium-235	2.00E+00	5.71E-09		2.28E-10	2.78E-07	2.84E-07	4.28%
14	2	Surface	Uranium-238	5.61E+01	2.06E-07		5.92E-09	1.64E-06	1.85E-06	27.88%
14	2	Surface	**Totals**		**6.00E-07**	**3.80E-06**	**1.50E-07**	**2.07E-06**	**6.63E-06**	
14	2	Surface	**Percent**		**9.05%**	**57.40%**	**2.26%**	**31.29%**		
14	3	Surface	Arsenic	1.30E+01	1.90E-07	5.37E-07	1.24E-09		7.28E-07	20.86%
14	3	Surface	Chromium	7.01E+01			1.30E-07		1.30E-07	3.73%
14	3	Surface	Nickel	5.76E+02			3.31E-09		3.31E-09	0.09%
14	3	Surface	PCB, Total	8.65E+00	1.69E-07	2.23E-06	1.84E-07		2.58E-06	73.90%
14	3	Surface	Uranium-238	1.50E+00	5.51E-09		1.58E-10	4.37E-08	4.94E-08	1.41%
14	3	Surface	**Totals**		**3.65E-07**	**2.76E-06**	**3.19E-07**	**4.37E-08**	**3.49E-06**	
14	3	Surface	**Percent**		**10.46%**	**79.16%**	**9.13%**	**1.25%**		
14	4	Surface	Arsenic	1.33E+01	1.95E-07	5.50E-07	1.27E-09		7.46E-07	6.96%
14	4	Surface	Chromium	7.20E+01			1.34E-07		1.34E-07	1.25%
14	4	Surface	Neptunium-237	2.68E+00	7.60E-09		5.36E-10	5.45E-07	5.54E-07	5.17%
14	4	Surface	Nickel	7.31E+02			4.20E-09		4.20E-09	0.04%
14	4	Surface	PCB, Total	6.61E+00	1.29E-07	1.70E-06	1.41E-07		1.97E-06	18.40%
14	4	Surface	Thorium-230	8.33E+00	2.94E-08		2.68E-09	1.74E-09	3.39E-08	0.32%
14	4	Surface	Total PAH	2.51E-01	1.79E-08	2.19E-07	3.63E-10		2.37E-07	2.21%
14	4	Surface	Uranium-234	1.13E+02	3.12E-07		1.45E-08	7.28E-09	3.34E-07	3.12%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
14	4	Surface	Uranium-235	8.00E+00	2.28E-08		9.12E-10	1.11E-06	1.13E-06	10.59%
14	4	Surface	Uranium-238	1.69E+02	6.21E-07		1.78E-08	4.93E-06	5.57E-06	51.94%
14	4	Surface	**Totals**		**1.34E-06**	**2.47E-06**	**3.17E-07**	**6.59E-06**	**1.07E-05**	
14	4	Surface	**Percent**		**12.47%**	**23.05%**	**2.96%**	**61.52%**		
14	5	Surface	Arsenic	1.31E+01	1.92E-07	5.41E-07	1.25E-09		7.35E-07	13.43%
14	5	Surface	Cadmium	3.90E+00	1.45E-08	5.45E-08	1.55E-10		6.92E-08	1.26%
14	5	Surface	Chromium	4.70E+01			8.72E-08		8.72E-08	1.59%
14	5	Surface	Cobalt	1.40E+01			2.78E-09		2.78E-09	0.05%
14	5	Surface	Neptunium-237	1.74E+00	4.93E-09		3.48E-10	3.54E-07	3.59E-07	6.57%
14	5	Surface	Nickel	4.61E+02			2.65E-09		2.65E-09	0.05%
14	5	Surface	PCB, Total	1.00E+00	1.96E-08	2.58E-07	2.13E-08		2.98E-07	5.46%
14	5	Surface	Technetium-99	1.01E+02	1.35E-08		1.61E-11	2.10E-09	1.57E-08	0.29%
14	5	Surface	Thorium-230	1.39E+01	4.91E-08		4.47E-09	2.91E-09	5.65E-08	1.03%
14	5	Surface	Total PAH	1.21E-01	8.64E-09	1.06E-07	1.75E-10		1.14E-07	2.09%
14	5	Surface	Uranium-234	5.22E+01	1.44E-07		6.72E-09	3.36E-09	1.54E-07	2.82%
14	5	Surface	Uranium-235	3.33E+00	9.50E-09		3.80E-10	4.62E-07	4.72E-07	8.63%
14	5	Surface	Uranium-238	9.42E+01	3.46E-07		9.94E-09	2.75E-06	3.10E-06	56.72%
14	5	Surface	**Totals**		**8.02E-07**	**9.59E-07**	**1.37E-07**	**3.57E-06**	**5.47E-06**	
14	5	Surface	**Percent**		**14.67%**	**17.53%**	**2.51%**	**65.29%**		
14	6	Surface	Cadmium	8.40E-01	3.12E-09	1.17E-08	3.34E-11		1.49E-08	0.30%
14	6	Surface	Chromium	4.46E+02			8.28E-07		8.28E-07	16.61%
14	6	Surface	Neptunium-237	2.65E+00	7.51E-09		5.30E-10	5.39E-07	5.47E-07	10.99%
14	6	Surface	Nickel	9.63E+02			5.53E-09		5.53E-09	0.11%
14	6	Surface	PCB, Total	5.00E+00	9.78E-08	1.29E-06	1.06E-07		1.49E-06	29.94%
14	6	Surface	Uranium-234	3.41E+01	9.43E-08		4.39E-09	2.20E-09	1.01E-07	2.02%
14	6	Surface	Uranium-235	2.27E+00	6.48E-09		2.59E-10	3.15E-07	3.22E-07	6.46%
14	6	Surface	Uranium-238	5.08E+01	1.87E-07		5.36E-09	1.48E-06	1.67E-06	33.57%
14	6	Surface	**Totals**		**3.96E-07**	**1.30E-06**	**9.50E-07**	**2.34E-06**	**4.98E-06**	
14	6	Surface	**Percent**		**7.95%**	**26.08%**	**19.07%**	**46.91%**		
14	7	Surface	Arsenic	1.13E+01	1.66E-07	4.68E-07	1.08E-09		6.35E-07	14.69%
14	7	Surface	Cadmium	2.70E+00	1.00E-08	3.77E-08	1.07E-10		4.79E-08	1.11%
14	7	Surface	Chromium	6.46E+01			1.20E-07		1.20E-07	2.77%
14	7	Surface	Neptunium-237	1.49E+00	4.22E-09		2.98E-10	3.03E-07	3.08E-07	7.12%
14	7	Surface	Nickel	1.22E+03			7.03E-09		7.03E-09	0.16%
14	7	Surface	PCB, Total	7.60E+00	1.49E-07	1.96E-06	1.62E-07		2.27E-06	52.51%
14	7	Surface	Total PAH	6.31E-02	4.51E-09	5.51E-08	9.14E-11		5.97E-08	1.38%
14	7	Surface	Uranium-234	1.28E+01	3.54E-08		1.65E-09	8.25E-10	3.79E-08	0.88%
14	7	Surface	Uranium-235	9.60E-01	2.74E-09		1.09E-10	1.33E-07	1.36E-07	3.15%
14	7	Surface	Uranium-238	2.13E+01	7.83E-08		2.25E-09	6.21E-07	7.01E-07	16.23%
14	7	Surface	**Totals**		**4.50E-07**	**2.52E-06**	**2.94E-07**	**1.06E-06**	**4.32E-06**	
14	7	Surface	**Percent**		**10.41%**	**58.29%**	**6.81%**	**24.49%**		
14	8	Surface	Arsenic	1.14E+01	1.67E-07	4.71E-07	1.08E-09		6.39E-07	23.76%
14	8	Surface	Chromium	4.60E+01			8.54E-08		8.54E-08	3.18%
14	8	Surface	Neptunium-237	8.80E-01	2.49E-09		1.76E-10	1.79E-07	1.82E-07	6.76%
14	8	Surface	Nickel	6.73E+02			3.86E-09		3.86E-09	0.14%
14	8	Surface	PCB, Total	5.00E+00	9.78E-08	1.29E-06	1.06E-07		1.49E-06	55.46%
14	8	Surface	Total PAH	6.28E-02	4.48E-09	5.48E-08	9.08E-11		5.94E-08	2.21%
14	8	Surface	Uranium-235	2.38E-01	6.79E-10		2.71E-11	3.30E-08	3.38E-08	1.25%
14	8	Surface	Uranium-238	5.92E+00	2.18E-08		6.25E-10	1.73E-07	1.95E-07	7.25%
14	8	Surface	**Totals**		**2.94E-07**	**1.81E-06**	**1.98E-07**	**3.85E-07**	**2.69E-06**	
14	8	Surface	**Percent**		**10.94%**	**67.41%**	**7.35%**	**14.30%**		
14	9	Surface	Arsenic	1.40E+01	2.06E-07	5.81E-07	1.34E-09		7.89E-07	1.42%
14	9	Surface	Cadmium	9.40E-01	3.50E-09	1.31E-08	3.74E-11		1.67E-08	0.03%
14	9	Surface	Cesium-137	4.53E-01	3.43E-10		6.09E-14	2.94E-07	2.95E-07	0.53%
14	9	Surface	Chromium	4.64E+01			8.62E-08		8.62E-08	0.15%
14	9	Surface	Neptunium-237	1.09E+01	3.10E-08		2.18E-09	2.22E-06	2.26E-06	4.05%
14	9	Surface	Nickel	9.43E+02			5.42E-09		5.42E-09	0.01%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
14	9	Surface	PCB, Total	6.84E+00	1.34E-07	1.76E-06	1.46E-07		2.04E-06	3.67%
14	9	Surface	Technetium-99	1.96E+02	2.63E-08		3.12E-11	4.08E-09	3.04E-08	0.05%
14	9	Surface	Total PAH	4.87E-01	3.48E-08	4.25E-07	7.05E-10		4.61E-07	0.83%
14	9	Surface	Uranium-234	8.32E+02	2.30E-06		1.07E-07	5.36E-08	2.46E-06	4.42%
14	9	Surface	Uranium-235	5.46E+01	1.56E-07		6.22E-09	7.57E-06	7.74E-06	13.89%
14	9	Surface	Uranium-238	1.20E+03	4.41E-06		1.27E-07	3.50E-05	3.95E-05	70.95%
14	9	Surface	**Totals**		**7.30E-06**	**2.78E-06**	**4.82E-07**	**4.51E-05**	**5.57E-05**	
14	9	Surface	**Percent**		**13.11%**	**4.99%**	**0.86%**	**81.03%**		
14	10	Surface	Arsenic	1.12E+01	1.65E-07	4.65E-07	1.07E-09		6.31E-07	10.55%
14	10	Surface	Chromium	4.19E+01			7.77E-08		7.77E-08	1.30%
14	10	Surface	Neptunium-237	2.64E+00	7.48E-09		5.28E-10	5.37E-07	5.45E-07	9.12%
14	10	Surface	Nickel	6.00E+02			3.45E-09		3.45E-09	0.06%
14	10	Surface	PCB, Total	9.38E+00	1.84E-07	2.42E-06	2.00E-07		2.80E-06	46.80%
14	10	Surface	Total PAH	2.72E-01	1.94E-08	2.37E-07	3.93E-10		2.57E-07	4.29%
14	10	Surface	Uranium-234	2.42E+01	6.69E-08		3.11E-09	1.56E-09	7.16E-08	1.20%
14	10	Surface	Uranium-235	1.76E+00	5.02E-09		2.01E-10	2.44E-07	2.50E-07	4.17%
14	10	Surface	Uranium-238	4.09E+01	1.50E-07		4.32E-09	1.19E-06	1.35E-06	22.52%
14	10	Surface	**Totals**		**5.98E-07**	**3.12E-06**	**2.90E-07**	**1.98E-06**	**5.98E-06**	
14	10	Surface	**Percent**		**9.99%**	**52.13%**	**4.85%**	**33.03%**		
15	1	Surface	Arsenic	1.24E+01	1.82E-07	5.12E-07	1.18E-09		6.95E-07	27.73%
15	1	Surface	Chromium	5.61E+01			1.04E-07		1.04E-07	4.16%
15	1	Surface	Nickel	1.33E+02			7.62E-10		7.62E-10	0.03%
15	1	Surface	PCB, Total	7.80E-02	1.53E-09	2.01E-08	1.66E-09		2.33E-08	0.93%
15	1	Surface	Total PAH	1.71E+00	1.22E-07	1.50E-06	2.48E-09		1.62E-06	64.72%
15	1	Surface	Uranium-238	1.85E+00	6.80E-09		1.95E-10	5.39E-08	6.09E-08	2.43%
15	1	Surface	**Totals**		**3.12E-07**	**2.03E-06**	**1.10E-07**	**5.39E-08**	**2.51E-06**	
15	1	Surface	**Percent**		**12.47%**	**80.97%**	**4.41%**	**2.15%**		
15	2	Surface	Arsenic	1.63E+01	2.39E-07	6.73E-07	1.55E-09		9.13E-07	25.26%
15	2	Surface	Chromium	5.90E+01			1.10E-07		1.10E-07	3.03%
15	2	Surface	Neptunium-237	1.35E-01	3.83E-10		2.70E-11	2.75E-08	2.79E-08	0.77%
15	2	Surface	Nickel	1.97E+02			1.13E-09		1.13E-09	0.03%
15	2	Surface	PCB, Total	3.30E-01	6.46E-09	8.50E-08	7.02E-09		9.85E-08	2.72%
15	2	Surface	Total PAH	2.11E+00	1.51E-07	1.84E-06	3.05E-09		1.99E-06	55.14%
15	2	Surface	Uranium-234	6.51E+00	1.80E-08		8.38E-10	4.19E-10	1.93E-08	0.53%
15	2	Surface	Uranium-235	3.80E-01	1.08E-09		4.33E-11	5.28E-08	5.39E-08	1.49%
15	2	Surface	Uranium-238	1.21E+01	4.45E-08		1.28E-09	3.53E-07	3.98E-07	11.02%
15	2	Surface	**Totals**		**4.60E-07**	**2.60E-06**	**1.24E-07**	**4.33E-07**	**3.62E-06**	
15	2	Surface	**Percent**		**12.71%**	**71.86%**	**3.44%**	**11.99%**		
15	3	Surface	Arsenic	2.60E+01	3.81E-07	1.08E-06	2.48E-09		1.46E-06	11.07%
15	3	Surface	Beryllium	7.60E-01	3.20E-08	3.00E-06	4.03E-11		3.04E-06	23.02%
15	3	Surface	Cadmium	1.19E+01	4.42E-08	1.66E-07	4.73E-10		2.11E-07	1.60%
15	3	Surface	Chromium	7.53E+01			1.40E-07		1.40E-07	1.06%
15	3	Surface	Cobalt	3.41E+01			6.78E-09		6.78E-09	0.05%
15	3	Surface	Neptunium-237	4.10E+00	1.16E-08		8.19E-10	8.35E-07	8.47E-07	6.42%
15	3	Surface	Nickel	7.57E+02			4.35E-09		4.35E-09	0.03%
15	3	Surface	PCB, Total	6.82E+00	1.34E-07	1.76E-06	1.45E-07		2.04E-06	15.44%
15	3	Surface	Technetium-99	3.67E+02	4.92E-08		5.84E-11	7.64E-09	5.69E-08	0.43%
15	3	Surface	Thorium-230	7.23E+00	2.56E-08		2.33E-09	1.51E-09	2.94E-08	0.22%
15	3	Surface	Total PAH	1.45E+00	1.04E-07	1.27E-06	2.10E-09		1.38E-06	10.43%
15	3	Surface	Uranium-234	6.96E+01	1.92E-07		8.96E-09	4.48E-09	2.06E-07	1.56%
15	3	Surface	Uranium-235	4.21E+00	1.20E-08		4.80E-10	5.85E-07	5.97E-07	4.53%
15	3	Surface	Uranium-238	9.67E+01	3.55E-07		1.02E-08	2.82E-06	3.18E-06	24.14%
15	3	Surface	**Totals**		**1.34E-06**	**7.27E-06**	**3.24E-07**	**4.25E-06**	**1.32E-05**	
15	3	Surface	**Percent**		**10.17%**	**55.14%**	**2.46%**	**32.23%**		
15	4	Surface	Arsenic	3.47E+01	5.09E-07	1.43E-06	3.30E-09		1.95E-06	14.60%
15	4	Surface	Cadmium	1.40E+00	5.21E-09	1.96E-08	5.57E-11		2.48E-08	0.19%
15	4	Surface	Chromium	1.02E+02			1.90E-07		1.90E-07	1.42%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
15	4	Surface	Neptunium-237	8.00E-01	2.27E-09		1.60E-10	1.63E-07	1.65E-07	1.24%
15	4	Surface	Nickel	1.37E+03			7.89E-09		7.89E-09	0.06%
15	4	Surface	PCB, Total	2.67E+01	5.23E-07	6.88E-06	5.69E-07		7.97E-06	59.82%
15	4	Surface	Total PAH	2.44E+00	1.75E-07	2.13E-06	3.54E-09		2.31E-06	17.35%
15	4	Surface	Uranium-234	1.07E+01	2.96E-08		1.38E-09	6.89E-10	3.17E-08	0.24%
15	4	Surface	Uranium-235	4.30E-01	1.23E-09		4.90E-11	5.97E-08	6.10E-08	0.46%
15	4	Surface	Uranium-238	1.87E+01	6.87E-08		1.97E-09	5.45E-07	6.16E-07	4.62%
15	4	Surface	**Totals**		**1.31E-06**	**1.05E-05**	**7.77E-07**	**7.68E-07**	**1.33E-05**	
15	4	Surface	**Percent**		**9.85%**	**78.55%**	**5.83%**	**5.77%**		
15	5	Surface	Arsenic	1.28E+01	1.88E-07	5.29E-07	1.22E-09		7.18E-07	7.65%
15	5	Surface	Cadmium	1.50E+00	5.58E-09	2.10E-08	5.97E-11		2.66E-08	0.28%
15	5	Surface	Chromium	4.28E+01			7.94E-08		7.94E-08	0.85%
15	5	Surface	Neptunium-237	6.90E-01	1.96E-09		1.38E-10	1.40E-07	1.43E-07	1.52%
15	5	Surface	Nickel	5.10E+02			2.93E-09		2.93E-09	0.03%
15	5	Surface	PCB, Total	2.51E+01	4.92E-07	6.47E-06	5.35E-07		7.50E-06	79.86%
15	5	Surface	Technetium-99	1.07E+02	1.43E-08		1.70E-11	2.23E-09	1.66E-08	0.18%
15	5	Surface	Total PAH	5.11E-01	3.65E-08	4.46E-07	7.39E-10		4.83E-07	5.14%
15	5	Surface	Uranium-234	5.83E+00	1.61E-08		7.50E-10	3.76E-10	1.72E-08	0.18%
15	5	Surface	Uranium-235	4.60E-01	1.31E-09		5.25E-11	6.39E-08	6.52E-08	0.69%
15	5	Surface	Uranium-238	1.03E+01	3.79E-08		1.09E-09	3.00E-07	3.39E-07	3.61%
15	5	Surface	**Totals**		**7.93E-07**	**7.47E-06**	**6.21E-07**	**5.07E-07**	**9.39E-06**	
15	5	Surface	**Percent**		**8.45%**	**79.53%**	**6.62%**	**5.40%**		
15	6	Surface	Arsenic	1.24E+01	1.82E-07	5.14E-07	1.18E-09		6.98E-07	14.08%
15	6	Surface	Cadmium	1.50E+00	5.58E-09	2.10E-08	5.97E-11		2.66E-08	0.54%
15	6	Surface	Chromium	5.80E+01			1.08E-07		1.08E-07	2.17%
15	6	Surface	Cobalt	1.62E+01			3.22E-09		3.22E-09	0.06%
15	6	Surface	Neptunium-237	6.40E-01	1.81E-09		1.28E-10	1.30E-07	1.32E-07	2.67%
15	6	Surface	Nickel	3.24E+02			1.86E-09		1.86E-09	0.04%
15	6	Surface	PCB, Total	6.17E+00	1.21E-07	1.59E-06	1.31E-07		1.84E-06	37.10%
15	6	Surface	Total PAH	1.62E+00	1.16E-07	1.42E-06	2.35E-09		1.54E-06	30.97%
15	6	Surface	Uranium-234	8.74E+00	2.42E-08		1.12E-09	5.63E-10	2.59E-08	0.52%
15	6	Surface	Uranium-235	5.70E-01	1.63E-09		6.50E-11	7.91E-08	8.08E-08	1.63%
15	6	Surface	Uranium-238	1.54E+01	5.66E-08		1.63E-09	4.49E-07	5.07E-07	10.23%
15	6	Surface	**Totals**		**5.09E-07**	**3.54E-06**	**2.50E-07**	**6.59E-07**	**4.96E-06**	
15	6	Surface	**Percent**		**10.26%**	**71.40%**	**5.05%**	**13.29%**		
15	7	Surface	Arsenic	1.61E+01	2.36E-07	6.66E-07	1.53E-09		9.03E-07	9.74%
15	7	Surface	Cadmium	1.00E+00	3.72E-09	1.40E-08	3.98E-11		1.77E-08	0.19%
15	7	Surface	Chromium	7.87E+01			1.46E-07		1.46E-07	1.58%
15	7	Surface	Neptunium-237	2.23E-01	6.32E-10		4.46E-11	4.54E-08	4.61E-08	0.50%
15	7	Surface	Nickel	5.59E+02			3.21E-09		3.21E-09	0.03%
15	7	Surface	PCB, Total	2.57E+01	5.02E-07	6.61E-06	5.46E-07		7.66E-06	82.59%
15	7	Surface	Total PAH	1.59E-01	1.13E-08	1.39E-07	2.30E-10		1.50E-07	1.62%
15	7	Surface	Uranium-234	6.49E+00	1.79E-08		8.35E-10	4.18E-10	1.92E-08	0.21%
15	7	Surface	Uranium-235	4.50E-01	1.28E-09		5.13E-11	6.25E-08	6.38E-08	0.69%
15	7	Surface	Uranium-238	8.05E+00	2.96E-08		8.50E-10	2.35E-07	2.65E-07	2.86%
15	7	Surface	**Totals**		**8.03E-07**	**7.43E-06**	**6.99E-07**	**3.43E-07**	**9.27E-06**	
15	7	Surface	**Percent**		**8.66%**	**80.11%**	**7.54%**	**3.70%**		
15	8	Surface	Arsenic	1.17E+01	1.71E-07	4.82E-07	1.11E-09		6.54E-07	22.27%
15	8	Surface	Chromium	7.74E+01			1.44E-07		1.44E-07	4.89%
15	8	Surface	Neptunium-237	3.65E-01	1.03E-09		7.29E-11	7.43E-08	7.54E-08	2.57%
15	8	Surface	Nickel	1.82E+02			1.04E-09		1.04E-09	0.04%
15	8	Surface	PCB, Total	4.90E+00	9.59E-08	1.26E-06	1.04E-07		1.46E-06	49.77%
15	8	Surface	Total PAH	3.59E-01	2.56E-08	3.13E-07	5.19E-10		3.39E-07	11.55%
15	8	Surface	Uranium-235	3.04E-01	8.67E-10		3.47E-11	4.22E-08	4.31E-08	1.47%
15	8	Surface	Uranium-238	6.64E+00	2.44E-08		7.01E-10	1.94E-07	2.19E-07	7.44%
15	8	Surface	**Totals**		**3.19E-07**	**2.06E-06**	**2.51E-07**	**3.10E-07**	**2.94E-06**	
15	8	Surface	**Percent**		**10.85%**	**70.03%**	**8.56%**	**10.56%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
15	9	Surface	Arsenic	1.10E+01	1.62E-07	4.57E-07	1.05E-09		6.20E-07	43.74%
15	9	Surface	Chromium	9.56E+01			1.77E-07		1.77E-07	12.52%
15	9	Surface	Neptunium-237	1.28E-01	3.63E-10		2.56E-11	2.61E-08	2.64E-08	1.87%
15	9	Surface	Nickel	1.49E+02			8.55E-10		8.55E-10	0.06%
15	9	Surface	PCB, Total	3.30E-01	6.46E-09	8.50E-08	7.02E-09		9.85E-08	6.95%
15	9	Surface	Total PAH	2.38E-01	1.70E-08	2.08E-07	3.45E-10		2.25E-07	15.90%
15	9	Surface	Uranium-235	2.42E-01	6.90E-10		2.76E-11	3.36E-08	3.43E-08	2.42%
15	9	Surface	Uranium-238	7.12E+00	2.62E-08		7.52E-10	2.08E-07	2.34E-07	16.54%
15	9	Surface	**Totals**		**2.13E-07**	**7.50E-07**	**1.88E-07**	**2.67E-07**	**1.42E-06**	
15	9	Surface	**Percent**		**15.01%**	**52.91%**	**13.23%**	**18.85%**		
15	10	Surface	Chromium	3.55E+01			6.59E-08		6.59E-08	35.01%
15	10	Surface	Nickel	1.46E+02			8.37E-10		8.37E-10	0.44%
15	10	Surface	Total PAH	1.28E-01	9.17E-09	1.12E-07	1.86E-10		1.21E-07	64.55%
15	10	Surface	**Totals**		**9.17E-09**	**1.12E-07**	**6.69E-08**		**1.88E-07**	
15	10	Surface	**Percent**		**4.88%**	**59.57%**	**35.55%**			
16	1	Surface	Cesium-137	1.10E+00	8.34E-10		1.48E-13	7.14E-07	7.15E-07	92.94%
16	1	Surface	PCB, Total	9.60E-02	1.88E-09	2.47E-08	2.04E-09		2.86E-08	3.72%
16	1	Surface	Total PAH	2.72E-02	1.94E-09	2.37E-08	3.94E-11		2.57E-08	3.34%
16	1	Surface	**Totals**		**4.66E-09**	**4.85E-08**	**2.08E-09**	**7.14E-07**	**7.70E-07**	
16	1	Surface	**Percent**		**0.60%**	**6.30%**	**0.27%**	**92.83%**		
16	2	Surface	Beryllium	8.40E-01	3.53E-08	3.32E-06	4.45E-11		3.36E-06	98.88%
16	2	Surface	Chromium	2.04E+01			3.79E-08		3.79E-08	1.12%
16	2	Surface	Nickel	2.16E+01			1.24E-10		1.24E-10	0.00%
16	2	Surface	**Totals**		**3.53E-08**	**3.32E-06**	**3.80E-08**		**3.39E-06**	
16	2	Surface	**Percent**		**1.04%**	**97.84%**	**1.12%**			
16	3	Surface	PCB, Total	9.49E-01	1.86E-08	2.44E-07	2.02E-08		2.83E-07	100.00%
16	3	Surface	**Totals**		**1.86E-08**	**2.44E-07**	**2.02E-08**		**2.83E-07**	
16	3	Surface	**Percent**		**6.56%**	**86.31%**	**7.13%**			
16	4	Surface	Cesium-137	3.66E+01	2.77E-08		4.91E-12	2.38E-05	2.38E-05	61.58%
16	4	Surface	Cobalt-60	8.53E-03	6.02E-12		3.45E-15	2.70E-08	2.71E-08	0.07%
16	4	Surface	Neptunium-237	7.12E+00	2.02E-08		1.42E-09	1.45E-06	1.47E-06	3.81%
16	4	Surface	PCB, Total	3.20E-01	6.26E-09	8.24E-08	6.81E-09		9.55E-08	0.25%
16	4	Surface	Technetium-99	2.96E+02	3.96E-08		4.71E-11	6.15E-09	4.58E-08	0.12%
16	4	Surface	Thorium-230	5.29E+00	1.87E-08		1.70E-09	1.11E-09	2.15E-08	0.06%
16	4	Surface	Total PAH	2.93E+00	2.09E-07	2.56E-06	4.24E-09		2.77E-06	7.17%
16	4	Surface	Uranium-234	1.19E+02	3.29E-07		1.53E-08	7.67E-09	3.52E-07	0.91%
16	4	Surface	Uranium-235	8.23E+00	2.35E-08		9.38E-10	1.14E-06	1.17E-06	3.02%
16	4	Surface	Uranium-238	2.70E+02	9.92E-07		2.85E-08	7.87E-06	8.89E-06	23.02%
16	4	Surface	**Totals**		**1.67E-06**	**2.64E-06**	**5.90E-08**	**3.43E-05**	**3.86E-05**	
16	4	Surface	**Percent**		**4.31%**	**6.83%**	**0.15%**	**88.70%**		
19	1	Surface	Beryllium	1.10E+00	4.63E-08	4.35E-06	5.83E-11		4.39E-06	46.96%
19	1	Surface	Cadmium	1.20E+00	4.46E-09	1.68E-08	4.77E-11		2.13E-08	0.23%
19	1	Surface	Total PAH	5.23E+00	3.73E-07	4.56E-06	7.56E-09		4.94E-06	52.81%
19	1	Surface	**Totals**		**4.24E-07**	**8.93E-06**	**7.67E-09**		**9.36E-06**	
19	1	Surface	**Percent**		**4.53%**	**95.39%**	**0.08%**			
26	1	Surface	Arsenic	1.29E+01	1.89E-07	5.33E-07	1.23E-09		7.23E-07	10.06%
26	1	Surface	Beryllium	6.69E-01	2.81E-08	2.64E-06	3.55E-11		2.67E-06	37.16%
26	1	Surface	Cadmium	1.99E+00	7.41E-09	2.79E-08	7.93E-11		3.54E-08	0.49%
26	1	Surface	Cesium-137	3.16E+00	2.40E-09		4.25E-13	2.06E-06	2.06E-06	28.60%
26	1	Surface	Chromium	1.90E+01			3.53E-08		3.53E-08	0.49%
26	1	Surface	Cobalt-60	1.93E-03	1.36E-12		7.80E-16	6.12E-09	6.12E-09	0.09%
26	1	Surface	Neptunium-237	2.61E-01	7.40E-10		5.22E-11	5.31E-08	5.39E-08	0.75%
26	1	Surface	Nickel	1.76E+01			1.01E-10		1.01E-10	0.00%
26	1	Surface	PCB, Total	9.33E-01	1.83E-08	2.40E-07	1.99E-08		2.78E-07	3.87%
26	1	Surface	Plutonium-239/240	4.04E+00	1.95E-08		1.52E-09	2.06E-10	2.12E-08	0.29%
26	1	Surface	Thorium-230	3.82E+00	1.35E-08		1.23E-09	7.99E-10	1.55E-08	0.22%
26	1	Surface	Total PAH	5.00E-02	3.57E-09	4.36E-08	7.23E-11		4.73E-08	0.66%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
26	1	Surface	Uranium-234	4.67E+00	1.29E-08		6.00E-10	3.01E-10	1.38E-08	0.19%
26	1	Surface	Uranium-235	6.41E-01	1.83E-09		7.31E-11	8.90E-08	9.09E-08	1.26%
26	1	Surface	Uranium-238	3.47E+01	1.27E-07		3.66E-09	1.01E-06	1.14E-06	15.87%
26	1	Surface	**Totals**		**4.25E-07**	**3.49E-06**	**6.38E-08**	**3.22E-06**	**7.19E-06**	
26	1	Surface	**Percent**		**5.90%**	**48.51%**	**0.89%**	**44.70%**		
26	2	Surface	Arsenic	4.72E+01	6.93E-07	1.95E-06	4.50E-09		2.65E-06	5.50%
26	2	Surface	Beryllium	9.69E+00	4.08E-07	3.83E-05	5.14E-10		3.87E-05	80.28%
26	2	Surface	Cadmium	2.38E+00	8.85E-09	3.33E-08	9.47E-11		4.22E-08	0.09%
26	2	Surface	Cesium-137	5.92E+00	4.49E-09		7.96E-13	3.85E-06	3.85E-06	7.98%
26	2	Surface	Chromium	3.90E+01			7.24E-08		7.24E-08	0.15%
26	2	Surface	Cobalt	5.20E+01			1.03E-08		1.03E-08	0.02%
26	2	Surface	Neptunium-237	7.89E-01	2.24E-09		1.58E-10	1.61E-07	1.63E-07	0.34%
26	2	Surface	Nickel	1.13E+02			6.50E-10		6.50E-10	0.00%
26	2	Surface	PCB, Total	2.23E+00	4.36E-08	5.74E-07	4.74E-08		6.65E-07	1.38%
26	2	Surface	Thorium-230	1.51E+01	5.35E-08		4.87E-09	3.17E-09	6.15E-08	0.13%
26	2	Surface	Uranium-234	1.91E+01	5.27E-08		2.45E-09	1.23E-09	5.64E-08	0.12%
26	2	Surface	Uranium-235	1.71E+00	4.87E-09		1.95E-10	2.37E-07	2.42E-07	0.50%
26	2	Surface	Uranium-238	5.14E+01	1.89E-07		5.43E-09	1.50E-06	1.69E-06	3.51%
26	2	Surface	**Totals**		**1.46E-06**	**4.09E-05**	**1.49E-07**	**5.75E-06**	**4.82E-05**	
26	2	Surface	**Percent**		**3.03%**	**84.75%**	**0.31%**	**11.92%**		
26	3	Surface	Arsenic	5.09E+01	7.47E-07	2.11E-06	4.85E-09		2.86E-06	16.09%
26	3	Surface	Beryllium	2.54E+00	1.07E-07	1.00E-05	1.34E-10		1.01E-05	57.02%
26	3	Surface	Cadmium	2.34E+00	8.70E-09	3.27E-08	9.31E-11		4.15E-08	0.23%
26	3	Surface	Cesium-137	7.48E-01	5.67E-10		1.00E-13	4.86E-07	4.86E-07	2.74%
26	3	Surface	Chromium	3.25E+01			6.04E-08		6.04E-08	0.34%
26	3	Surface	Cobalt	1.21E+01			2.41E-09		2.41E-09	0.01%
26	3	Surface	Naphthalene	1.32E+00			3.31E-08		3.31E-08	0.19%
26	3	Surface	Neptunium-237	7.53E-01	2.13E-09		1.50E-10	1.53E-07	1.56E-07	0.88%
26	3	Surface	Nickel	2.97E+01			1.71E-10		1.71E-10	0.00%
26	3	Surface	PCB, Total	2.52E+00	4.93E-08	6.48E-07	5.36E-08		7.51E-07	4.23%
26	3	Surface	Technetium-99	6.48E+01	8.68E-09		1.03E-11	1.35E-09	1.00E-08	0.06%
26	3	Surface	Thorium-230	7.10E+00	2.51E-08		2.28E-09	1.49E-09	2.89E-08	0.16%
26	3	Surface	Total PAH	1.19E+00	8.49E-08	1.04E-06	1.72E-09		1.12E-06	6.33%
26	3	Surface	Uranium-234	4.63E+01	1.28E-07		5.96E-09	2.99E-09	1.37E-07	0.77%
26	3	Surface	Uranium-235	1.69E+00	4.82E-09		1.93E-10	2.35E-07	2.40E-07	1.35%
26	3	Surface	Uranium-238	5.19E+01	1.91E-07		5.47E-09	1.51E-06	1.71E-06	9.61%
26	3	Surface	**Totals**		**1.36E-06**	**1.38E-05**	**1.70E-07**	**2.39E-06**	**1.78E-05**	
26	3	Surface	**Percent**		**7.64%**	**77.94%**	**0.96%**	**13.46%**		
26	4	Surface	Americium-241	1.27E+00	4.83E-09		4.04E-10	8.98E-09	1.42E-08	0.07%
26	4	Surface	Beryllium	6.91E-01	2.91E-08	2.73E-06	3.66E-11		2.76E-06	13.35%
26	4	Surface	Cadmium	1.99E+00	7.40E-09	2.78E-08	7.92E-11		3.53E-08	0.17%
26	4	Surface	Cesium-137	6.38E-01	4.83E-10		8.57E-14	4.14E-07	4.15E-07	2.01%
26	4	Surface	Chromium	8.57E+01			1.59E-07		1.59E-07	0.77%
26	4	Surface	Cobalt-60	1.21E-03	8.53E-13		4.89E-16	3.84E-09	3.84E-09	0.02%
26	4	Surface	Neptunium-237	1.36E+01	3.85E-08		2.71E-09	2.76E-06	2.80E-06	13.56%
26	4	Surface	Nickel	7.54E+01			4.33E-10		4.33E-10	0.00%
26	4	Surface	PCB, Total	5.54E-01	1.08E-08	1.43E-07	1.18E-08		1.65E-07	0.80%
26	4	Surface	Plutonium-239/240	5.00E+00	2.42E-08		1.88E-09	2.56E-10	2.63E-08	0.13%
26	4	Surface	Technetium-99	5.97E+02	8.01E-08		9.51E-11	1.24E-08	9.26E-08	0.45%
26	4	Surface	Thorium-230	3.26E+01	1.15E-07		1.05E-08	6.83E-09	1.33E-07	0.64%
26	4	Surface	Total PAH	2.83E-02	2.02E-09	2.47E-08	4.10E-11		2.68E-08	0.13%
26	4	Surface	Uranium-234	1.54E+02	4.27E-07		1.99E-08	9.95E-09	4.57E-07	2.21%
26	4	Surface	Uranium-235	1.08E+01	3.08E-08		1.23E-09	1.50E-06	1.53E-06	7.41%
26	4	Surface	Uranium-238	3.66E+02	1.34E-06		3.86E-08	1.07E-05	1.20E-05	58.29%
26	4	Surface	**Totals**		**2.12E-06**	**2.93E-06**	**2.47E-07**	**1.54E-05**	**2.07E-05**	
26	4	Surface	**Percent**		**10.23%**	**14.16%**	**1.19%**	**74.42%**		
47	1	Surface	Arsenic	4.52E+01	6.63E-07	1.87E-06	4.31E-09		2.54E-06	4.41%
47	1	Surface	Beryllium	7.00E-01	2.95E-08	2.77E-06	3.71E-11		2.80E-06	4.86%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
47	1	Surface	Cadmium	4.25E+00	1.58E-08	5.94E-08	1.69E-10		7.54E-08	0.13%
47	1	Surface	Chromium	5.39E+01			1.00E-07		1.00E-07	0.17%
47	1	Surface	Cobalt	1.43E+01			2.84E-09		2.84E-09	0.00%
47	1	Surface	Naphthalene	1.90E+00			4.76E-08		4.76E-08	0.08%
47	1	Surface	Neptunium-237	1.15E-01	3.26E-10		2.30E-11	2.34E-08	2.38E-08	0.04%
47	1	Surface	Nickel	8.25E+01			4.74E-10		4.74E-10	0.00%
47	1	Surface	PCB, Total	9.60E-01	1.88E-08	2.47E-07	2.04E-08		2.86E-07	0.50%
47	1	Surface	Plutonium-239/240	4.11E+00	1.99E-08		1.55E-09	2.10E-10	2.16E-08	0.04%
47	1	Surface	Thorium-230	4.11E+01	1.45E-07		1.32E-08	8.61E-09	1.67E-07	0.29%
47	1	Surface	Total PAH	5.41E+01	3.86E-06	4.72E-05	7.82E-08		5.11E-05	88.86%
47	1	Surface	Uranium-234	6.85E+00	1.89E-08		8.82E-10	4.41E-10	2.03E-08	0.04%
47	1	Surface	Uranium-235	5.00E-01	1.43E-09		5.70E-11	6.94E-08	7.09E-08	0.12%
47	1	Surface	Uranium-238	7.93E+00	2.91E-08		8.37E-10	2.31E-07	2.61E-07	0.45%
47	1	Surface	**Totals**		**4.80E-06**	**5.21E-05**	**2.71E-07**	**3.33E-07**	**5.76E-05**	
47	1	Surface	**Percent**		**8.35%**	**90.60%**	**0.47%**	**0.58%**		
74	1	Surface	PCB, Total	2.97E+00	5.82E-08	7.66E-07	6.33E-08		8.88E-07	17.18%
74	1	Surface	Total PAH	3.16E+00	2.26E-07	2.76E-06	4.57E-09		2.99E-06	57.86%
74	1	Surface	Uranium-234	7.55E+00	2.09E-08		9.72E-10	4.87E-10	2.23E-08	0.43%
74	1	Surface	Uranium-238	3.85E+01	1.41E-07		4.06E-09	1.12E-06	1.27E-06	24.53%
74	1	Surface	**Totals**		**4.46E-07**	**3.53E-06**	**7.29E-08**	**1.12E-06**	**5.17E-06**	
74	1	Surface	**Percent**		**8.64%**	**68.22%**	**1.41%**	**21.73%**		
75	1	Surface	Cadmium	1.10E+00	4.09E-09	1.54E-08	4.37E-11		1.95E-08	4.53%
75	1	Surface	Chromium	7.17E+01			1.33E-07		1.33E-07	30.88%
75	1	Surface	Nickel	8.87E+01			5.10E-10		5.10E-10	0.12%
75	1	Surface	PCB, Total	2.30E-01	4.50E-09	5.92E-08	4.90E-09		6.86E-08	15.92%
75	1	Surface	Total PAH	2.21E-01	1.58E-08	1.93E-07	3.20E-10		2.09E-07	48.56%
75	1	Surface	**Totals**		**2.44E-08**	**2.68E-07**	**1.39E-07**		**4.31E-07**	
75	1	Surface	**Percent**		**5.66%**	**62.13%**	**32.21%**			
76	1	Surface	PCB, Total	2.60E-01	5.09E-09	6.70E-08	5.53E-09		7.76E-08	4.34%
76	1	Surface	Total PAH	1.76E+00	1.26E-07	1.53E-06	2.54E-09		1.66E-06	92.99%
76	1	Surface	Uranium-238	1.45E+00	5.33E-09		1.53E-10	4.23E-08	4.78E-08	2.67%
76	1	Surface	**Totals**		**1.36E-07**	**1.60E-06**	**8.23E-09**	**4.23E-08**	**1.79E-06**	
76	1	Surface	**Percent**		**7.61%**	**89.57%**	**0.46%**	**2.36%**		
78	1	Surface	Cadmium	2.36E+00	8.77E-09	3.30E-08	9.39E-11		4.19E-08	0.10%
78	1	Surface	Chromium	3.75E+01			6.96E-08		6.96E-08	0.17%
78	1	Surface	Cobalt-60	5.91E-03	4.17E-12		2.39E-15	1.87E-08	1.87E-08	0.05%
78	1	Surface	Naphthalene	1.60E+01			4.01E-07		4.01E-07	0.97%
78	1	Surface	Nickel	2.15E+01			1.24E-10		1.24E-10	0.00%
78	1	Surface	PCB, Total	1.20E+01	2.35E-07	3.09E-06	2.55E-07		3.58E-06	8.67%
78	1	Surface	Total PAH	3.91E+01	2.79E-06	3.41E-05	5.66E-08		3.70E-05	89.54%
78	1	Surface	Uranium-235	2.64E-01	7.53E-10		3.01E-11	3.67E-08	3.74E-08	0.09%
78	1	Surface	Uranium-238	5.29E+00	1.94E-08		5.58E-10	1.54E-07	1.74E-07	0.42%
78	1	Surface	**Totals**		**3.06E-06**	**3.73E-05**	**7.83E-07**	**2.10E-07**	**4.13E-05**	
78	1	Surface	**Percent**		**7.40%**	**90.20%**	**1.90%**	**0.51%**		
80	1	Surface	Americium-241	6.40E+00	2.43E-08		2.03E-09	4.52E-08	7.15E-08	0.09%
80	1	Surface	Beryllium	7.80E-01	3.28E-08	3.08E-06	4.14E-11		3.12E-06	4.08%
80	1	Surface	Chromium	1.65E+02			3.06E-07		3.06E-07	0.40%
80	1	Surface	Neptunium-237	5.05E-01	1.43E-09		1.01E-10	1.03E-07	1.04E-07	0.14%
80	1	Surface	PCB, Total	1.46E+01	2.86E-07	3.77E-06	3.11E-07		4.36E-06	5.72%
80	1	Surface	Thorium-230	4.40E+00	1.56E-08		1.42E-09	9.21E-10	1.79E-08	0.02%
80	1	Surface	Total PAH	1.42E-01	1.01E-08	1.24E-07	2.05E-10		1.34E-07	0.18%
80	1	Surface	Uranium-234	2.29E+02	6.33E-07		2.95E-08	1.48E-08	6.77E-07	0.89%
80	1	Surface	Uranium-235	3.00E+01	8.56E-08		3.42E-09	4.17E-06	4.25E-06	5.58%
80	1	Surface	Uranium-238	1.92E+03	7.06E-06		2.03E-07	5.60E-05	6.33E-05	82.90%
80	1	Surface	**Totals**		**8.15E-06**	**6.97E-06**	**8.57E-07**	**6.03E-05**	**7.63E-05**	
80	1	Surface	**Percent**		**10.68%**	**9.14%**	**1.12%**	**79.06%**		
81	1	Surface	Arsenic	1.03E+01	1.50E-07	4.24E-07	9.77E-10		5.76E-07	1.11%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
81	1	Surface	Beryllium	7.57E-01	3.19E-08	2.99E-06	4.01E-11		3.02E-06	5.81%
81	1	Surface	Chromium	8.62E+01			1.60E-07		1.60E-07	0.31%
81	1	Surface	Nickel	7.29E+01			4.19E-10		4.19E-10	0.00%
81	1	Surface	PCB, Total	1.60E+02	3.13E-06	4.12E-05	3.40E-06		4.77E-05	91.62%
81	1	Surface	Total PAH	5.53E-01	3.95E-08	4.83E-07	8.00E-10		5.23E-07	1.00%
81	1	Surface	Uranium-238	2.29E+00	8.40E-09		2.41E-10	6.66E-08	7.52E-08	0.14%
81	1	Surface	**Totals**		**3.36E-06**	**4.51E-05**	**3.56E-06**	**6.66E-08**	**5.20E-05**	
81	1	Surface	**Percent**		**6.45%**	**86.57%**	**6.85%**	**0.13%**		
99	1	Surface	Chromium	5.51E+01			1.02E-07		1.02E-07	59.62%
99	1	Surface	Cobalt-60	1.19E-02	8.39E-12		4.81E-15	3.77E-08	3.77E-08	22.00%
99	1	Surface	Nickel	7.02E+01			4.03E-10		4.03E-10	0.24%
99	1	Surface	Uranium-238	9.45E-01	3.47E-09		9.98E-11	2.75E-08	3.11E-08	18.14%
99	1	Surface	**Totals**		**3.48E-09**		**1.03E-07**	**6.53E-08**	**1.72E-07**	
99	1	Surface	**Percent**		**2.03%**		**59.91%**	**38.06%**		
138	1	Surface	Arsenic	1.06E+01	1.56E-07	4.40E-07	1.01E-09		5.96E-07	57.67%
138	1	Surface	Cadmium	5.42E+00	2.02E-08	7.58E-08	2.16E-10		9.61E-08	9.30%
138	1	Surface	Chromium	5.39E+01			9.99E-08		9.99E-08	9.66%
138	1	Surface	Nickel	7.04E+01			4.04E-10		4.04E-10	0.04%
138	1	Surface	PCB, Total	5.00E-01	9.78E-09	1.29E-07	1.06E-08		1.49E-07	14.43%
138	1	Surface	Total PAH	9.74E-02	6.96E-09	8.50E-08	1.41E-10		9.21E-08	8.91%
138	1	Surface	**Totals**		**1.93E-07**	**7.29E-07**	**1.12E-07**		**1.03E-06**	
138	1	Surface	**Percent**		**18.64%**	**70.50%**	**10.86%**			
138	2	Surface	Nickel	7.99E+01			4.59E-10		4.59E-10	0.71%
138	2	Surface	PCB, Total	9.20E-02	1.80E-09	2.37E-08	1.96E-09		2.75E-08	42.74%
138	2	Surface	Total PAH	3.84E-02	2.74E-09	3.35E-08	5.56E-11		3.63E-08	56.54%
138	2	Surface	**Totals**		**4.54E-09**	**5.72E-08**	**2.47E-09**		**6.42E-08**	
138	2	Surface	**Percent**		**7.07%**	**89.08%**	**3.85%**			
153	1	Surface	PCB, Total	5.09E-01	9.96E-09	1.31E-07	1.08E-08		1.52E-07	64.88%
153	1	Surface	Total PAH	8.69E-02	6.21E-09	7.59E-08	1.26E-10		8.22E-08	35.12%
153	1	Surface	**Totals**		**1.62E-08**	**2.07E-07**	**1.10E-08**		**2.34E-07**	
153	1	Surface	**Percent**		**6.91%**	**88.41%**	**4.68%**			
154	1	Surface	Arsenic	1.52E+01	2.23E-07	6.28E-07	1.45E-09		8.52E-07	28.67%
154	1	Surface	Chromium	4.28E+01			7.94E-08		7.94E-08	2.67%
154	1	Surface	Nickel	9.89E+01			5.68E-10		5.68E-10	0.02%
154	1	Surface	PCB, Total	3.20E+00	6.26E-08	8.24E-07	6.81E-08		9.55E-07	32.13%
154	1	Surface	Total PAH	1.04E+00	7.43E-08	9.08E-07	1.51E-09		9.84E-07	33.11%
154	1	Surface	Uranium-238	3.06E+00	1.12E-08		3.23E-10	8.92E-08	1.01E-07	3.39%
154	1	Surface	**Totals**		**3.71E-07**	**2.36E-06**	**1.51E-07**	**8.92E-08**	**2.97E-06**	
154	1	Surface	**Percent**		**12.48%**	**79.43%**	**5.09%**	**3.00%**		
154	2	Surface	PCB, Total	4.00E-01	7.83E-09	1.03E-07	8.51E-09		1.19E-07	100.00%
154	2	Surface	**Totals**		**7.83E-09**	**1.03E-07**	**8.51E-09**		**1.19E-07**	
154	2	Surface	**Percent**		**6.56%**	**86.31%**	**7.13%**			
155	1	Surface	Chromium	3.47E+01			6.44E-08		6.44E-08	2.28%
155	1	Surface	Neptunium-237	1.03E-01	2.92E-10		2.06E-11	2.10E-08	2.13E-08	0.75%
155	1	Surface	Nickel	7.65E+01			4.40E-10		4.40E-10	0.02%
155	1	Surface	PCB, Total	9.20E+00	1.80E-07	2.37E-06	1.96E-07		2.74E-06	96.96%
155	1	Surface	**Totals**		**1.80E-07**	**2.37E-06**	**2.61E-07**	**2.10E-08**	**2.83E-06**	
155	1	Surface	**Percent**		**6.37%**	**83.68%**	**9.21%**	**0.74%**		
156	1	Surface	Chromium	4.90E+01			9.10E-08		9.10E-08	27.48%
156	1	Surface	Nickel	6.16E+01			3.54E-10		3.54E-10	0.11%
156	1	Surface	PCB, Total	3.00E-01	5.87E-09	7.73E-08	6.39E-09		8.95E-08	27.04%
156	1	Surface	Total PAH	8.26E-02	5.90E-09	7.21E-08	1.20E-10		7.81E-08	23.59%
156	1	Surface	Uranium-238	2.19E+00	8.05E-09		2.31E-10	6.38E-08	7.21E-08	21.78%
156	1	Surface	**Totals**		**1.98E-08**	**1.49E-07**	**9.81E-08**	**6.38E-08**	**3.31E-07**	
156	1	Surface	**Percent**		**5.99%**	**45.11%**	**29.62%**	**19.28%**		
158	1	Surface	Arsenic	1.01E+01	1.49E-07	4.19E-07	9.65E-10		5.68E-07	48.10%
158	1	Surface	Chromium	6.07E+01			1.13E-07		1.13E-07	9.54%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
158	1	Surface	Cobalt	1.62E+01			3.23E-09		3.23E-09	0.27%
158	1	Surface	Nickel	7.28E+01			4.18E-10		4.18E-10	0.04%
158	1	Surface	Total PAH	3.69E-01	2.64E-08	3.22E-07	5.34E-10		3.49E-07	29.53%
158	1	Surface	Uranium-235	1.63E-01	4.65E-10		1.86E-11	2.26E-08	2.31E-08	1.96%
158	1	Surface	Uranium-238	3.79E+00	1.39E-08		4.00E-10	1.10E-07	1.25E-07	10.56%
158	1	Surface	**Totals**		**1.89E-07**	**7.41E-07**	**1.18E-07**	**1.33E-07**	**1.18E-06**	
158	1	Surface	**Percent**		**16.02%**	**62.71%**	**10.01%**	**11.27%**		
160	1	Surface	Total PAH	5.29E-02	3.78E-09	4.62E-08	7.66E-11		5.00E-08	100.00%
160	1	Surface	**Totals**		**3.78E-09**	**4.62E-08**	**7.66E-11**		**5.00E-08**	
160	1	Surface	**Percent**		**7.55%**	**92.29%**	**0.15%**			
163	1	Surface	Chromium	4.94E+01			9.18E-08		9.18E-08	37.31%
163	1	Surface	Total PAH	1.63E-01	1.16E-08	1.42E-07	2.36E-10		1.54E-07	62.69%
163	1	Surface	**Totals**		**1.16E-08**	**1.42E-07**	**9.20E-08**		**2.46E-07**	
163	1	Surface	**Percent**		**4.73%**	**57.86%**	**37.41%**			
165	1	Surface	Arsenic	6.35E+01	9.32E-07	2.63E-06	6.05E-09		3.57E-06	22.88%
165	1	Surface	Beryllium	6.82E-01	2.87E-08	2.70E-06	3.62E-11		2.72E-06	17.48%
165	1	Surface	Cesium-137	3.47E+00	2.63E-09		4.66E-13	2.25E-06	2.26E-06	14.48%
165	1	Surface	Chromium	3.74E+01			6.94E-08		6.94E-08	0.44%
165	1	Surface	Naphthalene	1.61E+00			4.03E-08		4.03E-08	0.26%
165	1	Surface	Neptunium-237	4.26E-01	1.21E-09		8.51E-11	8.67E-08	8.80E-08	0.56%
165	1	Surface	Nickel	3.47E+01			1.99E-10		1.99E-10	0.00%
165	1	Surface	PCB, Total	8.27E+00	1.62E-07	2.13E-06	1.76E-07		2.47E-06	15.82%
165	1	Surface	Plutonium-239/240	2.81E+00	1.35E-08		1.05E-09	1.43E-10	1.47E-08	0.09%
165	1	Surface	Thorium-230	6.02E+00	2.13E-08		1.94E-09	1.26E-09	2.45E-08	0.16%
165	1	Surface	Total PAH	1.87E+00	1.33E-07	1.63E-06	2.70E-09		1.77E-06	11.33%
165	1	Surface	Uranium-234	5.76E+01	1.59E-07		7.41E-09	3.71E-09	1.70E-07	1.09%
165	1	Surface	Uranium-235	2.05E+00	5.83E-09		2.33E-10	2.84E-07	2.90E-07	1.86%
165	1	Surface	Uranium-238	6.41E+01	2.36E-07		6.77E-09	1.87E-06	2.11E-06	13.54%
165	1	Surface	**Totals**		**1.70E-06**	**9.08E-06**	**3.12E-07**	**4.50E-06**	**1.56E-05**	
165	1	Surface	**Percent**		**10.87%**	**58.27%**	**2.00%**	**28.85%**		
169	1	Surface	Arsenic	2.03E+01	2.98E-07	8.40E-07	1.94E-09		1.14E-06	9.19%
169	1	Surface	Beryllium	8.00E-01	3.37E-08	3.16E-06	4.24E-11		3.20E-06	25.75%
169	1	Surface	Chromium	2.15E+02			3.99E-07		3.99E-07	3.21%
169	1	Surface	Nickel	5.49E+02			3.15E-09		3.15E-09	0.03%
169	1	Surface	PCB, Total	1.00E+01	1.96E-07	2.58E-06	2.13E-07		2.98E-06	24.04%
169	1	Surface	Total PAH	4.59E+00	3.28E-07	4.00E-06	6.64E-09		4.34E-06	34.94%
169	1	Surface	Uranium-234	6.55E+00	1.81E-08		8.43E-10	4.22E-10	1.94E-08	0.16%
169	1	Surface	Uranium-235	4.60E-01	1.31E-09		5.25E-11	6.39E-08	6.52E-08	0.53%
169	1	Surface	Uranium-238	8.12E+00	2.98E-08		8.57E-10	2.37E-07	2.67E-07	2.15%
169	1	Surface	**Totals**		**9.04E-07**	**1.06E-05**	**6.25E-07**	**3.01E-07**	**1.24E-05**	
169	1	Surface	**Percent**		**7.28%**	**85.25%**	**5.04%**	**2.43%**		
170	1	Surface	Neptunium-237	1.15E-01	3.26E-10		2.30E-11	2.34E-08	2.38E-08	32.04%
170	1	Surface	Uranium-238	1.53E+00	5.62E-09		1.62E-10	4.46E-08	5.04E-08	67.96%
170	1	Surface	**Totals**		**5.95E-09**		**1.84E-10**	**6.80E-08**	**7.41E-08**	
170	1	Surface	**Percent**		**8.02%**		**0.25%**	**91.73%**		
176	1	Surface	Arsenic	4.86E+01	7.13E-07	2.01E-06	4.63E-09		2.73E-06	97.15%
176	1	Surface	Chromium	4.27E+01			7.93E-08		7.93E-08	2.83%
176	1	Surface	Nickel	1.07E+02			6.15E-10		6.15E-10	0.02%
176	1	Surface	**Totals**		**7.13E-07**	**2.01E-06**	**8.46E-08**		**2.81E-06**	
176	1	Surface	**Percent**		**25.39%**	**71.60%**	**3.01%**			
180	1	Surface	Arsenic	7.48E+01	1.10E-06	3.10E-06	7.13E-09		4.20E-06	97.60%
180	1	Surface	Chromium	5.54E+01			1.03E-07		1.03E-07	2.39%
180	1	Surface	Nickel	8.77E+01			5.04E-10		5.04E-10	0.01%
180	1	Surface	**Totals**		**1.10E-06**	**3.10E-06**	**1.11E-07**		**4.30E-06**	
180	1	Surface	**Percent**		**25.51%**	**71.93%**	**2.57%**			
180	2	Surface	Arsenic	1.27E+01	1.86E-07	5.24E-07	1.21E-09		7.10E-07	80.67%
180	2	Surface	Chromium	4.46E+01			8.28E-08		8.28E-08	9.41%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
180	2	Surface	Nickel	8.42E+01			4.83E-10		4.83E-10	0.05%
180	2	Surface	Total PAH	9.19E-02	6.56E-09	8.02E-08	1.33E-10		8.69E-08	9.86%
180	2	Surface	**Totals**		**1.92E-07**	**6.04E-07**	**8.47E-08**		**8.81E-07**	
180	2	Surface	**Percent**		**21.83%**	**68.56%**	**9.61%**			
180	3	Surface	Arsenic	1.34E+01	1.96E-07	5.53E-07	1.27E-09		7.50E-07	89.55%
180	3	Surface	Chromium	4.69E+01			8.71E-08		8.71E-08	10.41%
180	3	Surface	Nickel	6.77E+01			3.89E-10		3.89E-10	0.05%
180	3	Surface	**Totals**		**1.96E-07**	**5.53E-07**	**8.88E-08**		**8.37E-07**	
180	3	Surface	**Percent**		**23.40%**	**65.99%**	**10.60%**			
180	4	Surface	Arsenic	1.15E+01	1.69E-07	4.77E-07	1.10E-09		6.48E-07	9.03%
180	4	Surface	Beryllium	1.60E+00	6.73E-08	6.33E-06	8.48E-11		6.39E-06	89.13%
180	4	Surface	Chromium	6.00E+01			1.11E-07		1.11E-07	1.55%
180	4	Surface	Nickel	6.46E+01			3.71E-10		3.71E-10	0.01%
180	4	Surface	Total PAH	2.15E-02	1.54E-09	1.88E-08	3.11E-11		2.03E-08	0.28%
180	4	Surface	**Totals**		**2.38E-07**	**6.82E-06**	**1.13E-07**		**7.17E-06**	
180	4	Surface	**Percent**		**3.32%**	**95.11%**	**1.58%**			
181	1	Surface	Chromium	2.29E+01			4.24E-08		4.24E-08	56.66%
181	1	Surface	Total PAH	3.43E-02	2.45E-09	2.99E-08	4.96E-11		3.24E-08	43.34%
181	1	Surface	**Totals**		**2.45E-09**	**2.99E-08**	**4.25E-08**		**7.48E-08**	
181	1	Surface	**Percent**		**3.27%**	**40.00%**	**56.73%**			
194	1	Surface	Chromium	3.87E+01			7.18E-08		7.18E-08	99.54%
194	1	Surface	Nickel	5.84E+01			3.36E-10		3.36E-10	0.46%
194	1	Surface	**Totals**				**7.22E-08**		**7.22E-08**	
194	1	Surface	**Percent**				**100.00%**			
194	2	Surface	Chromium	5.96E+01			1.11E-07		1.11E-07	70.29%
194	2	Surface	Uranium-238	1.42E+00	5.22E-09		1.50E-10	4.14E-08	4.68E-08	29.71%
194	2	Surface	**Totals**		**5.22E-09**		**1.11E-07**	**4.14E-08**	**1.57E-07**	
194	2	Surface	**Percent**		**3.32%**		**70.38%**	**26.30%**		
194	3	Surface	Arsenic	1.46E+01	2.15E-07	6.06E-07	1.40E-09		8.22E-07	84.38%
194	3	Surface	Chromium	3.90E+01			7.23E-08		7.23E-08	7.42%
194	3	Surface	Nickel	6.40E+01			3.68E-10		3.68E-10	0.04%
194	3	Surface	Total PAH	3.93E-02	2.81E-09	3.43E-08	5.69E-11		3.72E-08	3.81%
194	3	Surface	Uranium-238	1.28E+00	4.72E-09		1.36E-10	3.74E-08	4.23E-08	4.34%
194	3	Surface	**Totals**		**2.22E-07**	**6.40E-07**	**7.43E-08**	**3.74E-08**	**9.74E-07**	
194	3	Surface	**Percent**		**22.82%**	**65.71%**	**7.63%**	**3.84%**		
194	4	Surface	Chromium	4.84E+01			8.98E-08		8.98E-08	41.56%
194	4	Surface	Nickel	6.91E+01			3.97E-10		3.97E-10	0.18%
194	4	Surface	Total PAH	7.30E-02	5.21E-09	6.37E-08	1.06E-10		6.90E-08	31.91%
194	4	Surface	Uranium-238	1.73E+00	6.36E-09		1.83E-10	5.04E-08	5.70E-08	26.35%
194	4	Surface	**Totals**		**1.16E-08**	**6.37E-08**	**9.05E-08**	**5.04E-08**	**2.16E-07**	
194	4	Surface	**Percent**		**5.35%**	**29.45%**	**41.87%**	**23.32%**		
194	5	Surface	Chromium	4.58E+01			8.50E-08		8.50E-08	55.45%
194	5	Surface	Nickel	7.54E+01			4.33E-10		4.33E-10	0.28%
194	5	Surface	Total PAH	2.37E-02	1.69E-09	2.07E-08	3.43E-11		2.24E-08	14.62%
194	5	Surface	Uranium-238	1.38E+00	5.07E-09		1.46E-10	4.02E-08	4.54E-08	29.65%
194	5	Surface	**Totals**		**6.76E-09**	**2.07E-08**	**8.56E-08**	**4.02E-08**	**1.53E-07**	
194	5	Surface	**Percent**		**4.41%**	**13.49%**	**55.85%**	**26.24%**		
194	6	Surface	Chromium	3.70E+01			6.87E-08		6.87E-08	60.99%
194	6	Surface	Nickel	8.06E+01			4.63E-10		4.63E-10	0.41%
194	6	Surface	Uranium-238	1.32E+00	4.85E-09		1.39E-10	3.85E-08	4.35E-08	38.60%
194	6	Surface	**Totals**		**4.85E-09**		**6.93E-08**	**3.85E-08**	**1.13E-07**	
194	6	Surface	**Percent**		**4.31%**		**61.53%**	**34.17%**		
194	7	Surface	Chromium	5.32E+01			9.87E-08		9.87E-08	99.55%
194	7	Surface	Nickel	7.71E+01			4.43E-10		4.43E-10	0.45%
194	7	Surface	**Totals**				**9.92E-08**		**9.92E-08**	
194	7	Surface	**Percent**				**100.00%**			
194	8	Surface	Chromium	5.36E+01			9.94E-08		9.94E-08	16.47%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	8	Surface	Total PAH	4.85E-01	3.46E-08	4.23E-07	7.02E-10		4.59E-07	75.95%
194	8	Surface	Uranium-238	1.39E+00	5.11E-09		1.47E-10	4.05E-08	4.58E-08	7.58%
194	8	Surface	**Totals**		**3.98E-08**	**4.23E-07**	**1.00E-07**	**4.05E-08**	**6.04E-07**	
194	8	Surface	**Percent**		**6.58%**	**70.10%**	**16.61%**	**6.71%**		
194	9	Surface	Arsenic	1.14E+01	1.68E-07	4.73E-07	1.09E-09		6.41E-07	87.00%
194	9	Surface	Chromium	5.17E+01			9.59E-08		9.59E-08	13.00%
194	9	Surface	**Totals**		**1.68E-07**	**4.73E-07**	**9.69E-08**		**7.37E-07**	
194	9	Surface	**Percent**		**22.74%**	**64.11%**	**13.15%**			
194	10	Surface	Arsenic	1.22E+01	1.78E-07	5.03E-07	1.16E-09		6.83E-07	48.07%
194	10	Surface	Cesium-137	5.81E-01	4.40E-10		7.81E-14	3.77E-07	3.78E-07	26.59%
194	10	Surface	Chromium	3.63E+01			6.74E-08		6.74E-08	4.74%
194	10	Surface	Nickel	7.60E+01			4.37E-10		4.37E-10	0.03%
194	10	Surface	Total PAH	2.57E-01	1.84E-08	2.24E-07	3.72E-10		2.43E-07	17.12%
194	10	Surface	Uranium-238	1.49E+00	5.48E-09		1.57E-10	4.34E-08	4.91E-08	3.45%
194	10	Surface	**Totals**		**2.03E-07**	**7.28E-07**	**6.95E-08**	**4.21E-07**	**1.42E-06**	
194	10	Surface	**Percent**		**14.27%**	**51.22%**	**4.89%**	**29.62%**		
194	11	Surface	Chromium	3.27E+01			6.07E-08		6.07E-08	37.55%
194	11	Surface	Nickel	1.01E+02			5.78E-10		5.78E-10	0.36%
194	11	Surface	PCB, Total	8.40E-02	1.64E-09	2.16E-08	1.79E-09		2.51E-08	15.52%
194	11	Surface	Total PAH	7.95E-02	5.68E-09	6.94E-08	1.15E-10		7.52E-08	46.57%
194	11	Surface	**Totals**		**7.32E-09**	**9.10E-08**	**6.31E-08**		**1.62E-07**	
194	11	Surface	**Percent**		**4.53%**	**56.37%**	**39.09%**			
194	12	Surface	Chromium	6.34E+01			1.18E-07		1.18E-07	12.24%
194	12	Surface	Nickel	7.86E+01			4.52E-10		4.52E-10	0.05%
194	12	Surface	Total PAH	8.91E-01	6.37E-08	7.78E-07	1.29E-09		8.43E-07	87.72%
194	12	Surface	**Totals**		**6.37E-08**	**7.78E-07**	**1.19E-07**		**9.61E-07**	
194	12	Surface	**Percent**		**6.63%**	**80.96%**	**12.42%**			
194	13	Surface	Chromium	4.77E+01			8.84E-08		8.84E-08	50.49%
194	13	Surface	Nickel	6.03E+01			3.46E-10		3.46E-10	0.20%
194	13	Surface	Total PAH	9.13E-02	6.52E-09	7.97E-08	1.32E-10		8.64E-08	49.32%
194	13	Surface	**Totals**		**6.52E-09**	**7.97E-08**	**8.89E-08**		**1.75E-07**	
194	13	Surface	**Percent**		**3.72%**	**45.52%**	**50.76%**			
194	14	Surface	Chromium	5.21E+01			9.67E-08		9.67E-08	100.00%
194	14	Surface	**Totals**				**9.67E-08**		**9.67E-08**	
194	14	Surface	**Percent**				**100.00%**			
194	15	Surface	Chromium	5.33E+01			9.90E-08		9.90E-08	100.00%
194	15	Surface	**Totals**				**9.90E-08**		**9.90E-08**	
194	15	Surface	**Percent**				**100.00%**			
194	16	Surface	Arsenic	1.15E+01	1.69E-07	4.77E-07	1.10E-09		6.47E-07	15.32%
194	16	Surface	Beryllium	8.70E-01	3.66E-08	3.44E-06	4.61E-11		3.48E-06	82.33%
194	16	Surface	Chromium	5.32E+01			9.88E-08		9.88E-08	2.34%
194	16	Surface	Nickel	7.20E+01			4.14E-10		4.14E-10	0.01%
194	16	Surface	**Totals**		**2.06E-07**	**3.92E-06**	**1.00E-07**		**4.22E-06**	
194	16	Surface	**Percent**		**4.87%**	**92.75%**	**2.38%**			
194	17	Surface	Arsenic	1.16E+01	1.70E-07	4.78E-07	1.10E-09		6.49E-07	71.72%
194	17	Surface	Cadmium	1.10E+00	4.09E-09	1.54E-08	4.37E-11		1.95E-08	2.16%
194	17	Surface	Chromium	4.65E+01			8.63E-08		8.63E-08	9.54%
194	17	Surface	Total PAH	1.59E-01	1.13E-08	1.38E-07	2.30E-10		1.50E-07	16.59%
194	17	Surface	**Totals**		**1.85E-07**	**6.32E-07**	**8.76E-08**		**9.04E-07**	
194	17	Surface	**Percent**		**20.45%**	**69.86%**	**9.69%**			
194	18	Surface	Arsenic	1.06E+01	1.55E-07	4.37E-07	1.01E-09		5.94E-07	16.14%
194	18	Surface	Beryllium	7.40E-01	3.11E-08	2.93E-06	3.92E-11		2.96E-06	80.39%
194	18	Surface	Chromium	6.85E+01			1.27E-07		1.27E-07	3.46%
194	18	Surface	Nickel	5.78E+01			3.32E-10		3.32E-10	0.01%
194	18	Surface	**Totals**		**1.86E-07**	**3.36E-06**	**1.28E-07**		**3.68E-06**	
194	18	Surface	**Percent**		**5.07%**	**91.44%**	**3.49%**			
194	19	Surface	Arsenic	1.07E+01	1.57E-07	4.42E-07	1.02E-09		6.00E-07	86.95%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	19	Surface	Chromium	4.84E+01			8.97E-08		8.97E-08	13.00%
194	19	Surface	Nickel	5.84E+01			3.35E-10		3.35E-10	0.05%
194	19	Surface	**Totals**		**1.57E-07**	**4.42E-07**	**9.11E-08**		**6.90E-07**	
194	19	Surface	**Percent**		**22.72%**	**64.08%**	**13.19%**			
194	20	Surface	Arsenic	1.18E+01	1.74E-07	4.90E-07	1.13E-09		6.65E-07	12.81%
194	20	Surface	Beryllium	1.10E+00	4.63E-08	4.35E-06	5.83E-11		4.39E-06	84.66%
194	20	Surface	Chromium	5.24E+01			9.72E-08		9.72E-08	1.87%
194	20	Surface	Cobalt	2.11E+01			4.20E-09		4.20E-09	0.08%
194	20	Surface	Nickel	6.57E+01			3.77E-10		3.77E-10	0.01%
194	20	Surface	Total PAH	3.10E-02	2.21E-09	2.71E-08	4.49E-11		2.93E-08	0.56%
194	20	Surface	**Totals**		**2.22E-07**	**4.87E-06**	**1.03E-07**		**5.19E-06**	
194	20	Surface	**Percent**		**4.28%**	**93.73%**	**1.98%**			
194	21	Surface	Chromium	5.51E+01			1.02E-07		1.02E-07	99.61%
194	21	Surface	Nickel	7.01E+01			4.03E-10		4.03E-10	0.39%
194	21	Surface	**Totals**				**1.03E-07**		**1.03E-07**	
194	21	Surface	**Percent**				**100.00%**			
194	22	Surface	Chromium	4.90E+01			9.09E-08		9.09E-08	2.71%
194	22	Surface	PCB, Total	1.09E+01	2.14E-07	2.81E-06	2.32E-07		3.26E-06	97.29%
194	22	Surface	**Totals**		**2.14E-07**	**2.81E-06**	**3.23E-07**		**3.35E-06**	
194	22	Surface	**Percent**		**6.38%**	**83.97%**	**9.65%**			
194	23	Surface	Arsenic	1.16E+01	1.70E-07	4.78E-07	1.10E-09		6.49E-07	84.07%
194	23	Surface	Chromium	6.60E+01			1.22E-07		1.22E-07	15.87%
194	23	Surface	Nickel	8.77E+01			5.04E-10		5.04E-10	0.07%
194	23	Surface	**Totals**		**1.70E-07**	**4.78E-07**	**1.24E-07**		**7.72E-07**	
194	23	Surface	**Percent**		**21.97%**	**61.95%**	**16.08%**			
194	24	Surface	Chromium	5.02E+01			9.32E-08		9.32E-08	80.92%
194	24	Surface	Nickel	7.08E+01			4.07E-10		4.07E-10	0.35%
194	24	Surface	Total PAH	2.28E-02	1.63E-09	1.99E-08	3.30E-11		2.16E-08	18.72%
194	24	Surface	**Totals**		**1.63E-09**	**1.99E-08**	**9.36E-08**		**1.15E-07**	
194	24	Surface	**Percent**		**1.41%**	**17.28%**	**81.30%**			
194	25	Surface	Chromium	6.13E+01			1.14E-07		1.14E-07	85.14%
194	25	Surface	Nickel	6.33E+01			3.64E-10		3.64E-10	0.27%
194	25	Surface	Total PAH	2.06E-02	1.47E-09	1.80E-08	2.98E-11		1.95E-08	14.59%
194	25	Surface	**Totals**		**1.47E-09**	**1.80E-08**	**1.14E-07**		**1.34E-07**	
194	25	Surface	**Percent**		**1.10%**	**13.47%**	**85.43%**			
194	26	Surface	Beryllium	7.00E-01	2.95E-08	2.77E-06	3.71E-11		2.80E-06	97.30%
194	26	Surface	Chromium	4.18E+01			7.76E-08		7.76E-08	2.70%
194	26	Surface	**Totals**		**2.95E-08**	**2.77E-06**	**7.77E-08**		**2.87E-06**	
194	26	Surface	**Percent**		**1.02%**	**96.27%**	**2.70%**			
194	27	Surface	Chromium	5.22E+01			9.68E-08		9.68E-08	99.61%
194	27	Surface	Nickel	6.55E+01			3.76E-10		3.76E-10	0.39%
194	27	Surface	**Totals**				**9.72E-08**		**9.72E-08**	
194	27	Surface	**Percent**				**100.00%**			
194	28	Surface	Arsenic	1.20E+01	1.77E-07	4.98E-07	1.15E-09		6.76E-07	18.64%
194	28	Surface	Beryllium	7.10E-01	2.99E-08	2.81E-06	3.76E-11		2.84E-06	78.25%
194	28	Surface	Chromium	6.07E+01			1.13E-07		1.13E-07	3.11%
194	28	Surface	Nickel	6.95E+01			3.99E-10		3.99E-10	0.01%
194	28	Surface	**Totals**		**2.06E-07**	**3.30E-06**	**1.14E-07**		**3.63E-06**	
194	28	Surface	**Percent**		**5.69%**	**91.15%**	**3.15%**			
194	29	Surface	Chromium	5.06E+01			9.38E-08		9.38E-08	99.60%
194	29	Surface	Nickel	6.51E+01			3.74E-10		3.74E-10	0.40%
194	29	Surface	**Totals**				**9.42E-08**		**9.42E-08**	
194	29	Surface	**Percent**				**100.00%**			
194	30	Surface	Chromium	5.66E+01			1.05E-07		1.05E-07	99.62%
194	30	Surface	Nickel	6.99E+01			4.01E-10		4.01E-10	0.38%
194	30	Surface	**Totals**				**1.05E-07**		**1.05E-07**	
194	30	Surface	**Percent**				**100.00%**			

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	31	Surface	Cesium-137	5.70E-01	4.32E-10		7.66E-14	3.70E-07	3.71E-07	86.74%
194	31	Surface	Uranium-238	1.72E+00	6.32E-09		1.82E-10	5.01E-08	5.66E-08	13.26%
194	31	Surface	**Totals**		**6.75E-09**		**1.82E-10**	**4.20E-07**	**4.27E-07**	
194	31	Surface	**Percent**		**1.58%**		**0.04%**	**98.38%**		
195	1	Surface	Chromium	6.33E+01			1.17E-07		1.17E-07	99.66%
195	1	Surface	Nickel	7.02E+01			4.03E-10		4.03E-10	0.34%
195	1	Surface	**Totals**				**1.18E-07**		**1.18E-07**	
195	1	Surface	**Percent**				**100.00%**			
195	2	Surface	Chromium	4.52E+01			8.39E-08		8.39E-08	76.80%
195	2	Surface	Total PAH	2.68E-02	1.91E-09	2.34E-08	3.88E-11		2.53E-08	23.20%
195	2	Surface	**Totals**		**1.91E-09**	**2.34E-08**	**8.39E-08**		**1.09E-07**	
195	2	Surface	**Percent**		**1.75%**	**21.42%**	**76.83%**			
195	3	Surface	Chromium	5.03E+01			9.34E-08		9.34E-08	70.70%
195	3	Surface	Nickel	5.22E+01			3.00E-10		3.00E-10	0.23%
195	3	Surface	Total PAH	4.06E-02	2.90E-09	3.54E-08	5.87E-11		3.84E-08	29.08%
195	3	Surface	**Totals**		**2.90E-09**	**3.54E-08**	**9.37E-08**		**1.32E-07**	
195	3	Surface	**Percent**		**2.20%**	**26.84%**	**70.97%**			
195	4	Surface	Chromium	5.29E+01			9.82E-08		9.82E-08	99.64%
195	4	Surface	Nickel	6.23E+01			3.58E-10		3.58E-10	0.36%
195	4	Surface	**Totals**				**9.85E-08**		**9.85E-08**	
195	4	Surface	**Percent**				**100.00%**			
195	5	Surface	Chromium	5.74E+01			1.07E-07		1.07E-07	82.14%
195	5	Surface	Nickel	8.11E+01			4.66E-10		4.66E-10	0.36%
195	5	Surface	Total PAH	2.40E-02	1.71E-09	2.09E-08	3.47E-11		2.27E-08	17.50%
195	5	Surface	**Totals**		**1.71E-09**	**2.09E-08**	**1.07E-07**		**1.30E-07**	
195	5	Surface	**Percent**		**1.32%**	**16.15%**	**82.53%**			
195	6	Surface	Chromium	4.45E+01			8.27E-08		8.27E-08	26.04%
195	6	Surface	Nickel	8.71E+01			5.00E-10		5.00E-10	0.16%
195	6	Surface	Total PAH	2.48E-01	1.77E-08	2.16E-07	3.58E-10		2.34E-07	73.80%
195	6	Surface	**Totals**		**1.77E-08**	**2.16E-07**	**8.35E-08**		**3.17E-07**	
195	6	Surface	**Percent**		**5.57%**	**68.11%**	**26.31%**			
195	7	Surface	Chromium	4.93E+01			9.14E-08		9.14E-08	100.00%
195	7	Surface	**Totals**				**9.14E-08**		**9.14E-08**	
195	7	Surface	**Percent**				**100.00%**			
195	8	Surface	Arsenic	1.16E+01	1.70E-07	4.78E-07	1.10E-09		6.49E-07	16.48%
195	8	Surface	Beryllium	7.40E-01	3.11E-08	2.93E-06	3.92E-11		2.96E-06	75.04%
195	8	Surface	Chromium	6.79E+01			1.26E-07		1.26E-07	3.20%
195	8	Surface	Cobalt	1.82E+01			3.62E-09		3.62E-09	0.09%
195	8	Surface	Nickel	7.01E+01			4.03E-10		4.03E-10	0.01%
195	8	Surface	Total PAH	2.16E-01	1.54E-08	1.88E-07	3.12E-10		2.04E-07	5.18%
195	8	Surface	**Totals**		**2.16E-07**	**3.59E-06**	**1.32E-07**		**3.94E-06**	
195	8	Surface	**Percent**		**5.49%**	**91.17%**	**3.34%**			
195	9	Surface	Chromium	6.08E+01			1.13E-07		1.13E-07	99.60%
195	9	Surface	Nickel	7.93E+01			4.55E-10		4.55E-10	0.40%
195	9	Surface	**Totals**				**1.13E-07**		**1.13E-07**	
195	9	Surface	**Percent**				**100.00%**			
195	10	Surface	Chromium	4.51E+01			8.36E-08		8.36E-08	99.49%
195	10	Surface	Nickel	7.40E+01			4.25E-10		4.25E-10	0.51%
195	10	Surface	**Totals**				**8.41E-08**		**8.41E-08**	
195	10	Surface	**Percent**				**100.00%**			
195	11	Surface	Arsenic	1.35E+01	1.98E-07	5.57E-07	1.28E-09		7.56E-07	88.36%
195	11	Surface	Chromium	5.05E+01			9.37E-08		9.37E-08	10.95%
195	11	Surface	Cobalt	2.77E+01			5.51E-09		5.51E-09	0.64%
195	11	Surface	Nickel	6.77E+01			3.89E-10		3.89E-10	0.05%
195	11	Surface	**Totals**		**1.98E-07**	**5.57E-07**	**1.01E-07**		**8.56E-07**	
195	11	Surface	**Percent**		**23.09%**	**65.12%**	**11.79%**			
195	12	Surface	Beryllium	7.50E-01	3.16E-08	2.96E-06	3.98E-11		3.00E-06	95.81%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
195	12	Surface	Chromium	7.04E+01			1.31E-07		1.31E-07	4.18%
195	12	Surface	Nickel	6.78E+01			3.89E-10		3.89E-10	0.01%
195	12	Surface	**Totals**		**3.16E-08**	**2.96E-06**	**1.31E-07**		**3.13E-06**	
195	12	Surface	**Percent**		**1.01%**	**94.80%**	**4.19%**			
195	13	Surface	Chromium	6.55E+01			1.22E-07		1.22E-07	99.67%
195	13	Surface	Nickel	6.91E+01			3.97E-10		3.97E-10	0.33%
195	13	Surface	**Totals**				**1.22E-07**		**1.22E-07**	
195	13	Surface	**Percent**				**100.00%**			
195	14	Surface	Chromium	5.94E+01			1.10E-07		1.10E-07	99.63%
195	14	Surface	Nickel	7.04E+01			4.04E-10		4.04E-10	0.37%
195	14	Surface	**Totals**				**1.11E-07**		**1.11E-07**	
195	14	Surface	**Percent**				**100.00%**			
195	15	Surface	Chromium	4.82E+01			8.94E-08		8.94E-08	100.00%
195	15	Surface	**Totals**				**8.94E-08**		**8.94E-08**	
195	15	Surface	**Percent**				**100.00%**			
195	16	Surface	Chromium	4.45E+01			8.25E-08		8.25E-08	99.44%
195	16	Surface	Nickel	8.16E+01			4.69E-10		4.69E-10	0.56%
195	16	Surface	**Totals**				**8.30E-08**		**8.30E-08**	
195	16	Surface	**Percent**				**100.00%**			
195	17	Surface	Chromium	8.22E+01			1.53E-07		1.53E-07	19.73%
195	17	Surface	Nickel	5.93E+01			3.41E-10		3.41E-10	0.04%
195	17	Surface	PCB, Total	7.40E-01	1.45E-08	1.91E-07	1.58E-08		2.21E-07	28.57%
195	17	Surface	Total PAH	3.16E-01	2.26E-08	2.76E-07	4.57E-10		2.99E-07	38.66%
195	17	Surface	Uranium-235	1.32E-01	3.77E-10		1.51E-11	1.83E-08	1.87E-08	2.42%
195	17	Surface	Uranium-238	2.48E+00	9.11E-09		2.62E-10	7.23E-08	8.17E-08	10.57%
195	17	Surface	**Totals**		**4.65E-08**	**4.66E-07**	**1.69E-07**	**9.06E-08**	**7.73E-07**	
195	17	Surface	**Percent**		**6.02%**	**60.34%**	**21.91%**	**11.73%**		
196	1	Surface	Chromium	1.96E+01			3.64E-08		3.64E-08	23.54%
196	1	Surface	Neptunium-237	3.11E-01	8.82E-10		6.21E-11	6.33E-08	6.42E-08	41.57%
196	1	Surface	Nickel	5.56E+02			3.19E-09		3.19E-09	2.07%
196	1	Surface	Uranium-238	1.54E+00	5.66E-09		1.63E-10	4.49E-08	5.07E-08	32.82%
196	1	Surface	**Totals**		**6.54E-09**		**3.98E-08**	**1.08E-07**	**1.55E-07**	
196	1	Surface	**Percent**		**4.23%**		**25.75%**	**70.01%**		
196	2	Surface	Cadmium	2.53E+00	9.41E-09	3.54E-08	1.01E-10		4.49E-08	3.59%
196	2	Surface	Chromium	2.07E+01			3.84E-08		3.84E-08	3.07%
196	2	Surface	Nickel	7.36E+01			4.23E-10		4.23E-10	0.03%
196	2	Surface	PCB, Total	1.51E+00	2.95E-08	3.89E-07	3.21E-08		4.51E-07	36.04%
196	2	Surface	Total PAH	6.80E-01	4.86E-08	5.94E-07	9.84E-10		6.43E-07	51.44%
196	2	Surface	Uranium-238	2.21E+00	8.12E-09		2.33E-10	6.44E-08	7.28E-08	5.82%
196	2	Surface	**Totals**		**9.57E-08**	**1.02E-06**	**7.23E-08**	**6.44E-08**	**1.25E-06**	
196	2	Surface	**Percent**		**7.65%**	**81.41%**	**5.78%**	**5.15%**		
200	1	Surface	Cesium-137	5.74E-01	4.35E-10		7.71E-14	3.73E-07	3.73E-07	26.26%
200	1	Surface	Chromium	5.75E+01			1.07E-07		1.07E-07	7.51%
200	1	Surface	Nickel	1.28E+02			7.35E-10		7.35E-10	0.05%
200	1	Surface	PCB, Total	2.60E+00	5.09E-08	6.70E-07	5.53E-08		7.76E-07	54.58%
200	1	Surface	Total PAH	2.84E-02	2.03E-09	2.48E-08	4.11E-11		2.69E-08	1.89%
200	1	Surface	Uranium-235	1.43E-01	4.08E-10		1.63E-11	1.99E-08	2.03E-08	1.43%
200	1	Surface	Uranium-238	3.58E+00	1.31E-08		3.78E-10	1.04E-07	1.18E-07	8.29%
200	1	Surface	**Totals**		**6.69E-08**	**6.94E-07**	**1.63E-07**	**4.97E-07**	**1.42E-06**	
200	1	Surface	**Percent**		**4.71%**	**48.85%**	**11.49%**	**34.96%**		
204	1	Surface	Beryllium	1.36E+00	5.72E-08	5.38E-06	7.21E-11		5.43E-06	82.69%
204	1	Surface	Cadmium	2.73E+00	1.02E-08	3.82E-08	1.09E-10		4.84E-08	0.74%
204	1	Surface	Chromium	7.40E+01			1.37E-07		1.37E-07	2.09%
204	1	Surface	PCB, Total	2.53E+00	4.95E-08	6.52E-07	5.38E-08		7.55E-07	11.49%
204	1	Surface	Uranium-235	1.80E-01	5.13E-10		2.05E-11	2.50E-08	2.55E-08	0.39%
204	1	Surface	Uranium-238	5.20E+00	1.91E-08		5.49E-10	1.52E-07	1.71E-07	2.61%
204	1	Surface	**Totals**		**1.37E-07**	**6.07E-06**	**1.92E-07**	**1.77E-07**	**6.57E-06**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
204	1	Surface	**Percent**		**2.08%**	**92.31%**	**2.92%**	**2.69%**		
204	2	Surface	Chromium	1.80E+01			3.34E-08		3.34E-08	39.71%
204	2	Surface	PCB, Total	1.70E-01	3.33E-09	4.38E-08	3.62E-09		5.07E-08	60.29%
204	2	Surface	**Totals**		**3.33E-09**	**4.38E-08**	**3.70E-08**		**8.41E-08**	
204	2	Surface	**Percent**		**3.95%**	**52.04%**	**44.01%**			
204	3	Surface	Chromium	2.06E+01			3.82E-08		3.82E-08	31.71%
204	3	Surface	Uranium-238	2.50E+00	9.19E-09		2.64E-10	7.29E-08	8.23E-08	68.29%
204	3	Surface	**Totals**		**9.19E-09**		**3.85E-08**	**7.29E-08**	**1.21E-07**	
204	3	Surface	**Percent**		**7.62%**		**31.93%**	**60.45%**		
204	4	Surface	Chromium	2.89E+01			5.36E-08		5.36E-08	13.39%
204	4	Surface	Uranium-235	1.88E-01	5.36E-10		2.14E-11	2.61E-08	2.66E-08	6.65%
204	4	Surface	Uranium-238	9.72E+00	3.57E-08		1.03E-09	2.83E-07	3.20E-07	79.96%
204	4	Surface	**Totals**		**3.63E-08**		**5.47E-08**	**3.10E-07**	**4.00E-07**	
204	4	Surface	**Percent**		**9.06%**		**13.66%**	**77.29%**		
204	18	Surface	Cesium-137	6.30E-01	4.77E-10		8.46E-14	4.09E-07	4.10E-07	67.80%
204	18	Surface	Uranium-235	1.25E-01	3.57E-10		1.43E-11	1.74E-08	1.77E-08	2.93%
204	18	Surface	Uranium-238	5.37E+00	1.97E-08		5.67E-10	1.57E-07	1.77E-07	29.27%
204	18	Surface	**Totals**		**2.06E-08**		**5.81E-10**	**5.83E-07**	**6.04E-07**	
204	18	Surface	**Percent**		**3.40%**		**0.10%**	**96.50%**		
204	23	Surface	Americium-241	3.71E+00	1.41E-08		1.18E-09	2.62E-08	4.14E-08	0.02%
204	23	Surface	Beryllium	1.33E+00	5.60E-08	5.26E-06	7.05E-11		5.31E-06	2.89%
204	23	Surface	Cesium-137	1.17E+00	8.88E-10		1.57E-13	7.61E-07	7.62E-07	0.41%
204	23	Surface	Chromium	1.75E+02			3.25E-07		3.25E-07	0.18%
204	23	Surface	Cobalt-60	1.23E-02	8.64E-12		4.95E-15	3.88E-08	3.89E-08	0.02%
204	23	Surface	PCB, Total	7.90E+01	1.55E-06	2.03E-05	1.68E-06		2.36E-05	12.82%
204	23	Surface	Uranium-234	4.45E+02	1.23E-06		5.73E-08	2.87E-08	1.32E-06	0.72%
204	23	Surface	Uranium-235	5.70E+01	1.63E-07		6.50E-09	7.91E-06	8.08E-06	4.40%
204	23	Surface	Uranium-238	4.39E+03	1.61E-05		4.63E-07	1.28E-04	1.44E-04	78.55%
204	23	Surface	**Totals**		**1.91E-05**	**2.56E-05**	**2.53E-06**	**1.37E-04**	**1.84E-04**	
204	23	Surface	**Percent**		**10.40%**	**13.92%**	**1.38%**	**74.30%**		
211	1	Surface	Chromium	4.48E+01			8.31E-08		8.31E-08	15.35%
211	1	Surface	Neptunium-237	1.46E-01	4.14E-10		2.92E-11	2.97E-08	3.02E-08	5.57%
211	1	Surface	PCB, Total	3.60E-01	7.05E-09	9.27E-08	7.66E-09		1.07E-07	19.85%
211	1	Surface	Total PAH	1.04E-01	7.41E-09	9.06E-08	1.50E-10		9.82E-08	18.14%
211	1	Surface	Uranium-235	2.12E-01	6.05E-10		2.42E-11	2.94E-08	3.01E-08	5.56%
211	1	Surface	Uranium-238	5.84E+00	2.15E-08		6.16E-10	1.70E-07	1.92E-07	35.54%
211	1	Surface	**Totals**		**3.69E-08**	**1.83E-07**	**9.15E-08**	**2.29E-07**	**5.41E-07**	
211	1	Surface	**Percent**		**6.83%**	**33.87%**	**16.91%**	**42.39%**		
212	1	Surface	Arsenic	1.44E+01	2.12E-07	5.97E-07	1.37E-09		8.10E-07	12.20%
212	1	Surface	Beryllium	8.10E-01	3.41E-08	3.20E-06	4.30E-11		3.24E-06	48.75%
212	1	Surface	Cesium-137	6.01E-01	4.55E-10		8.07E-14	3.90E-07	3.91E-07	5.89%
212	1	Surface	Chromium	3.58E+01			6.64E-08		6.64E-08	1.00%
212	1	Surface	Cobalt-60	8.76E-03	6.18E-12		3.54E-15	2.78E-08	2.78E-08	0.42%
212	1	Surface	Neptunium-237	4.00E+00	1.13E-08		7.99E-10	8.14E-07	8.26E-07	12.45%
212	1	Surface	Nickel	8.69E+01			4.99E-10		4.99E-10	0.01%
212	1	Surface	PCB, Total	1.80E-01	3.52E-09	4.64E-08	3.83E-09		5.37E-08	0.81%
212	1	Surface	Plutonium-239/240	6.71E+00	3.24E-08		2.52E-09	3.43E-10	3.53E-08	0.53%
212	1	Surface	Thorium-230	2.60E+02	9.19E-07		8.37E-08	5.45E-08	1.06E-06	15.93%
212	1	Surface	Uranium-235	2.09E-01	5.96E-10		2.38E-11	2.90E-08	2.96E-08	0.45%
212	1	Surface	Uranium-238	3.17E+00	1.16E-08		3.35E-10	9.24E-08	1.04E-07	1.57%
212	1	Surface	**Totals**		**1.22E-06**	**3.85E-06**	**1.60E-07**	**1.41E-06**	**6.64E-06**	
212	1	Surface	**Percent**		**18.45%**	**57.93%**	**2.40%**	**21.22%**		
213	1	Surface	Chromium	4.78E+01			8.87E-08		8.87E-08	25.34%
213	1	Surface	Nickel	6.67E+01			3.83E-10		3.83E-10	0.11%
213	1	Surface	PCB, Total	7.30E-02	1.43E-09	1.88E-08	1.55E-09		2.18E-08	6.22%
213	1	Surface	Total PAH	1.72E-01	1.23E-08	1.50E-07	2.49E-10		1.63E-07	46.42%
213	1	Surface	Uranium-238	2.33E+00	8.56E-09		2.46E-10	6.79E-08	7.67E-08	21.91%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
213	1	Surface	**Totals**		**2.23E-08**	**1.69E-07**	**9.12E-08**	**6.79E-08**	**3.50E-07**	
213	1	Surface	**Percent**		**6.36%**	**48.21%**	**26.03%**	**19.40%**		
213	2	Surface	Chromium	4.48E+01			8.32E-08		8.32E-08	99.38%
213	2	Surface	Nickel	9.10E+01			5.23E-10		5.23E-10	0.62%
213	2	Surface	**Totals**				**8.37E-08**		**8.37E-08**	
213	2	Surface	**Percent**				**100.00%**			
215	1	Surface	Chromium	5.73E+01			1.06E-07		1.06E-07	58.04%
215	1	Surface	Nickel	7.32E+01			4.20E-10		4.20E-10	0.23%
215	1	Surface	Total PAH	8.09E-02	5.78E-09	7.06E-08	1.17E-10		7.65E-08	41.73%
215	1	Surface	**Totals**		**5.78E-09**	**7.06E-08**	**1.07E-07**		**1.83E-07**	
215	1	Surface	**Percent**		**3.15%**	**38.52%**	**58.33%**			
216	1	Surface	Chromium	2.38E+01			4.42E-08		4.42E-08	19.27%
216	1	Surface	Total PAH	1.49E-01	1.07E-08	1.30E-07	2.16E-10		1.41E-07	61.62%
216	1	Surface	Uranium-238	1.33E+00	4.89E-09		1.40E-10	3.88E-08	4.38E-08	19.11%
216	1	Surface	**Totals**		**1.56E-08**	**1.30E-07**	**4.45E-08**	**3.88E-08**	**2.29E-07**	
216	1	Surface	**Percent**		**6.79%**	**56.87%**	**19.43%**	**16.92%**		
217	1	Surface	Chromium	8.58E+01			1.59E-07		1.59E-07	78.97%
217	1	Surface	Cobalt	1.96E+01			3.89E-09		3.89E-09	1.93%
217	1	Surface	Nickel	8.54E+01			4.91E-10		4.91E-10	0.24%
217	1	Surface	Uranium-238	1.15E+00	4.24E-09		1.22E-10	3.36E-08	3.80E-08	18.86%
217	1	Surface	**Totals**		**4.24E-09**		**1.64E-07**	**3.36E-08**	**2.02E-07**	
217	1	Surface	**Percent**		**2.10%**		**81.20%**	**16.69%**		
217	2	Surface	Arsenic	1.12E+01	1.64E-07	4.62E-07	1.06E-09		6.27E-07	48.33%
217	2	Surface	Chromium	1.02E+02			1.89E-07		1.89E-07	14.54%
217	2	Surface	Cobalt	1.74E+01			3.46E-09		3.46E-09	0.27%
217	2	Surface	Nickel	9.74E+01			5.59E-10		5.59E-10	0.04%
217	2	Surface	Total PAH	5.05E-01	3.61E-08	4.41E-07	7.31E-10		4.78E-07	36.82%
217	2	Surface	**Totals**		**2.00E-07**	**9.03E-07**	**1.94E-07**		**1.30E-06**	
217	2	Surface	**Percent**		**15.41%**	**69.60%**	**14.99%**			
219	1	Surface	Neptunium-237	3.31E-01	9.38E-10		6.61E-11	6.74E-08	6.84E-08	21.93%
219	1	Surface	Nickel	6.71E+01			3.86E-10		3.86E-10	0.12%
219	1	Surface	Total PAH	7.50E-02	5.36E-09	6.55E-08	1.09E-10		7.10E-08	22.76%
219	1	Surface	Uranium-235	1.92E-01	5.48E-10		2.19E-11	2.67E-08	2.72E-08	8.73%
219	1	Surface	Uranium-238	4.40E+00	1.62E-08		4.64E-10	1.28E-07	1.45E-07	46.46%
219	1	Surface	**Totals**		**2.30E-08**	**6.55E-08**	**1.05E-09**	**2.22E-07**	**3.12E-07**	
219	1	Surface	**Percent**		**7.38%**	**21.00%**	**0.34%**	**71.28%**		
221	1	Surface	Chromium	7.01E+01			1.30E-07		1.30E-07	9.93%
221	1	Surface	Nickel	7.93E+01			4.55E-10		4.55E-10	0.03%
221	1	Surface	PCB, Total	5.00E-01	9.78E-09	1.29E-07	1.06E-08		1.49E-07	11.39%
221	1	Surface	Total PAH	1.02E+00	7.30E-08	8.93E-07	1.48E-09		9.67E-07	73.80%
221	1	Surface	Uranium-238	1.93E+00	7.09E-09		2.04E-10	5.63E-08	6.36E-08	4.85%
221	1	Surface	**Totals**		**8.99E-08**	**1.02E-06**	**1.43E-07**	**5.63E-08**	**1.31E-06**	
221	1	Surface	**Percent**		**6.86%**	**77.94%**	**10.91%**	**4.29%**		
222	1	Surface	Chromium	4.73E+01			8.78E-08		8.78E-08	6.05%
222	1	Surface	Nickel	9.19E+01			5.28E-10		5.28E-10	0.04%
222	1	Surface	PCB, Total	1.40E+00	2.74E-08	3.61E-07	2.98E-08		4.18E-07	28.80%
222	1	Surface	Total PAH	1.77E-01	1.27E-08	1.55E-07	2.56E-10		1.68E-07	11.55%
222	1	Surface	Uranium-234	1.04E+01	2.88E-08		1.34E-09	6.70E-10	3.08E-08	2.12%
222	1	Surface	Uranium-235	7.10E-01	2.03E-09		8.10E-11	9.86E-08	1.01E-07	6.94%
222	1	Surface	Uranium-238	1.96E+01	7.20E-08		2.07E-09	5.71E-07	6.45E-07	44.50%
222	1	Surface	**Totals**		**1.43E-07**	**5.15E-07**	**1.22E-07**	**6.71E-07**	**1.45E-06**	
222	1	Surface	**Percent**		**9.85%**	**35.52%**	**8.40%**	**46.23%**		
224	1	Surface	Chromium	4.49E+01			8.33E-08		8.33E-08	0.04%
224	1	Surface	PCB, Total	4.75E+02	9.30E-06	1.22E-04	1.01E-05		1.42E-04	76.39%
224	1	Surface	Total PAH	4.53E+01	3.23E-06	3.95E-05	6.55E-08		4.28E-05	23.08%
224	1	Surface	Uranium-235	2.50E-01	7.13E-10		2.85E-11	3.47E-08	3.55E-08	0.02%
224	1	Surface	Uranium-238	2.64E+01	9.70E-08		2.79E-09	7.70E-07	8.69E-07	0.47%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
224	1	Surface	**Totals**		**1.26E-05**	**1.62E-04**	**1.03E-05**	**8.04E-07**	**1.86E-04**	
224	1	Surface	**Percent**		**6.81%**	**87.23%**	**5.53%**	**0.43%**		
225	1	Surface	Chromium	2.55E+01			4.73E-08		4.73E-08	25.16%
225	1	Surface	Total PAH	7.79E-02	5.56E-09	6.80E-08	1.13E-10		7.36E-08	39.14%
225	1	Surface	Uranium-238	2.04E+00	7.50E-09		2.15E-10	5.95E-08	6.72E-08	35.71%
225	1	Surface	**Totals**		**1.31E-08**	**6.80E-08**	**4.77E-08**	**5.95E-08**	**1.88E-07**	
225	1	Surface	**Percent**		**6.94%**	**36.12%**	**25.33%**	**31.61%**		
226	1	Surface	Americium-241	1.62E+00	6.16E-09		5.15E-10	1.15E-08	1.81E-08	0.05%
226	1	Surface	Cesium-137	2.65E+00	2.01E-09		3.56E-13	1.72E-06	1.72E-06	4.70%
226	1	Surface	Chromium	4.25E+01			7.89E-08		7.89E-08	0.22%
226	1	Surface	Cobalt-60	3.14E-03	2.21E-12		1.27E-15	9.96E-09	9.96E-09	0.03%
226	1	Surface	Neptunium-237	1.60E+02	4.54E-07		3.20E-08	3.26E-05	3.31E-05	90.12%
226	1	Surface	Nickel	2.10E+02			1.20E-09		1.20E-09	0.00%
226	1	Surface	PCB, Total	1.49E+00	2.92E-08	3.84E-07	3.17E-08		4.45E-07	1.21%
226	1	Surface	Plutonium-238	2.13E+00	1.01E-08		8.09E-10	3.94E-11	1.10E-08	0.03%
226	1	Surface	Plutonium-239/240	6.52E+00	3.15E-08		2.45E-09	3.33E-10	3.43E-08	0.09%
226	1	Surface	Technetium-99	4.96E+01	6.65E-09		7.90E-12	1.03E-09	7.69E-09	0.02%
226	1	Surface	Thorium-230	4.77E+01	1.69E-07		1.54E-08	9.99E-09	1.94E-07	0.53%
226	1	Surface	Total PAH	9.19E-02	6.56E-09	8.02E-08	1.33E-10		8.69E-08	0.24%
226	1	Surface	Uranium-234	2.29E+01	6.34E-08		2.95E-09	1.48E-09	6.78E-08	0.18%
226	1	Surface	Uranium-235	1.10E+00	3.14E-09		1.26E-10	1.53E-07	1.56E-07	0.43%
226	1	Surface	Uranium-238	2.40E+01	8.82E-08		2.53E-09	7.00E-07	7.90E-07	2.15%
226	1	Surface	**Totals**		**8.70E-07**	**4.64E-07**	**1.69E-07**	**3.52E-05**	**3.67E-05**	
226	1	Surface	**Percent**		**2.37%**	**1.26%**	**0.46%**	**95.91%**		
227	1	Surface	Beryllium	5.52E-01	2.32E-08	2.18E-06	2.93E-11		2.21E-06	36.77%
227	1	Surface	Cesium-137	1.90E-01	1.44E-10		2.55E-14	1.23E-07	1.24E-07	2.06%
227	1	Surface	Chromium	4.71E+01			8.75E-08		8.75E-08	1.46%
227	1	Surface	Cobalt-60	1.53E-02	1.08E-11		6.18E-15	4.85E-08	4.85E-08	0.81%
227	1	Surface	Neptunium-237	9.05E-01	2.57E-09		1.81E-10	1.84E-07	1.87E-07	3.12%
227	1	Surface	Nickel	2.03E+02			1.17E-09		1.17E-09	0.02%
227	1	Surface	PCB, Total	4.14E+00	8.11E-08	1.07E-06	8.82E-08		1.24E-06	20.61%
227	1	Surface	Technetium-99	4.77E+01	6.40E-09		7.60E-12	9.93E-10	7.40E-09	0.12%
227	1	Surface	Total PAH	3.38E-01	2.41E-08	2.95E-07	4.89E-10		3.19E-07	5.33%
227	1	Surface	Uranium-234	1.54E+01	4.27E-08		1.99E-09	9.95E-10	4.57E-08	0.76%
227	1	Surface	Uranium-235	1.49E+00	4.25E-09		1.70E-10	2.07E-07	2.11E-07	3.52%
227	1	Surface	Uranium-238	4.63E+01	1.70E-07		4.89E-09	1.35E-06	1.52E-06	25.41%
227	1	Surface	**Totals**		**3.55E-07**	**3.54E-06**	**1.85E-07**	**1.91E-06**	**6.00E-06**	
227	1	Surface	**Percent**		**5.91%**	**59.09%**	**3.08%**	**31.92%**		
227	2	Surface	Beryllium	5.32E-01	2.24E-08	2.10E-06	2.82E-11		2.13E-06	50.92%
227	2	Surface	Chromium	5.63E+01			1.05E-07		1.05E-07	2.50%
227	2	Surface	Cobalt	8.99E+00			1.79E-09		1.79E-09	0.04%
227	2	Surface	Cobalt-60	1.37E-02	9.66E-12		5.54E-15	4.34E-08	4.34E-08	1.04%
227	2	Surface	Nickel	1.25E+02			7.17E-10		7.17E-10	0.02%
227	2	Surface	PCB, Total	5.82E+00	1.14E-07	1.50E-06	1.24E-07		1.74E-06	41.61%
227	2	Surface	Total PAH	1.16E-01	8.26E-09	1.01E-07	1.67E-10		1.09E-07	2.62%
227	2	Surface	Uranium-238	1.57E+00	5.78E-09		1.66E-10	4.59E-08	5.18E-08	1.24%
227	2	Surface	**Totals**		**1.50E-07**	**3.70E-06**	**2.31E-07**	**8.93E-08**	**4.17E-06**	
227	2	Surface	**Percent**		**3.60%**	**88.72%**	**5.54%**	**2.14%**		
228	1	Surface	Cadmium	3.90E+00	1.45E-08	5.45E-08	1.55E-10		6.92E-08	8.67%
228	1	Surface	Chromium	1.89E+02			3.51E-07		3.51E-07	43.93%
228	1	Surface	Neptunium-237	8.00E-01	2.27E-09		1.60E-10	1.63E-07	1.65E-07	20.71%
228	1	Surface	Nickel	7.92E+01			4.55E-10		4.55E-10	0.06%
228	1	Surface	Total PAH	6.69E-02	4.78E-09	5.84E-08	9.68E-11		6.32E-08	7.92%
228	1	Surface	Uranium-235	1.78E-01	5.08E-10		2.03E-11	2.47E-08	2.52E-08	3.16%
228	1	Surface	Uranium-238	3.77E+00	1.39E-08		3.98E-10	1.10E-07	1.24E-07	15.56%
228	1	Surface	**Totals**		**3.59E-08**	**1.13E-07**	**3.52E-07**	**2.97E-07**	**7.98E-07**	
228	1	Surface	**Percent**		**4.50%**	**14.15%**	**44.09%**	**37.27%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
229	1	Surface	Nickel	9.14E+01			5.25E-10		5.25E-10	0.22%
229	1	Surface	Total PAH	1.57E-01	1.12E-08	1.37E-07	2.27E-10		1.48E-07	61.02%
229	1	Surface	Uranium-238	2.86E+00	1.05E-08		3.02E-10	8.34E-08	9.42E-08	38.76%
229	1	Surface	**Totals**		**2.17E-08**	**1.37E-07**	**1.05E-09**	**8.34E-08**	**2.43E-07**	
229	1	Surface	**Percent**		**8.93%**	**56.32%**	**0.43%**	**34.31%**		
229	2	Surface	Arsenic	2.12E+01	3.11E-07	8.77E-07	2.02E-09		1.19E-06	16.91%
229	2	Surface	Beryllium	7.90E-01	3.32E-08	3.12E-06	4.19E-11		3.16E-06	44.84%
229	2	Surface	Chromium	2.91E+01			5.41E-08		5.41E-08	0.77%
229	2	Surface	Neptunium-237	2.87E-01	8.14E-10		5.74E-11	5.84E-08	5.93E-08	0.84%
229	2	Surface	Nickel	9.93E+01			5.70E-10		5.70E-10	0.01%
229	2	Surface	Total PAH	1.69E+00	1.21E-07	1.48E-06	2.45E-09		1.60E-06	22.77%
229	2	Surface	Uranium-234	1.22E+01	3.37E-08		1.57E-09	7.86E-10	3.61E-08	0.51%
229	2	Surface	Uranium-235	8.40E-01	2.40E-09		9.58E-11	1.17E-07	1.19E-07	1.69%
229	2	Surface	Uranium-238	2.49E+01	9.15E-08		2.63E-09	7.26E-07	8.20E-07	11.65%
229	2	Surface	**Totals**		**5.94E-07**	**5.48E-06**	**6.35E-08**	**9.02E-07**	**7.04E-06**	
229	2	Surface	**Percent**		**8.44%**	**77.85%**	**0.90%**	**12.81%**		
483	1	Surface	Nickel	1.17E+02			6.70E-10		6.70E-10	2.88%
483	1	Surface	Total PAH	2.39E-02	1.71E-09	2.09E-08	3.46E-11		2.26E-08	97.12%
483	1	Surface	**Totals**		**1.71E-09**	**2.09E-08**	**7.04E-10**		**2.33E-08**	
483	1	Surface	**Percent**		**7.34%**	**89.64%**	**3.03%**			
486	1	Surface	Cesium-137	1.71E+00	1.30E-09		2.30E-13	1.11E-06	1.11E-06	100.00%
486	1	Surface	**Totals**		**1.30E-09**		**2.30E-13**	**1.11E-06**	**1.11E-06**	
486	1	Surface	**Percent**		**0.12%**		**0.00%**	**99.88%**		
487	1	Surface	Cesium-137	1.38E+00	1.05E-09		1.85E-13	8.96E-07	8.97E-07	100.00%
487	1	Surface	**Totals**		**1.05E-09**		**1.85E-13**	**8.96E-07**	**8.97E-07**	
487	1	Surface	**Percent**		**0.12%**		**0.00%**	**99.88%**		
488	1	Surface	Cesium-137	5.20E-01	3.94E-10		6.99E-14	3.38E-07	3.38E-07	8.86%
488	1	Surface	PCB, Total	1.03E+01	2.02E-07	2.65E-06	2.19E-07		3.07E-06	80.49%
488	1	Surface	Total PAH	2.50E-01	1.78E-08	2.18E-07	3.61E-10		2.36E-07	6.19%
488	1	Surface	Uranium-235	1.49E-01	4.25E-10		1.70E-11	2.07E-08	2.11E-08	0.55%
488	1	Surface	Uranium-238	4.54E+00	1.67E-08		4.79E-10	1.32E-07	1.50E-07	3.92%
488	1	Surface	**Totals**		**2.37E-07**	**2.87E-06**	**2.20E-07**	**4.91E-07**	**3.82E-06**	
488	1	Surface	**Percent**		**6.20%**	**75.18%**	**5.76%**	**12.85%**		
489	1	Surface	Chromium	4.16E+01			7.73E-08		7.73E-08	37.90%
489	1	Surface	Nickel	7.88E+01			4.53E-10		4.53E-10	0.22%
489	1	Surface	Total PAH	8.22E-02	5.87E-09	7.17E-08	1.19E-10		7.77E-08	38.13%
489	1	Surface	Uranium-238	1.47E+00	5.40E-09		1.55E-10	4.29E-08	4.84E-08	23.75%
489	1	Surface	**Totals**		**1.13E-08**	**7.17E-08**	**7.80E-08**	**4.29E-08**	**2.04E-07**	
489	1	Surface	**Percent**		**5.53%**	**35.19%**	**38.26%**	**21.02%**		
492	1	Surface	Arsenic	1.47E+01	2.16E-07	6.08E-07	1.40E-09		8.26E-07	1.16%
492	1	Surface	Beryllium	1.04E+01	4.38E-07	4.11E-05	5.51E-10		4.16E-05	58.38%
492	1	Surface	Cadmium	3.14E+00	1.17E-08	4.39E-08	1.25E-10		5.57E-08	0.08%
492	1	Surface	Chromium	1.04E+03			1.93E-06		1.93E-06	2.71%
492	1	Surface	Cobalt-60	9.63E-03	6.79E-12		3.89E-15	3.05E-08	3.05E-08	0.04%
492	1	Surface	Neptunium-237	2.09E-01	5.93E-10		4.18E-11	4.25E-08	4.32E-08	0.06%
492	1	Surface	PCB, Total	4.41E+01	8.63E-07	1.14E-05	9.39E-07		1.32E-05	18.49%
492	1	Surface	Uranium-234	5.39E+01	1.49E-07		6.94E-09	3.47E-09	1.59E-07	0.22%
492	1	Surface	Uranium-235	5.72E+00	1.63E-08		6.52E-10	7.94E-07	8.11E-07	1.14%
492	1	Surface	Uranium-238	3.83E+02	1.41E-06		4.04E-08	1.12E-05	1.26E-05	17.72%
492	1	Surface	**Totals**		**3.10E-06**	**5.31E-05**	**2.92E-06**	**1.20E-05**	**7.12E-05**	
492	1	Surface	**Percent**		**4.36%**	**74.63%**	**4.10%**	**16.91%**		
493	1	Surface	Beryllium	9.91E-01	4.17E-08	3.92E-06	5.25E-11		3.96E-06	80.57%
493	1	Surface	Chromium	6.61E+01			1.23E-07		1.23E-07	2.50%
493	1	Surface	Cobalt	3.79E+01			7.54E-09		7.54E-09	0.15%
493	1	Surface	Cobalt-60	1.36E-02	9.59E-12		5.50E-15	4.31E-08	4.31E-08	0.88%
493	1	Surface	Neptunium-237	1.22E-01	3.46E-10		2.44E-11	2.48E-08	2.52E-08	0.51%
493	1	Surface	Nickel	2.13E+02			1.22E-09		1.22E-09	0.02%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
493	1	Surface	PCB, Total	2.60E-01	5.09E-09	6.70E-08	5.53E-09		7.76E-08	1.58%
493	1	Surface	Total PAH	5.00E-01	3.57E-08	4.36E-07	7.23E-10		4.73E-07	9.62%
493	1	Surface	Uranium-235	1.65E-01	4.71E-10		1.88E-11	2.29E-08	2.34E-08	0.48%
493	1	Surface	Uranium-238	5.50E+00	2.02E-08		5.81E-10	1.60E-07	1.81E-07	3.69%
493	1	Surface	**Totals**		**1.04E-07**	**4.42E-06**	**1.38E-07**	**2.51E-07**	**4.91E-06**	
493	1	Surface	**Percent**		**2.11%**	**89.97%**	**2.82%**	**5.11%**		
517	1	Surface	Beryllium	7.39E-01	3.11E-08	2.92E-06	3.92E-11		2.95E-06	82.34%
517	1	Surface	Chromium	4.91E+01			9.11E-08		9.11E-08	2.54%
517	1	Surface	Cobalt-60	6.39E-03	4.51E-12		2.58E-15	2.03E-08	2.03E-08	0.57%
517	1	Surface	Neptunium-237	1.07E+00	3.03E-09		2.14E-10	2.18E-07	2.21E-07	6.16%
517	1	Surface	Nickel	1.72E+02			9.88E-10		9.88E-10	0.03%
517	1	Surface	PCB, Total	5.00E-01	9.78E-09	1.29E-07	1.06E-08		1.49E-07	4.16%
517	1	Surface	Uranium-235	1.60E-01	4.56E-10		1.82E-11	2.22E-08	2.27E-08	0.63%
517	1	Surface	Uranium-238	3.89E+00	1.43E-08		4.11E-10	1.13E-07	1.28E-07	3.57%
517	1	Surface	**Totals**		**5.87E-08**	**3.05E-06**	**1.03E-07**	**3.74E-07**	**3.59E-06**	
517	1	Surface	**Percent**		**1.64%**	**85.06%**	**2.88%**	**10.42%**		
518	1	Surface	Carbazole	1.17E+01	2.29E-09	2.16E-08			2.39E-08	0.51%
518	1	Surface	Cobalt	6.80E+00			1.35E-09		1.35E-09	0.03%
518	1	Surface	Nickel	1.29E+01			7.39E-11		7.39E-11	0.00%
518	1	Surface	PCB, Total	6.30E-01	1.23E-08	1.62E-07	1.34E-08		1.88E-07	4.04%
518	1	Surface	Total PAH	4.64E+00	3.31E-07	4.05E-06	6.71E-09		4.39E-06	94.15%
518	1	Surface	Uranium-235	6.74E-02	1.92E-10		7.69E-12	9.36E-09	9.56E-09	0.21%
518	1	Surface	Uranium-238	1.51E+00	5.56E-09		1.60E-10	4.41E-08	4.99E-08	1.07%
518	1	Surface	**Totals**		**3.52E-07**	**4.23E-06**	**2.17E-08**	**5.35E-08**	**4.66E-06**	
518	1	Surface	**Percent**		**7.55%**	**90.84%**	**0.47%**	**1.15%**		
520	1	Surface	Cesium-137	9.62E-01	7.29E-10		1.29E-13	6.25E-07	6.26E-07	59.87%
520	1	Surface	Chromium	3.17E+01			5.89E-08		5.89E-08	5.64%
520	1	Surface	Neptunium-237	6.56E-01	1.86E-09		1.31E-10	1.34E-07	1.36E-07	12.97%
520	1	Surface	Nickel	2.60E+02			1.50E-09		1.50E-09	0.14%
520	1	Surface	Thorium-230	1.13E+01	4.01E-08		3.65E-09	2.37E-09	4.61E-08	4.41%
520	1	Surface	Total PAH	3.18E-02	2.27E-09	2.78E-08	4.61E-11		3.01E-08	2.88%
520	1	Surface	Uranium-235	1.26E-01	3.59E-10		1.44E-11	1.75E-08	1.79E-08	1.71%
520	1	Surface	Uranium-238	3.93E+00	1.44E-08		4.15E-10	1.15E-07	1.29E-07	12.38%
520	1	Surface	**Totals**		**5.97E-08**	**2.78E-08**	**6.46E-08**	**8.93E-07**	**1.04E-06**	
520	1	Surface	**Percent**		**5.72%**	**2.66%**	**6.19%**	**85.44%**		
520	2	Surface	Beryllium	5.79E-01	2.44E-08	2.29E-06	3.07E-11		2.31E-06	82.25%
520	2	Surface	Chromium	6.67E+01			1.24E-07		1.24E-07	4.40%
520	2	Surface	Neptunium-237	7.48E-02	2.12E-10		1.49E-11	1.52E-08	1.55E-08	0.55%
520	2	Surface	Nickel	3.11E+02			1.78E-09		1.78E-09	0.06%
520	2	Surface	Total PAH	3.17E-01	2.26E-08	2.77E-07	4.59E-10		3.00E-07	10.66%
520	2	Surface	Uranium-238	1.78E+00	6.53E-09		1.88E-10	5.18E-08	5.86E-08	2.08%
520	2	Surface	**Totals**		**5.38E-08**	**2.57E-06**	**1.26E-07**	**6.71E-08**	**2.81E-06**	
520	2	Surface	**Percent**		**1.91%**	**91.22%**	**4.49%**	**2.38%**		
520	3	Surface	Chromium	3.97E+01			7.36E-08		7.36E-08	30.87%
520	3	Surface	Nickel	2.65E+02			1.52E-09		1.52E-09	0.64%
520	3	Surface	Total PAH	1.18E-01	8.44E-09	1.03E-07	1.71E-10		1.12E-07	46.82%
520	3	Surface	Uranium-238	1.57E+00	5.77E-09		1.66E-10	4.58E-08	5.17E-08	21.67%
520	3	Surface	**Totals**		**1.42E-08**	**1.03E-07**	**7.55E-08**	**4.58E-08**	**2.39E-07**	
520	3	Surface	**Percent**		**5.95%**	**43.21%**	**31.65%**	**19.19%**		
520	4	Surface	Chromium	3.82E+01			7.10E-08		7.10E-08	7.18%
520	4	Surface	Neptunium-237	7.40E-01	2.10E-09		1.48E-10	1.51E-07	1.53E-07	15.47%
520	4	Surface	Nickel	2.82E+02			1.62E-09		1.62E-09	0.16%
520	4	Surface	Total PAH	5.52E-01	3.95E-08	4.82E-07	7.99E-10		5.22E-07	52.86%
520	4	Surface	Uranium-235	2.42E-01	6.90E-10		2.76E-11	3.36E-08	3.43E-08	3.47%
520	4	Surface	Uranium-238	6.26E+00	2.30E-08		6.61E-10	1.82E-07	2.06E-07	20.86%
520	4	Surface	**Totals**		**6.53E-08**	**4.82E-07**	**7.42E-08**	**3.67E-07**	**9.88E-07**	
520	4	Surface	**Percent**		**6.60%**	**48.79%**	**7.51%**	**37.10%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
520	5	Surface	Chromium	3.68E+01			6.83E-08		6.83E-08	13.26%
520	5	Surface	Neptunium-237	1.55E-01	4.39E-10		3.10E-11	3.15E-08	3.20E-08	6.22%
520	5	Surface	Nickel	1.47E+02			8.44E-10		8.44E-10	0.16%
520	5	Surface	Total PAH	3.87E-01	2.77E-08	3.38E-07	5.60E-10		3.66E-07	71.09%
520	5	Surface	Uranium-238	1.45E+00	5.33E-09		1.53E-10	4.23E-08	4.78E-08	9.27%
520	5	Surface	**Totals**		**3.34E-08**	**3.38E-07**	**6.99E-08**	**7.38E-08**	**5.15E-07**	
520	5	Surface	**Percent**		**6.49%**	**65.61%**	**13.57%**	**14.33%**		
531	1	Surface	Arsenic	4.68E+01	6.87E-07	1.94E-06	4.46E-09		2.63E-06	88.72%
531	1	Surface	Cadmium	3.10E+00	1.15E-08	4.33E-08	1.23E-10		5.50E-08	1.86%
531	1	Surface	Chromium	5.05E+01			9.36E-08		9.36E-08	3.16%
531	1	Surface	Nickel	1.62E+02			9.32E-10		9.32E-10	0.03%
531	1	Surface	Total PAH	5.34E-02	3.81E-09	4.66E-08	7.72E-11		5.05E-08	1.70%
531	1	Surface	Uranium-235	1.38E-01	3.94E-10		1.57E-11	1.92E-08	1.96E-08	0.66%
531	1	Surface	Uranium-238	3.48E+00	1.28E-08		3.67E-10	1.01E-07	1.15E-07	3.87%
531	1	Surface	**Totals**		**7.16E-07**	**2.03E-06**	**9.96E-08**	**1.21E-07**	**2.96E-06**	
531	1	Surface	**Percent**		**24.15%**	**68.42%**	**3.36%**	**4.07%**		
541	1	Surface	Americium-241	7.53E+00	2.86E-08		2.39E-09	5.32E-08	8.41E-08	0.14%
541	1	Surface	Beryllium	6.98E-01	2.94E-08	2.76E-06	3.70E-11		2.79E-06	4.55%
541	1	Surface	Cadmium	1.68E+00	6.25E-09	2.35E-08	6.69E-11		2.98E-08	0.05%
541	1	Surface	Cesium-137	9.58E-01	7.26E-10		1.29E-13	6.22E-07	6.23E-07	1.02%
541	1	Surface	Chromium	8.24E+02			1.53E-06		1.53E-06	2.50%
541	1	Surface	Cobalt-60	1.01E-02	7.12E-12		4.08E-15	3.20E-08	3.20E-08	0.05%
541	1	Surface	Naphthalene	6.55E-01			1.64E-08		1.64E-08	0.03%
541	1	Surface	Neptunium-237	5.52E-02	1.56E-10		1.10E-11	1.12E-08	1.14E-08	0.02%
541	1	Surface	Nickel	1.52E+01			8.75E-11		8.75E-11	0.00%
541	1	Surface	PCB, Total	6.06E+01	1.19E-06	1.56E-05	1.29E-06		1.81E-05	29.51%
541	1	Surface	Total PAH	2.33E+00	1.66E-07	2.03E-06	3.37E-09		2.20E-06	3.59%
541	1	Surface	Uranium-234	1.43E+02	3.95E-07		1.84E-08	9.21E-09	4.23E-07	0.69%
541	1	Surface	Uranium-235	1.76E+01	5.01E-08		2.00E-09	2.44E-06	2.49E-06	4.06%
541	1	Surface	Uranium-238	1.00E+03	3.68E-06		1.06E-07	2.92E-05	3.30E-05	53.79%
541	1	Surface	**Totals**		**5.54E-06**	**2.04E-05**	**2.97E-06**	**3.23E-05**	**6.13E-05**	
541	1	Surface	**Percent**		**9.04%**	**33.33%**	**4.84%**	**52.78%**		
561	1	Surface	Arsenic	1.66E+01	2.43E-07	6.85E-07	1.58E-09		9.29E-07	11.27%
561	1	Surface	Beryllium	6.85E-01	2.88E-08	2.71E-06	3.63E-11		2.74E-06	33.18%
561	1	Surface	Chromium	8.58E+01			1.59E-07		1.59E-07	1.93%
561	1	Surface	Cobalt	1.07E+01			2.13E-09		2.13E-09	0.03%
561	1	Surface	Cobalt-60	7.06E-02	4.98E-11		2.85E-14	2.24E-07	2.24E-07	2.71%
561	1	Surface	Neptunium-237	2.71E-02	7.68E-11		5.42E-12	5.52E-09	5.60E-09	0.07%
561	1	Surface	PCB, Total	1.04E+00	2.04E-08	2.68E-07	2.22E-08		3.11E-07	3.77%
561	1	Surface	Total PAH	1.65E-01	1.18E-08	1.44E-07	2.39E-10		1.56E-07	1.89%
561	1	Surface	Uranium-234	7.84E+00	2.17E-08		1.01E-09	5.05E-10	2.32E-08	0.28%
561	1	Surface	Uranium-235	1.37E+00	3.90E-09		1.56E-10	1.90E-07	1.94E-07	2.35%
561	1	Surface	Uranium-238	1.07E+02	3.91E-07		1.12E-08	3.10E-06	3.51E-06	42.52%
561	1	Surface	**Totals**		**7.21E-07**	**3.81E-06**	**1.98E-07**	**3.52E-06**	**8.25E-06**	
561	1	Surface	**Percent**		**8.74%**	**46.14%**	**2.40%**	**42.73%**		
561	2	Surface	Arsenic	1.30E+01	1.91E-07	5.38E-07	1.24E-09		7.31E-07	3.07%
561	2	Surface	Beryllium	6.34E-01	2.67E-08	2.51E-06	3.36E-11		2.53E-06	10.65%
561	2	Surface	Cadmium	4.13E-01	1.54E-09	5.77E-09	1.64E-11		7.33E-09	0.03%
561	2	Surface	Cesium-137	4.09E-01	3.10E-10		5.50E-14	2.66E-07	2.66E-07	1.12%
561	2	Surface	Chromium	2.88E+02			5.35E-07		5.35E-07	2.25%
561	2	Surface	Cobalt	1.14E+01			2.27E-09		2.27E-09	0.01%
561	2	Surface	Cobalt-60	2.76E-02	1.95E-11		1.12E-14	8.75E-08	8.75E-08	0.37%
561	2	Surface	Neptunium-237	4.71E-02	1.34E-10		9.41E-12	9.59E-09	9.73E-09	0.04%
561	2	Surface	PCB, Total	1.64E+01	3.20E-07	4.21E-06	3.48E-07		4.88E-06	20.53%
561	2	Surface	Total PAH	4.43E-01	3.16E-08	3.87E-07	6.41E-10		4.19E-07	1.76%
561	2	Surface	Uranium-234	4.06E+01	1.12E-07		5.23E-09	2.62E-09	1.20E-07	0.51%
561	2	Surface	Uranium-235	7.09E+00	2.02E-08		8.09E-10	9.85E-07	1.01E-06	4.23%
561	2	Surface	Uranium-238	4.00E+02	1.47E-06		4.23E-08	1.17E-05	1.32E-05	55.43%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
561	2	Surface	**Totals**		**2.18E-06**	**7.65E-06**	**9.36E-07**	**1.30E-05**	**2.38E-05**	
561	2	Surface	**Percent**		**9.15%**	**32.17%**	**3.93%**	**54.75%**		
562	1	Surface	Uranium-238	2.73E+00	1.00E-08		2.88E-10	7.96E-08	8.99E-08	100.00%
562	1	Surface	**Totals**		**1.00E-08**		**2.88E-10**	**7.96E-08**	**8.99E-08**	
562	1	Surface	**Percent**		**11.16%**		**0.32%**	**88.52%**		
562	2	Surface	PCB, Total	1.58E+00	3.09E-08	4.07E-07	3.36E-08		4.71E-07	2.24%
562	2	Surface	Uranium-234	5.34E+01	1.48E-07		6.87E-09	3.44E-09	1.58E-07	0.75%
562	2	Surface	Uranium-235	8.96E+00	2.56E-08		1.02E-09	1.24E-06	1.27E-06	6.04%
562	2	Surface	Uranium-238	5.81E+02	2.14E-06		6.13E-08	1.69E-05	1.91E-05	90.97%
562	2	Surface	**Totals**		**2.34E-06**	**4.07E-07**	**1.03E-07**	**1.82E-05**	**2.10E-05**	
562	2	Surface	**Percent**		**11.12%**	**1.93%**	**0.49%**	**86.45%**		
562	3	Surface	Chromium	3.82E+01			7.08E-08		7.08E-08	9.67%
562	3	Surface	PCB, Total	2.40E-01	4.70E-09	6.18E-08	5.11E-09		7.16E-08	9.78%
562	3	Surface	Total PAH	2.20E-01	1.57E-08	1.92E-07	3.18E-10		2.08E-07	28.40%
562	3	Surface	Uranium-235	1.63E-01	4.65E-10		1.86E-11	2.26E-08	2.31E-08	3.16%
562	3	Surface	Uranium-238	1.09E+01	4.01E-08		1.15E-09	3.18E-07	3.59E-07	49.00%
562	3	Surface	**Totals**		**6.09E-08**	**2.54E-07**	**7.74E-08**	**3.40E-07**	**7.33E-07**	
562	3	Surface	**Percent**		**8.32%**	**34.65%**	**10.57%**	**46.46%**		
562	4	Surface	Chromium	4.67E+01			8.66E-08		8.66E-08	54.00%
562	4	Surface	Uranium-238	2.24E+00	8.23E-09		2.36E-10	6.53E-08	7.38E-08	46.00%
562	4	Surface	**Totals**		**8.23E-09**		**8.68E-08**	**6.53E-08**	**1.60E-07**	
562	4	Surface	**Percent**		**5.13%**		**54.15%**	**40.72%**		
562	5	Surface	Chromium	1.53E+02			2.84E-07		2.84E-07	9.97%
562	5	Surface	PCB, Total	9.50E-01	1.86E-08	2.45E-07	2.02E-08		2.83E-07	9.95%
562	5	Surface	Total PAH	7.05E-02	5.04E-09	6.15E-08	1.02E-10		6.67E-08	2.34%
562	5	Surface	Uranium-234	8.57E+00	2.37E-08		1.10E-09	5.52E-10	2.54E-08	0.89%
562	5	Surface	Uranium-235	9.50E-01	2.71E-09		1.08E-10	1.32E-07	1.35E-07	4.73%
562	5	Surface	Uranium-238	6.24E+01	2.29E-07		6.59E-09	1.82E-06	2.05E-06	72.12%
562	5	Surface	**Totals**		**2.79E-07**	**3.06E-07**	**3.12E-07**	**1.95E-06**	**2.85E-06**	
562	5	Surface	**Percent**		**9.80%**	**10.75%**	**10.96%**	**68.49%**		
563	1	Surface	Cadmium	8.96E-01	3.33E-09	1.25E-08	3.56E-11		1.59E-08	1.86%
563	1	Surface	Chromium	2.85E+02			5.29E-07		5.29E-07	61.75%
563	1	Surface	PCB, Total	7.40E-01	1.45E-08	1.91E-07	1.58E-08		2.21E-07	25.78%
563	1	Surface	Uranium-238	2.76E+00	1.01E-08		2.91E-10	8.05E-08	9.09E-08	10.61%
563	1	Surface	**Totals**		**2.80E-08**	**2.03E-07**	**5.45E-07**	**8.05E-08**	**8.57E-07**	
563	1	Surface	**Percent**		**3.26%**	**23.71%**	**63.63%**	**9.39%**		
563	2	Surface	Cesium-137	6.47E-01	4.90E-10		8.69E-14	4.20E-07	4.21E-07	89.56%
563	2	Surface	Uranium-238	1.49E+00	5.48E-09		1.57E-10	4.34E-08	4.91E-08	10.44%
563	2	Surface	**Totals**		**5.97E-09**		**1.57E-10**	**4.64E-07**	**4.70E-07**	
563	2	Surface	**Percent**		**1.27%**		**0.03%**	**98.70%**		
564	1	Surface	Arsenic	4.30E+01	6.31E-07	1.78E-06	4.10E-09		2.41E-06	19.46%
564	1	Surface	Beryllium	2.12E+00	8.92E-08	8.38E-06	1.12E-10		8.47E-06	68.26%
564	1	Surface	Cadmium	1.96E+00	7.29E-09	2.74E-08	7.79E-11		3.48E-08	0.28%
564	1	Surface	Cesium-137	6.20E-01	4.70E-10		8.33E-14	4.03E-07	4.03E-07	3.25%
564	1	Surface	Chromium	7.49E+01			1.39E-07		1.39E-07	1.12%
564	1	Surface	Nickel	2.24E+01			1.29E-10		1.29E-10	0.00%
564	1	Surface	PCB, Total	1.93E+00	3.78E-08	4.97E-07	4.11E-08		5.76E-07	4.64%
564	1	Surface	Thorium-230	5.01E+00	1.77E-08		1.61E-09	1.05E-09	2.04E-08	0.16%
564	1	Surface	Uranium-234	6.93E+00	1.92E-08		8.92E-10	4.47E-10	2.05E-08	0.17%
564	1	Surface	Uranium-235	3.87E-01	1.10E-09		4.41E-11	5.37E-08	5.49E-08	0.44%
564	1	Surface	Uranium-238	8.33E+00	3.06E-08		8.79E-10	2.43E-07	2.74E-07	2.21%
564	1	Surface	**Totals**		**8.34E-07**	**1.07E-05**	**1.88E-07**	**7.01E-07**	**1.24E-05**	
564	1	Surface	**Percent**		**6.72%**	**86.11%**	**1.51%**	**5.65%**		
567	3	Surface	Chromium	3.79E+01			7.03E-08		7.03E-08	100.00%
567	3	Surface	**Totals**				**7.03E-08**		**7.03E-08**	
567	3	Surface	**Percent**				**100.00%**			
567	4	Surface	Chromium	1.63E+01			3.03E-08		3.03E-08	46.69%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.28. ELCR for the Current Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
567	4	Surface	Uranium-238	1.05E+00	3.86E-09		1.11E-10	3.06E-08	3.45E-08	53.31%
567	4	Surface	**Totals**		**3.86E-09**		**3.04E-08**	**3.06E-08**	**6.48E-08**	
567	4	Surface	**Percent**		**5.95%**		**46.86%**	**47.19%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
1	1	Surface	Beryllium	3.89E+00	2.93E-06	2.75E-04	3.69E-09		2.78E-04	94.79%
1	1	Surface	Cadmium	1.10E+00	7.30E-08	2.75E-07	7.81E-10		3.48E-07	0.12%
1	1	Surface	Cesium-137	5.91E-01	8.00E-09		1.42E-12	6.85E-06	6.86E-06	2.34%
1	1	Surface	Chromium	1.28E+01			4.25E-07		4.25E-07	0.14%
1	1	Surface	Neptunium-237	4.02E-01	2.04E-08		1.43E-09	1.46E-06	1.48E-06	0.51%
1	1	Surface	PCB, Total	1.76E-01	6.15E-08	8.09E-07	6.69E-08		9.38E-07	0.32%
1	1	Surface	Plutonium-239/240	6.14E+00	5.30E-07		4.12E-08	5.61E-09	5.77E-07	0.20%
1	1	Surface	Thorium-230	4.40E+01	2.78E-06		2.53E-07	1.65E-07	3.20E-06	1.09%
1	1	Surface	Uranium-235	1.06E-01	5.40E-09		2.16E-10	2.63E-07	2.68E-07	0.09%
1	1	Surface	Uranium-238	1.97E+00	1.30E-07		3.72E-09	1.03E-06	1.16E-06	0.40%
1	1	Surface	**Totals**		**6.53E-06**	**2.76E-04**	**7.96E-07**	**9.78E-06**	**2.93E-04**	
1	1	Surface	**Percent**		**2.23%**	**94.16%**	**0.27%**	**3.34%**		
1	2	Surface	Beryllium	8.23E+00	6.18E-06	5.81E-04	7.79E-09		5.87E-04	76.49%
1	2	Surface	Cadmium	6.46E+00	4.29E-07	1.61E-06	4.59E-09		2.05E-06	0.27%
1	2	Surface	Chromium	2.01E+02			6.67E-06		6.67E-06	0.87%
1	2	Surface	Nickel	5.75E+01			5.90E-09		5.90E-09	0.00%
1	2	Surface	PCB, Total	3.22E+01	1.13E-05	1.48E-04	1.22E-05		1.72E-04	22.37%
1	2	Surface	**Totals**		**1.79E-05**	**7.31E-04**	**1.89E-05**		**7.67E-04**	
1	2	Surface	**Percent**		**2.33%**	**95.20%**	**2.47%**			
1	3	Surface	Chromium	1.45E+01			4.80E-07		4.80E-07	18.08%
1	3	Surface	PCB, Total	2.17E-01	7.58E-08	9.98E-07	8.25E-08		1.16E-06	43.58%
1	3	Surface	Uranium-238	1.73E+00	1.14E-07		3.26E-09	9.01E-07	1.02E-06	38.34%
1	3	Surface	**Totals**		**1.89E-07**	**9.98E-07**	**5.65E-07**	**9.01E-07**	**2.65E-06**	
1	3	Surface	**Percent**		**7.14%**	**37.61%**	**21.31%**	**33.94%**		
1	4	Surface	Beryllium	7.25E-01	5.45E-07	5.12E-05	6.87E-10		5.17E-05	90.56%
1	4	Surface	Chromium	9.30E+01			3.08E-06		3.08E-06	5.40%
1	4	Surface	Cobalt-60	2.20E-02	2.77E-10		1.59E-13	1.25E-06	1.25E-06	2.18%
1	4	Surface	Nickel	4.69E+01			4.81E-09		4.81E-09	0.01%
1	4	Surface	PCB, Total	1.30E-01	4.54E-08	5.98E-07	4.94E-08		6.93E-07	1.21%
1	4	Surface	Thorium-230	5.03E+00	3.18E-07		2.89E-08	1.88E-08	3.65E-07	0.64%
1	4	Surface	**Totals**		**9.08E-07**	**5.18E-05**	**3.17E-06**	**1.26E-06**	**5.71E-05**	
1	4	Surface	**Percent**		**1.59%**	**90.65%**	**5.54%**	**2.21%**		
1	5	Surface	Beryllium	8.30E+00	6.24E-06	5.86E-04	7.86E-09		5.92E-04	99.42%
1	5	Surface	Cadmium	1.20E+00	7.97E-08	3.00E-07	8.52E-10		3.80E-07	0.06%
1	5	Surface	Nickel	4.07E+01			4.18E-09		4.18E-09	0.00%
1	5	Surface	PCB, Total	2.70E-01	9.44E-08	1.24E-06	1.03E-07		1.44E-06	0.24%
1	5	Surface	Total PAH	9.83E-02	1.25E-07	1.53E-06	2.54E-09		1.66E-06	0.28%
1	5	Surface	**Totals**		**6.54E-06**	**5.89E-04**	**1.18E-07**		**5.96E-04**	
1	5	Surface	**Percent**		**1.10%**	**98.88%**	**0.02%**			
12	1	Surface	Arsenic	1.34E+01	3.51E-06	9.90E-06	2.28E-08		1.34E-05	2.47%
12	1	Surface	Beryllium	6.72E+00	5.05E-06	4.74E-04	6.36E-09		4.79E-04	88.09%
12	1	Surface	Cadmium	1.02E+00	6.77E-08	2.55E-07	7.24E-10		3.23E-07	0.06%
12	1	Surface	Chromium	6.33E+01			2.10E-06		2.10E-06	0.39%
12	1	Surface	Cobalt	9.16E+00			3.25E-08		3.25E-08	0.01%
12	1	Surface	Nickel	7.74E+01			7.94E-09		7.94E-09	0.00%
12	1	Surface	PCB, Total	3.90E-01	1.36E-07	1.79E-06	1.48E-07		2.08E-06	0.38%
12	1	Surface	Total PAH	1.70E-01	2.17E-07	2.65E-06	4.39E-09		2.87E-06	0.53%
12	1	Surface	Uranium-234	1.50E+01	7.42E-07		3.45E-08	1.73E-08	7.93E-07	0.15%
12	1	Surface	Uranium-235	1.53E+00	7.77E-08		3.11E-09	3.78E-06	3.86E-06	0.71%
12	1	Surface	Uranium-238	6.68E+01	4.39E-06		1.26E-07	3.48E-05	3.93E-05	7.22%
12	1	Surface	**Totals**		**1.42E-05**	**4.89E-04**	**2.48E-06**	**3.86E-05**	**5.44E-04**	
12	1	Surface	**Percent**		**2.61%**	**89.85%**	**0.46%**	**7.09%**		
13	1	Surface	PCB, Total	7.00E-01	2.45E-07	3.22E-06	2.66E-07		3.73E-06	100.00%
13	1	Surface	**Totals**		**2.45E-07**	**3.22E-06**	**2.66E-07**		**3.73E-06**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
13	1	Surface	**Percent**		**6.56%**	**86.31%**	**7.13%**			
13	4	Surface	Uranium-238	1.32E+00	8.66E-08		2.49E-09	6.87E-07	7.76E-07	100.00%
13	4	Surface	**Totals**		**8.66E-08**		**2.49E-09**	**6.87E-07**	**7.76E-07**	
13	4	Surface	**Percent**		**11.16%**		**0.32%**	**88.52%**		
13	5	Surface	Cadmium	1.20E+00	7.97E-08	3.00E-07	8.52E-10		3.80E-07	5.00%
13	5	Surface	Chromium	1.51E+01			5.00E-07		5.00E-07	6.58%
13	5	Surface	Nickel	1.17E+02			1.20E-08		1.20E-08	0.16%
13	5	Surface	PCB, Total	1.05E+00	3.67E-07	4.82E-06	3.99E-07		5.59E-06	73.50%
13	5	Surface	Total PAH	6.65E-02	8.48E-08	1.04E-06	1.72E-09		1.12E-06	14.76%
13	5	Surface	**Totals**		**5.31E-07**	**6.16E-06**	**9.14E-07**		**7.60E-06**	
13	5	Surface	**Percent**		**6.98%**	**81.00%**	**12.01%**			
13	6	Surface	Uranium-238	1.32E+00	8.64E-08		2.48E-09	6.85E-07	7.74E-07	100.00%
13	6	Surface	**Totals**		**8.64E-08**		**2.48E-09**	**6.85E-07**	**7.74E-07**	
13	6	Surface	**Percent**		**11.16%**		**0.32%**	**88.52%**		
13	9	Surface	Neptunium-237	8.90E-01	4.51E-08		3.18E-09	3.23E-06	3.28E-06	42.94%
13	9	Surface	Uranium-235	3.11E-01	1.58E-08		6.33E-10	7.71E-07	7.88E-07	10.30%
13	9	Surface	Uranium-238	6.08E+00	3.99E-07		1.15E-08	3.16E-06	3.58E-06	46.76%
13	9	Surface	**Totals**		**4.60E-07**		**1.53E-08**	**7.17E-06**	**7.65E-06**	
13	9	Surface	**Percent**		**6.01%**		**0.20%**	**93.79%**		
13	11	Surface	Cobalt-60	1.30E-02	1.64E-10		9.38E-14	7.36E-07	7.36E-07	100.00%
13	11	Surface	**Totals**		**1.64E-10**		**9.38E-14**	**7.36E-07**	**7.36E-07**	
13	11	Surface	**Percent**		**0.02%**		**0.00%**	**99.98%**		
14	1	Surface	Americium-241	1.27E+00	8.59E-08		7.18E-09	1.60E-07	2.53E-07	1.33%
14	1	Surface	Arsenic	1.10E+01	2.88E-06	8.12E-06	1.87E-08		1.10E-05	58.09%
14	1	Surface	Chromium	6.36E+01			2.11E-06		2.11E-06	11.12%
14	1	Surface	Neptunium-237	2.14E-01	1.08E-08		7.64E-10	7.78E-07	7.89E-07	4.16%
14	1	Surface	Nickel	1.40E+02			1.43E-08		1.43E-08	0.08%
14	1	Surface	PCB, Total	5.00E-01	1.75E-07	2.30E-06	1.90E-07		2.66E-06	14.05%
14	1	Surface	Technetium-99	4.06E+02	9.72E-07		1.15E-09	1.51E-07	1.12E-06	5.93%
14	1	Surface	Uranium-238	1.69E+00	1.11E-07		3.19E-09	8.80E-07	9.94E-07	5.24%
14	1	Surface	**Totals**		**4.23E-06**	**1.04E-05**	**2.34E-06**	**1.97E-06**	**1.90E-05**	
14	1	Surface	**Percent**		**22.32%**	**54.94%**	**12.36%**	**10.38%**		
14	2	Surface	Arsenic	1.45E+01	3.81E-06	1.07E-05	2.47E-08		1.46E-05	12.31%
14	2	Surface	Beryllium	7.10E-01	5.33E-07	5.01E-05	6.72E-10		5.07E-05	42.81%
14	2	Surface	Chromium	6.65E+01			2.21E-06		2.21E-06	1.86%
14	2	Surface	Neptunium-237	7.70E-01	3.90E-08		2.75E-09	2.80E-06	2.84E-06	2.40%
14	2	Surface	Nickel	6.78E+02			6.95E-08		6.95E-08	0.06%
14	2	Surface	PCB, Total	3.90E-01	1.36E-07	1.79E-06	1.48E-07		2.08E-06	1.76%
14	2	Surface	Thorium-230	5.98E+00	3.77E-07		3.44E-08	2.24E-08	4.34E-07	0.37%
14	2	Surface	Total PAH	3.38E-01	4.31E-07	5.27E-06	8.74E-09		5.71E-06	4.83%
14	2	Surface	Uranium-234	3.24E+01	1.60E-06		7.45E-08	3.73E-08	1.71E-06	1.45%
14	2	Surface	Uranium-235	2.00E+00	1.02E-07		4.07E-09	4.96E-06	5.06E-06	4.28%
14	2	Surface	Uranium-238	5.61E+01	3.68E-06		1.06E-07	2.92E-05	3.30E-05	27.88%
14	2	Surface	**Totals**		**1.07E-05**	**6.79E-05**	**2.68E-06**	**3.70E-05**	**1.18E-04**	
14	2	Surface	**Percent**		**9.05%**	**57.40%**	**2.26%**	**31.29%**		
14	3	Surface	Arsenic	1.30E+01	3.40E-06	9.59E-06	2.21E-08		1.30E-05	20.86%
14	3	Surface	Chromium	7.01E+01			2.32E-06		2.32E-06	3.73%
14	3	Surface	Nickel	5.76E+02			5.91E-08		5.91E-08	0.09%
14	3	Surface	PCB, Total	8.65E+00	3.02E-06	3.98E-05	3.29E-06		4.61E-05	73.90%
14	3	Surface	Uranium-238	1.50E+00	9.84E-08		2.83E-09	7.81E-07	8.82E-07	1.41%
14	3	Surface	**Totals**		**6.52E-06**	**4.93E-05**	**5.69E-06**	**7.81E-07**	**6.23E-05**	
14	3	Surface	**Percent**		**10.46%**	**79.16%**	**9.13%**	**1.25%**		
14	4	Surface	Arsenic	1.33E+01	3.48E-06	9.82E-06	2.26E-08		1.33E-05	6.96%
14	4	Surface	Chromium	7.20E+01			2.39E-06		2.39E-06	1.25%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
14	4	Surface	Neptunium-237	2.68E+00	1.36E-07		9.56E-09	9.74E-06	9.89E-06	5.17%
14	4	Surface	Nickel	7.31E+02			7.49E-08		7.49E-08	0.04%
14	4	Surface	PCB, Total	6.61E+00	2.31E-06	3.04E-05	2.51E-06		3.52E-05	18.40%
14	4	Surface	Thorium-230	8.33E+00	5.26E-07		4.79E-08	3.12E-08	6.05E-07	0.32%
14	4	Surface	Total PAH	2.51E-01	3.20E-07	3.91E-06	6.48E-09		4.24E-06	2.21%
14	4	Surface	Uranium-234	1.13E+02	5.58E-06		2.60E-07	1.30E-07	5.97E-06	3.12%
14	4	Surface	Uranium-235	8.00E+00	4.08E-07		1.63E-08	1.98E-05	2.03E-05	10.59%
14	4	Surface	Uranium-238	1.69E+02	1.11E-05		3.19E-07	8.80E-05	9.94E-05	51.94%
14	4	Surface	**Totals**		**2.38E-05**	**4.41E-05**	**5.65E-06**	**1.18E-04**	**1.91E-04**	
14	4	Surface	**Percent**		**12.47%**	**23.05%**	**2.96%**	**61.52%**		
14	5	Surface	Arsenic	1.31E+01	3.43E-06	9.67E-06	2.23E-08		1.31E-05	13.43%
14	5	Surface	Cadmium	3.90E+00	2.59E-07	9.74E-07	2.77E-09		1.24E-06	1.26%
14	5	Surface	Chromium	4.70E+01			1.56E-06		1.56E-06	1.59%
14	5	Surface	Cobalt	1.40E+01			4.97E-08		4.97E-08	0.05%
14	5	Surface	Neptunium-237	1.74E+00	8.81E-08		6.21E-09	6.32E-06	6.42E-06	6.57%
14	5	Surface	Nickel	4.61E+02			4.73E-08		4.73E-08	0.05%
14	5	Surface	PCB, Total	1.00E+00	3.49E-07	4.60E-06	3.80E-07		5.33E-06	5.46%
14	5	Surface	Technetium-99	1.01E+02	2.42E-07		2.87E-10	3.75E-08	2.80E-07	0.29%
14	5	Surface	Thorium-230	1.39E+01	8.77E-07		7.99E-08	5.20E-08	1.01E-06	1.03%
14	5	Surface	Total PAH	1.21E-01	1.54E-07	1.89E-06	3.13E-09		2.04E-06	2.09%
14	5	Surface	Uranium-234	5.22E+01	2.58E-06		1.20E-07	6.01E-08	2.76E-06	2.82%
14	5	Surface	Uranium-235	3.33E+00	1.70E-07		6.78E-09	8.26E-06	8.43E-06	8.63%
14	5	Surface	Uranium-238	9.42E+01	6.18E-06		1.78E-07	4.90E-05	5.54E-05	56.72%
14	5	Surface	**Totals**		**1.43E-05**	**1.71E-05**	**2.45E-06**	**6.38E-05**	**9.77E-05**	
14	5	Surface	**Percent**		**14.67%**	**17.53%**	**2.51%**	**65.29%**		
14	6	Surface	Cadmium	8.40E-01	5.58E-08	2.10E-07	5.97E-10		2.66E-07	0.30%
14	6	Surface	Chromium	4.46E+02			1.48E-05		1.48E-05	16.61%
14	6	Surface	Neptunium-237	2.65E+00	1.34E-07		9.46E-09	9.63E-06	9.78E-06	10.99%
14	6	Surface	Nickel	9.63E+02			9.88E-08		9.88E-08	0.11%
14	6	Surface	PCB, Total	5.00E+00	1.75E-06	2.30E-05	1.90E-06		2.66E-05	29.94%
14	6	Surface	Uranium-234	3.41E+01	1.68E-06		7.84E-08	3.92E-08	1.80E-06	2.02%
14	6	Surface	Uranium-235	2.27E+00	1.16E-07		4.62E-09	5.63E-06	5.75E-06	6.46%
14	6	Surface	Uranium-238	5.08E+01	3.33E-06		9.58E-08	2.64E-05	2.99E-05	33.57%
14	6	Surface	**Totals**		**7.07E-06**	**2.32E-05**	**1.70E-05**	**4.17E-05**	**8.90E-05**	
14	6	Surface	**Percent**		**7.95%**	**26.08%**	**19.07%**	**46.91%**		
14	7	Surface	Arsenic	1.13E+01	2.96E-06	8.35E-06	1.92E-08		1.13E-05	14.69%
14	7	Surface	Cadmium	2.70E+00	1.79E-07	6.74E-07	1.92E-09		8.55E-07	1.11%
14	7	Surface	Chromium	6.46E+01			2.14E-06		2.14E-06	2.77%
14	7	Surface	Neptunium-237	1.49E+00	7.54E-08		5.32E-09	5.42E-06	5.50E-06	7.12%
14	7	Surface	Nickel	1.22E+03			1.25E-07		1.25E-07	0.16%
14	7	Surface	PCB, Total	7.60E+00	2.66E-06	3.50E-05	2.89E-06		4.05E-05	52.51%
14	7	Surface	Total PAH	6.31E-02	8.05E-08	9.84E-07	1.63E-09		1.07E-06	1.38%
14	7	Surface	Uranium-234	1.28E+01	6.32E-07		2.94E-08	1.47E-08	6.76E-07	0.88%
14	7	Surface	Uranium-235	9.60E-01	4.89E-08		1.95E-09	2.38E-06	2.43E-06	3.15%
14	7	Surface	Uranium-238	2.13E+01	1.40E-06		4.02E-08	1.11E-05	1.25E-05	16.23%
14	7	Surface	**Totals**		**8.03E-06**	**4.50E-05**	**5.25E-06**	**1.89E-05**	**7.72E-05**	
14	7	Surface	**Percent**		**10.41%**	**58.29%**	**6.81%**	**24.49%**		
14	8	Surface	Arsenic	1.14E+01	2.98E-06	8.41E-06	1.94E-08		1.14E-05	23.76%
14	8	Surface	Chromium	4.60E+01			1.53E-06		1.53E-06	3.18%
14	8	Surface	Neptunium-237	8.80E-01	4.46E-08		3.14E-09	3.20E-06	3.25E-06	6.76%
14	8	Surface	Nickel	6.73E+02			6.90E-08		6.90E-08	0.14%
14	8	Surface	PCB, Total	5.00E+00	1.75E-06	2.30E-05	1.90E-06		2.66E-05	55.46%
14	8	Surface	Total PAH	6.28E-02	8.00E-08	9.78E-07	1.62E-09		1.06E-06	2.21%
14	8	Surface	Uranium-235	2.38E-01	1.21E-08		4.85E-10	5.90E-07	6.03E-07	1.25%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
14	8	Surface	Uranium-238	5.92E+00	3.89E-07		1.12E-08	3.08E-06	3.48E-06	7.25%
14	8	Surface	**Totals**		**5.26E-06**	**3.24E-05**	**3.53E-06**	**6.87E-06**	**4.80E-05**	
14	8	Surface	**Percent**		**10.94%**	**67.41%**	**7.35%**	**14.30%**		
14	9	Surface	Arsenic	1.40E+01	3.68E-06	1.04E-05	2.39E-08		1.41E-05	1.42%
14	9	Surface	Cadmium	9.40E-01	6.24E-08	2.35E-07	6.68E-10		2.98E-07	0.03%
14	9	Surface	Cesium-137	4.53E-01	6.13E-09		1.09E-12	5.25E-06	5.26E-06	0.53%
14	9	Surface	Chromium	4.64E+01			1.54E-06		1.54E-06	0.15%
14	9	Surface	Neptunium-237	1.09E+01	5.53E-07		3.90E-08	3.97E-05	4.03E-05	4.05%
14	9	Surface	Nickel	9.43E+02			9.68E-08		9.68E-08	0.01%
14	9	Surface	PCB, Total	6.84E+00	2.39E-06	3.15E-05	2.60E-06		3.65E-05	3.67%
14	9	Surface	Technetium-99	1.96E+02	4.69E-07		5.57E-10	7.28E-08	5.42E-07	0.05%
14	9	Surface	Total PAH	4.87E-01	6.22E-07	7.60E-06	1.26E-08		8.23E-06	0.83%
14	9	Surface	Uranium-234	8.32E+02	4.11E-05		1.91E-06	9.57E-07	4.40E-05	4.42%
14	9	Surface	Uranium-235	5.46E+01	2.78E-06		1.11E-07	1.35E-04	1.38E-04	13.89%
14	9	Surface	Uranium-238	1.20E+03	7.88E-05		2.26E-06	6.25E-04	7.06E-04	70.95%
14	9	Surface	**Totals**		**1.30E-04**	**4.97E-05**	**8.60E-06**	**8.06E-04**	**9.95E-04**	
14	9	Surface	**Percent**		**13.11%**	**4.99%**	**0.86%**	**81.03%**		
14	10	Surface	Arsenic	1.12E+01	2.95E-06	8.31E-06	1.91E-08		1.13E-05	10.55%
14	10	Surface	Chromium	4.19E+01			1.39E-06		1.39E-06	1.30%
14	10	Surface	Neptunium-237	2.64E+00	1.34E-07		9.42E-09	9.60E-06	9.74E-06	9.12%
14	10	Surface	Nickel	6.00E+02			6.16E-08		6.16E-08	0.06%
14	10	Surface	PCB, Total	9.38E+00	3.28E-06	4.31E-05	3.57E-06		5.00E-05	46.80%
14	10	Surface	Total PAH	2.72E-01	3.46E-07	4.23E-06	7.02E-09		4.59E-06	4.29%
14	10	Surface	Uranium-234	2.42E+01	1.19E-06		5.56E-08	2.78E-08	1.28E-06	1.20%
14	10	Surface	Uranium-235	1.76E+00	8.97E-08		3.58E-09	4.36E-06	4.46E-06	4.17%
14	10	Surface	Uranium-238	4.09E+01	2.68E-06		7.71E-08	2.13E-05	2.41E-05	22.52%
14	10	Surface	**Totals**		**1.07E-05**	**5.57E-05**	**5.19E-06**	**3.53E-05**	**1.07E-04**	
14	10	Surface	**Percent**		**9.99%**	**52.13%**	**4.85%**	**33.03%**		
15	1	Surface	Arsenic	1.24E+01	3.24E-06	9.14E-06	2.11E-08		1.24E-05	27.73%
15	1	Surface	Chromium	5.61E+01			1.86E-06		1.86E-06	4.16%
15	1	Surface	Nickel	1.33E+02			1.36E-08		1.36E-08	0.03%
15	1	Surface	PCB, Total	7.80E-02	2.73E-08	3.59E-07	2.96E-08		4.16E-07	0.93%
15	1	Surface	Total PAH	1.71E+00	2.19E-06	2.67E-05	4.43E-08		2.90E-05	64.72%
15	1	Surface	Uranium-238	1.85E+00	1.21E-07		3.49E-09	9.63E-07	1.09E-06	2.43%
15	1	Surface	**Totals**		**5.58E-06**	**3.62E-05**	**1.97E-06**	**9.63E-07**	**4.47E-05**	
15	1	Surface	**Percent**		**12.47%**	**80.97%**	**4.41%**	**2.15%**		
15	2	Surface	Arsenic	1.63E+01	4.26E-06	1.20E-05	2.77E-08		1.63E-05	25.26%
15	2	Surface	Chromium	5.90E+01			1.96E-06		1.96E-06	3.03%
15	2	Surface	Neptunium-237	1.35E-01	6.83E-09		4.82E-10	4.91E-07	4.98E-07	0.77%
15	2	Surface	Nickel	1.97E+02			2.02E-08		2.02E-08	0.03%
15	2	Surface	PCB, Total	3.30E-01	1.15E-07	1.52E-06	1.25E-07		1.76E-06	2.72%
15	2	Surface	Total PAH	2.11E+00	2.69E-06	3.29E-05	5.45E-08		3.56E-05	55.14%
15	2	Surface	Uranium-234	6.51E+00	3.21E-07		1.50E-08	7.49E-09	3.44E-07	0.53%
15	2	Surface	Uranium-235	3.80E-01	1.94E-08		7.74E-10	9.42E-07	9.62E-07	1.49%
15	2	Surface	Uranium-238	1.21E+01	7.94E-07		2.28E-08	6.30E-06	7.12E-06	11.02%
15	2	Surface	**Totals**		**8.21E-06**	**4.64E-05**	**2.22E-06**	**7.74E-06**	**6.46E-05**	
15	2	Surface	**Percent**		**12.71%**	**71.86%**	**3.44%**	**11.99%**		
15	3	Surface	Arsenic	2.60E+01	6.81E-06	1.92E-05	4.42E-08		2.61E-05	11.07%
15	3	Surface	Beryllium	7.60E-01	5.71E-07	5.36E-05	7.20E-10		5.42E-05	23.02%
15	3	Surface	Cadmium	1.19E+01	7.90E-07	2.97E-06	8.45E-09		3.77E-06	1.60%
15	3	Surface	Chromium	7.53E+01			2.50E-06		2.50E-06	1.06%
15	3	Surface	Cobalt	3.41E+01			1.21E-07		1.21E-07	0.05%
15	3	Surface	Neptunium-237	4.10E+00	2.08E-07		1.46E-08	1.49E-05	1.51E-05	6.42%
15	3	Surface	Nickel	7.57E+02			7.76E-08		7.76E-08	0.03%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
15	3	Surface	PCB, Total	6.82E+00	2.38E-06	3.14E-05	2.59E-06		3.64E-05	15.44%
15	3	Surface	Technetium-99	3.67E+02	8.79E-07		1.04E-09	1.36E-07	1.02E-06	0.43%
15	3	Surface	Thorium-230	7.23E+00	4.56E-07		4.15E-08	2.70E-08	5.25E-07	0.22%
15	3	Surface	Total PAH	1.45E+00	1.85E-06	2.27E-05	3.76E-08		2.46E-05	10.43%
15	3	Surface	Uranium-234	6.96E+01	3.44E-06		1.60E-07	8.01E-08	3.68E-06	1.56%
15	3	Surface	Uranium-235	4.21E+00	2.14E-07		8.57E-09	1.04E-05	1.07E-05	4.53%
15	3	Surface	Uranium-238	9.67E+01	6.35E-06		1.82E-07	5.03E-05	5.69E-05	24.14%
15	3	Surface	**Totals**		**2.40E-05**	**1.30E-04**	**5.79E-06**	**7.59E-05**	**2.36E-04**	
15	3	Surface	**Percent**		**10.17%**	**55.14%**	**2.46%**	**32.23%**		
15	4	Surface	Arsenic	3.47E+01	9.08E-06	2.56E-05	5.90E-08		3.48E-05	14.60%
15	4	Surface	Cadmium	1.40E+00	9.30E-08	3.50E-07	9.94E-10		4.43E-07	0.19%
15	4	Surface	Chromium	1.02E+02			3.39E-06		3.39E-06	1.42%
15	4	Surface	Neptunium-237	8.00E-01	4.05E-08		2.85E-09	2.91E-06	2.95E-06	1.24%
15	4	Surface	Nickel	1.37E+03			1.41E-07		1.41E-07	0.06%
15	4	Surface	PCB, Total	2.67E+01	9.34E-06	1.23E-04	1.02E-05		1.42E-04	59.82%
15	4	Surface	Total PAH	2.44E+00	3.12E-06	3.81E-05	6.32E-08		4.13E-05	17.35%
15	4	Surface	Uranium-234	1.07E+01	5.28E-07		2.46E-08	1.23E-08	5.65E-07	0.24%
15	4	Surface	Uranium-235	4.30E-01	2.19E-08		8.76E-10	1.07E-06	1.09E-06	0.46%
15	4	Surface	Uranium-238	1.87E+01	1.23E-06		3.53E-08	9.73E-06	1.10E-05	4.62%
15	4	Surface	**Totals**		**2.34E-05**	**1.87E-04**	**1.39E-05**	**1.37E-05**	**2.38E-04**	
15	4	Surface	**Percent**		**9.85%**	**78.55%**	**5.83%**	**5.77%**		
15	5	Surface	Arsenic	1.28E+01	3.35E-06	9.45E-06	2.18E-08		1.28E-05	7.65%
15	5	Surface	Cadmium	1.50E+00	9.96E-08	3.74E-07	1.07E-09		4.75E-07	0.28%
15	5	Surface	Chromium	4.28E+01			1.42E-06		1.42E-06	0.85%
15	5	Surface	Neptunium-237	6.90E-01	3.49E-08		2.46E-09	2.51E-06	2.55E-06	1.52%
15	5	Surface	Nickel	5.10E+02			5.23E-08		5.23E-08	0.03%
15	5	Surface	PCB, Total	2.51E+01	8.78E-06	1.16E-04	9.55E-06		1.34E-04	79.86%
15	5	Surface	Technetium-99	1.07E+02	2.56E-07		3.04E-10	3.98E-08	2.96E-07	0.18%
15	5	Surface	Total PAH	5.11E-01	6.51E-07	7.96E-06	1.32E-08		8.62E-06	5.14%
15	5	Surface	Uranium-234	5.83E+00	2.88E-07		1.34E-08	6.71E-09	3.08E-07	0.18%
15	5	Surface	Uranium-235	4.60E-01	2.34E-08		9.37E-10	1.14E-06	1.16E-06	0.69%
15	5	Surface	Uranium-238	1.03E+01	6.76E-07		1.94E-08	5.36E-06	6.06E-06	3.61%
15	5	Surface	**Totals**		**1.42E-05**	**1.33E-04**	**1.11E-05**	**9.06E-06**	**1.68E-04**	
15	5	Surface	**Percent**		**8.45%**	**79.53%**	**6.62%**	**5.40%**		
15	6	Surface	Arsenic	1.24E+01	3.26E-06	9.19E-06	2.12E-08		1.25E-05	14.08%
15	6	Surface	Cadmium	1.50E+00	9.96E-08	3.74E-07	1.07E-09		4.75E-07	0.54%
15	6	Surface	Chromium	5.80E+01			1.92E-06		1.92E-06	2.17%
15	6	Surface	Cobalt	1.62E+01			5.75E-08		5.75E-08	0.06%
15	6	Surface	Neptunium-237	6.40E-01	3.24E-08		2.28E-09	2.33E-06	2.36E-06	2.67%
15	6	Surface	Nickel	3.24E+02			3.32E-08		3.32E-08	0.04%
15	6	Surface	PCB, Total	6.17E+00	2.15E-06	2.84E-05	2.34E-06		3.28E-05	37.10%
15	6	Surface	Total PAH	1.62E+00	2.07E-06	2.53E-05	4.19E-08		2.74E-05	30.97%
15	6	Surface	Uranium-234	8.74E+00	4.32E-07		2.01E-08	1.01E-08	4.62E-07	0.52%
15	6	Surface	Uranium-235	5.70E-01	2.90E-08		1.16E-09	1.41E-06	1.44E-06	1.63%
15	6	Surface	Uranium-238	1.54E+01	1.01E-06		2.90E-08	8.02E-06	9.06E-06	10.23%
15	6	Surface	**Totals**		**9.09E-06**	**6.32E-05**	**4.47E-06**	**1.18E-05**	**8.85E-05**	
15	6	Surface	**Percent**		**10.26%**	**71.40%**	**5.05%**	**13.29%**		
15	7	Surface	Arsenic	1.61E+01	4.21E-06	1.19E-05	2.74E-08		1.61E-05	9.74%
15	7	Surface	Cadmium	1.00E+00	6.64E-08	2.50E-07	7.10E-10		3.17E-07	0.19%
15	7	Surface	Chromium	7.87E+01			2.61E-06		2.61E-06	1.58%
15	7	Surface	Neptunium-237	2.23E-01	1.13E-08		7.96E-10	8.11E-07	8.23E-07	0.50%
15	7	Surface	Nickel	5.59E+02			5.73E-08		5.73E-08	0.03%
15	7	Surface	PCB, Total	2.57E+01	8.97E-06	1.18E-04	9.76E-06		1.37E-04	82.59%
15	7	Surface	Total PAH	1.59E-01	2.03E-07	2.48E-06	4.10E-09		2.68E-06	1.62%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
15	7	Surface	Uranium-234	6.49E+00	3.20E-07		1.49E-08	7.47E-09	3.43E-07	0.21%
15	7	Surface	Uranium-235	4.50E-01	2.29E-08		9.16E-10	1.12E-06	1.14E-06	0.69%
15	7	Surface	Uranium-238	8.05E+00	5.28E-07		1.52E-08	4.19E-06	4.73E-06	2.86%
15	7	Surface	**Totals**		**1.43E-05**	**1.33E-04**	**1.25E-05**	**6.12E-06**	**1.66E-04**	
15	7	Surface	**Percent**		**8.66%**	**80.11%**	**7.54%**	**3.70%**		
15	8	Surface	Arsenic	1.17E+01	3.05E-06	8.61E-06	1.98E-08		1.17E-05	22.27%
15	8	Surface	Chromium	7.74E+01			2.56E-06		2.56E-06	4.89%
15	8	Surface	Neptunium-237	3.65E-01	1.85E-08		1.30E-09	1.33E-06	1.35E-06	2.57%
15	8	Surface	Nickel	1.82E+02			1.86E-08		1.86E-08	0.04%
15	8	Surface	PCB, Total	4.90E+00	1.71E-06	2.25E-05	1.86E-06		2.61E-05	49.77%
15	8	Surface	Total PAH	3.59E-01	4.58E-07	5.59E-06	9.27E-09		6.06E-06	11.55%
15	8	Surface	Uranium-235	3.04E-01	1.55E-08		6.19E-10	7.54E-07	7.70E-07	1.47%
15	8	Surface	Uranium-238	6.64E+00	4.36E-07		1.25E-08	3.46E-06	3.90E-06	7.44%
15	8	Surface	**Totals**		**5.69E-06**	**3.67E-05**	**4.49E-06**	**5.54E-06**	**5.25E-05**	
15	8	Surface	**Percent**		**10.85%**	**70.03%**	**8.56%**	**10.56%**		
15	9	Surface	Arsenic	1.10E+01	2.89E-06	8.16E-06	1.88E-08		1.11E-05	43.74%
15	9	Surface	Chromium	9.56E+01			3.17E-06		3.17E-06	12.52%
15	9	Surface	Neptunium-237	1.28E-01	6.48E-09		4.57E-10	4.65E-07	4.72E-07	1.87%
15	9	Surface	Nickel	1.49E+02			1.53E-08		1.53E-08	0.06%
15	9	Surface	PCB, Total	3.30E-01	1.15E-07	1.52E-06	1.25E-07		1.76E-06	6.95%
15	9	Surface	Total PAH	2.38E-01	3.04E-07	3.71E-06	6.16E-09		4.02E-06	15.90%
15	9	Surface	Uranium-235	2.42E-01	1.23E-08		4.93E-10	6.00E-07	6.13E-07	2.42%
15	9	Surface	Uranium-238	7.12E+00	4.67E-07		1.34E-08	3.71E-06	4.19E-06	16.54%
15	9	Surface	**Totals**		**3.80E-06**	**1.34E-05**	**3.35E-06**	**4.77E-06**	**2.53E-05**	
15	9	Surface	**Percent**		**15.01%**	**52.91%**	**13.23%**	**18.85%**		
15	10	Surface	Chromium	3.55E+01			1.18E-06		1.18E-06	35.01%
15	10	Surface	Nickel	1.46E+02			1.49E-08		1.49E-08	0.44%
15	10	Surface	Total PAH	1.28E-01	1.64E-07	2.00E-06	3.32E-09		2.17E-06	64.55%
15	10	Surface	**Totals**		**1.64E-07**	**2.00E-06**	**1.19E-06**		**3.36E-06**	
15	10	Surface	**Percent**		**4.88%**	**59.57%**	**35.55%**			
16	1	Surface	Cesium-137	1.10E+00	1.49E-08		2.64E-12	1.28E-05	1.28E-05	92.94%
16	1	Surface	PCB, Total	9.60E-02	3.35E-08	4.41E-07	3.65E-08		5.12E-07	3.72%
16	1	Surface	Total PAH	2.72E-02	3.47E-08	4.24E-07	7.03E-10		4.59E-07	3.34%
16	1	Surface	**Totals**		**8.31E-08**	**8.65E-07**	**3.72E-08**	**1.28E-05**	**1.37E-05**	
16	1	Surface	**Percent**		**0.60%**	**6.30%**	**0.27%**	**92.83%**		
16	2	Surface	Beryllium	8.40E-01	6.31E-07	5.93E-05	7.95E-10		5.99E-05	98.88%
16	2	Surface	Chromium	2.04E+01			6.76E-07		6.76E-07	1.12%
16	2	Surface	Nickel	2.16E+01			2.22E-09		2.22E-09	0.00%
16	2	Surface	**Totals**		**6.31E-07**	**5.93E-05**	**6.79E-07**		**6.06E-05**	
16	2	Surface	**Percent**		**1.04%**	**97.84%**	**1.12%**			
16	3	Surface	PCB, Total	9.49E-01	3.32E-07	4.36E-06	3.61E-07		5.06E-06	100.00%
16	3	Surface	**Totals**		**3.32E-07**	**4.36E-06**	**3.61E-07**		**5.06E-06**	
16	3	Surface	**Percent**		**6.56%**	**86.31%**	**7.13%**			
16	4	Surface	Cesium-137	3.66E+01	4.95E-07		8.78E-11	4.24E-04	4.25E-04	61.58%
16	4	Surface	Cobalt-60	8.53E-03	1.07E-10		6.16E-14	4.83E-07	4.83E-07	0.07%
16	4	Surface	Neptunium-237	7.12E+00	3.60E-07		2.54E-08	2.59E-05	2.63E-05	3.81%
16	4	Surface	PCB, Total	3.20E-01	1.12E-07	1.47E-06	1.22E-07		1.71E-06	0.25%
16	4	Surface	Technetium-99	2.96E+02	7.08E-07		8.41E-10	1.10E-07	8.19E-07	0.12%
16	4	Surface	Thorium-230	5.29E+00	3.34E-07		3.04E-08	1.98E-08	3.84E-07	0.06%
16	4	Surface	Total PAH	2.93E+00	3.73E-06	4.56E-05	7.57E-08		4.94E-05	7.17%
16	4	Surface	Uranium-234	1.19E+02	5.88E-06		2.74E-07	1.37E-07	6.29E-06	0.91%
16	4	Surface	Uranium-235	8.23E+00	4.19E-07		1.68E-08	2.04E-05	2.08E-05	3.02%
16	4	Surface	Uranium-238	2.70E+02	1.77E-05		5.09E-07	1.41E-04	1.59E-04	23.02%
16	4	Surface	**Totals**		**2.98E-05**	**4.71E-05**	**1.05E-06**	**6.12E-04**	**6.90E-04**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
16	4	Surface	**Percent**		**4.31%**	**6.83%**	**0.15%**	**88.70%**		
19	1	Surface	Beryllium	1.10E+00	8.26E-07	7.77E-05	1.04E-09		7.85E-05	46.96%
19	1	Surface	Cadmium	1.20E+00	7.97E-08	3.00E-07	8.52E-10		3.80E-07	0.23%
19	1	Surface	Total PAH	5.23E+00	6.67E-06	8.15E-05	1.35E-07		8.83E-05	52.81%
19	1	Surface	**Totals**		**7.57E-06**	**1.59E-04**	**1.37E-07**		**1.67E-04**	
19	1	Surface	**Percent**		**4.53%**	**95.39%**	**0.08%**			
26	1	Surface	Arsenic	1.29E+01	3.38E-06	9.52E-06	2.19E-08		1.29E-05	10.06%
26	1	Surface	Beryllium	6.69E-01	5.03E-07	4.72E-05	6.33E-10		4.77E-05	37.16%
26	1	Surface	Cadmium	1.99E+00	1.32E-07	4.98E-07	1.42E-09		6.31E-07	0.49%
26	1	Surface	Cesium-137	3.16E+00	4.28E-08		7.59E-12	3.67E-05	3.67E-05	28.60%
26	1	Surface	Chromium	1.90E+01			6.30E-07		6.30E-07	0.49%
26	1	Surface	Cobalt-60	1.93E-03	2.43E-11		1.39E-14	1.09E-07	1.09E-07	0.09%
26	1	Surface	Neptunium-237	2.61E-01	1.32E-08		9.31E-10	9.49E-07	9.63E-07	0.75%
26	1	Surface	Nickel	1.76E+01			1.80E-09		1.80E-09	0.00%
26	1	Surface	PCB, Total	9.33E-01	3.26E-07	4.29E-06	3.55E-07		4.97E-06	3.87%
26	1	Surface	Plutonium-239/240	4.04E+00	3.48E-07		2.71E-08	3.69E-09	3.79E-07	0.29%
26	1	Surface	Thorium-230	3.82E+00	2.41E-07		2.19E-08	1.43E-08	2.77E-07	0.22%
26	1	Surface	Total PAH	5.00E-02	6.38E-08	7.79E-07	1.29E-09		8.44E-07	0.66%
26	1	Surface	Uranium-234	4.67E+00	2.30E-07		1.07E-08	5.37E-09	2.46E-07	0.19%
26	1	Surface	Uranium-235	6.41E-01	3.27E-08		1.31E-09	1.59E-06	1.62E-06	1.26%
26	1	Surface	Uranium-238	3.47E+01	2.28E-06		6.54E-08	1.80E-05	2.04E-05	15.87%
26	1	Surface	**Totals**		**7.58E-06**	**6.23E-05**	**1.14E-06**	**5.74E-05**	**1.28E-04**	
26	1	Surface	**Percent**		**5.90%**	**48.51%**	**0.89%**	**44.70%**		
26	2	Surface	Arsenic	4.72E+01	1.24E-05	3.49E-05	8.04E-08		4.73E-05	5.50%
26	2	Surface	Beryllium	9.69E+00	7.28E-06	6.84E-04	9.18E-09		6.92E-04	80.28%
26	2	Surface	Cadmium	2.38E+00	1.58E-07	5.94E-07	1.69E-09		7.54E-07	0.09%
26	2	Surface	Cesium-137	5.92E+00	8.01E-08		1.42E-11	6.87E-05	6.88E-05	7.98%
26	2	Surface	Chromium	3.90E+01			1.29E-06		1.29E-06	0.15%
26	2	Surface	Cobalt	5.20E+01			1.85E-07		1.85E-07	0.02%
26	2	Surface	Neptunium-237	7.89E-01	3.99E-08		2.82E-09	2.87E-06	2.91E-06	0.34%
26	2	Surface	Nickel	1.13E+02			1.16E-08		1.16E-08	0.00%
26	2	Surface	PCB, Total	2.23E+00	7.79E-07	1.03E-05	8.47E-07		1.19E-05	1.38%
26	2	Surface	Thorium-230	1.51E+01	9.55E-07		8.69E-08	5.66E-08	1.10E-06	0.13%
26	2	Surface	Uranium-234	1.91E+01	9.42E-07		4.38E-08	2.19E-08	1.01E-06	0.12%
26	2	Surface	Uranium-235	1.71E+00	8.70E-08		3.48E-09	4.23E-06	4.32E-06	0.50%
26	2	Surface	Uranium-238	5.14E+01	3.38E-06		9.70E-08	2.68E-05	3.02E-05	3.51%
26	2	Surface	**Totals**		**2.61E-05**	**7.30E-04**	**2.66E-06**	**1.03E-04**	**8.61E-04**	
26	2	Surface	**Percent**		**3.03%**	**84.75%**	**0.31%**	**11.92%**		
26	3	Surface	Arsenic	5.09E+01	1.33E-05	3.76E-05	8.66E-08		5.10E-05	16.09%
26	3	Surface	Beryllium	2.54E+00	1.90E-06	1.79E-04	2.40E-09		1.81E-04	57.02%
26	3	Surface	Cadmium	2.34E+00	1.55E-07	5.84E-07	1.66E-09		7.41E-07	0.23%
26	3	Surface	Cesium-137	7.48E-01	1.01E-08		1.79E-12	8.68E-06	8.69E-06	2.74%
26	3	Surface	Chromium	3.25E+01			1.08E-06		1.08E-06	0.34%
26	3	Surface	Cobalt	1.21E+01			4.30E-08		4.30E-08	0.01%
26	3	Surface	Naphthalene	1.32E+00			5.90E-07		5.90E-07	0.19%
26	3	Surface	Neptunium-237	7.53E-01	3.81E-08		2.69E-09	2.74E-06	2.78E-06	0.88%
26	3	Surface	Nickel	2.97E+01			3.05E-09		3.05E-09	0.00%
26	3	Surface	PCB, Total	2.52E+00	8.80E-07	1.16E-05	9.57E-07		1.34E-05	4.23%
26	3	Surface	Technetium-99	6.48E+01	1.55E-07		1.84E-10	2.41E-08	1.79E-07	0.06%
26	3	Surface	Thorium-230	7.10E+00	4.48E-07		4.08E-08	2.65E-08	5.15E-07	0.16%
26	3	Surface	Total PAH	1.19E+00	1.52E-06	1.85E-05	3.07E-08		2.01E-05	6.33%
26	3	Surface	Uranium-234	4.63E+01	2.29E-06		1.07E-07	5.33E-08	2.45E-06	0.77%
26	3	Surface	Uranium-235	1.69E+00	8.61E-08		3.44E-09	4.19E-06	4.28E-06	1.35%
26	3	Surface	Uranium-238	5.19E+01	3.40E-06		9.77E-08	2.70E-05	3.05E-05	9.61%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
26	3	Surface	**Totals**		**2.42E-05**	**2.47E-04**	**3.04E-06**	**4.27E-05**	**3.17E-04**	
26	3	Surface	**Percent**		**7.64%**	**77.94%**	**0.96%**	**13.46%**		
26	4	Surface	Americium-241	1.27E+00	8.63E-08		7.21E-09	1.60E-07	2.54E-07	0.07%
26	4	Surface	Beryllium	6.91E-01	5.19E-07	4.88E-05	6.54E-10		4.93E-05	13.35%
26	4	Surface	Cadmium	1.99E+00	1.32E-07	4.97E-07	1.41E-09		6.31E-07	0.17%
26	4	Surface	Cesium-137	6.38E-01	8.63E-09		1.53E-12	7.40E-06	7.41E-06	2.01%
26	4	Surface	Chromium	8.57E+01			2.84E-06		2.84E-06	0.77%
26	4	Surface	Cobalt-60	1.21E-03	1.52E-11		8.73E-15	6.85E-08	6.85E-08	0.02%
26	4	Surface	Neptunium-237	1.36E+01	6.87E-07		4.84E-08	4.93E-05	5.01E-05	13.56%
26	4	Surface	Nickel	7.54E+01			7.74E-09		7.74E-09	0.00%
26	4	Surface	PCB, Total	5.54E-01	1.94E-07	2.55E-06	2.11E-07		2.95E-06	0.80%
26	4	Surface	Plutonium-239/240	5.00E+00	4.32E-07		3.36E-08	4.57E-09	4.70E-07	0.13%
26	4	Surface	Technetium-99	5.97E+02	1.43E-06		1.70E-09	2.22E-07	1.65E-06	0.45%
26	4	Surface	Thorium-230	3.26E+01	2.06E-06		1.87E-07	1.22E-07	2.37E-06	0.64%
26	4	Surface	Total PAH	2.83E-02	3.61E-08	4.41E-07	7.32E-10		4.78E-07	0.13%
26	4	Surface	Uranium-234	1.54E+02	7.62E-06		3.55E-07	1.78E-07	8.16E-06	2.21%
26	4	Surface	Uranium-235	1.08E+01	5.50E-07		2.20E-08	2.68E-05	2.74E-05	7.41%
26	4	Surface	Uranium-238	3.66E+02	2.40E-05		6.90E-07	1.90E-04	2.15E-04	58.29%
26	4	Surface	**Totals**		**3.78E-05**	**5.23E-05**	**4.41E-06**	**2.75E-04**	**3.69E-04**	
26	4	Surface	**Percent**		**10.23%**	**14.16%**	**1.19%**	**74.42%**		
47	1	Surface	Arsenic	4.52E+01	1.18E-05	3.34E-05	7.69E-08		4.53E-05	4.41%
47	1	Surface	Beryllium	7.00E-01	5.26E-07	4.94E-05	6.63E-10		4.99E-05	4.86%
47	1	Surface	Cadmium	4.25E+00	2.82E-07	1.06E-06	3.02E-09		1.35E-06	0.13%
47	1	Surface	Chromium	5.39E+01			1.79E-06		1.79E-06	0.17%
47	1	Surface	Cobalt	1.43E+01			5.08E-08		5.08E-08	0.00%
47	1	Surface	Naphthalene	1.90E+00			8.50E-07		8.50E-07	0.08%
47	1	Surface	Neptunium-237	1.15E-01	5.82E-09		4.10E-10	4.18E-07	4.24E-07	0.04%
47	1	Surface	Nickel	8.25E+01			8.46E-09		8.46E-09	0.00%
47	1	Surface	PCB, Total	9.60E-01	3.35E-07	4.41E-06	3.65E-07		5.12E-06	0.50%
47	1	Surface	Plutonium-239/240	4.11E+00	3.54E-07		2.76E-08	3.75E-09	3.86E-07	0.04%
47	1	Surface	Thorium-230	4.11E+01	2.59E-06		2.36E-07	1.54E-07	2.98E-06	0.29%
47	1	Surface	Total PAH	5.41E+01	6.90E-05	8.43E-04	1.40E-06		9.13E-04	88.86%
47	1	Surface	Uranium-234	6.85E+00	3.38E-07		1.57E-08	7.88E-09	3.62E-07	0.04%
47	1	Surface	Uranium-235	5.00E-01	2.55E-08		1.02E-09	1.24E-06	1.27E-06	0.12%
47	1	Surface	Uranium-238	7.93E+00	5.20E-07		1.49E-08	4.13E-06	4.66E-06	0.45%
47	1	Surface	**Totals**		**8.58E-05**	**9.31E-04**	**4.83E-06**	**5.95E-06**	**1.03E-03**	
47	1	Surface	**Percent**		**8.35%**	**90.60%**	**0.47%**	**0.58%**		
74	1	Surface	PCB, Total	2.97E+00	1.04E-06	1.37E-05	1.13E-06		1.59E-05	17.18%
74	1	Surface	Total PAH	3.16E+00	4.03E-06	4.93E-05	8.17E-08		5.34E-05	57.86%
74	1	Surface	Uranium-234	7.55E+00	3.73E-07		1.74E-08	8.69E-09	3.99E-07	0.43%
74	1	Surface	Uranium-238	3.85E+01	2.53E-06		7.26E-08	2.00E-05	2.26E-05	24.53%
74	1	Surface	**Totals**		**7.97E-06**	**6.30E-05**	**1.30E-06**	**2.00E-05**	**9.23E-05**	
74	1	Surface	**Percent**		**8.64%**	**68.22%**	**1.41%**	**21.73%**		
75	1	Surface	Cadmium	1.10E+00	7.30E-08	2.75E-07	7.81E-10		3.48E-07	4.53%
75	1	Surface	Chromium	7.17E+01			2.38E-06		2.38E-06	30.88%
75	1	Surface	Nickel	8.87E+01			9.10E-09		9.10E-09	0.12%
75	1	Surface	PCB, Total	2.30E-01	8.04E-08	1.06E-06	8.74E-08		1.23E-06	15.92%
75	1	Surface	Total PAH	2.21E-01	2.82E-07	3.45E-06	5.72E-09		3.74E-06	48.56%
75	1	Surface	**Totals**		**4.36E-07**	**4.78E-06**	**2.48E-06**		**7.70E-06**	
75	1	Surface	**Percent**		**5.66%**	**62.13%**	**32.21%**			
76	1	Surface	PCB, Total	2.60E-01	9.09E-08	1.20E-06	9.88E-08		1.39E-06	4.34%
76	1	Surface	Total PAH	1.76E+00	2.24E-06	2.74E-05	4.54E-08		2.97E-05	92.99%
76	1	Surface	Uranium-238	1.45E+00	9.52E-08		2.73E-09	7.55E-07	8.53E-07	2.67%
76	1	Surface	**Totals**		**2.43E-06**	**2.86E-05**	**1.47E-07**	**7.55E-07**	**3.19E-05**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
76	1	Surface	**Percent**		**7.61%**	**89.57%**	**0.46%**	**2.36%**		
78	1	Surface	Cadmium	2.36E+00	1.57E-07	5.89E-07	1.68E-09		7.48E-07	0.10%
78	1	Surface	Chromium	3.75E+01			1.24E-06		1.24E-06	0.17%
78	1	Surface	Cobalt-60	5.91E-03	7.44E-11		4.27E-14	3.35E-07	3.35E-07	0.05%
78	1	Surface	Naphthalene	1.60E+01			7.15E-06		7.15E-06	0.97%
78	1	Surface	Nickel	2.15E+01			2.21E-09		2.21E-09	0.00%
78	1	Surface	PCB, Total	1.20E+01	4.19E-06	5.52E-05	4.56E-06		6.39E-05	8.67%
78	1	Surface	Total PAH	3.91E+01	4.99E-05	6.10E-04	1.01E-06		6.61E-04	89.54%
78	1	Surface	Uranium-235	2.64E-01	1.34E-08		5.38E-10	6.55E-07	6.69E-07	0.09%
78	1	Surface	Uranium-238	5.29E+00	3.47E-07		9.97E-09	2.75E-06	3.11E-06	0.42%
78	1	Surface	**Totals**		**5.46E-05**	**6.66E-04**	**1.40E-05**	**3.74E-06**	**7.38E-04**	
78	1	Surface	**Percent**		**7.40%**	**90.20%**	**1.90%**	**0.51%**		
80	1	Surface	Americium-241	6.40E+00	4.34E-07		3.63E-08	8.07E-07	1.28E-06	0.09%
80	1	Surface	Beryllium	7.80E-01	5.86E-07	5.51E-05	7.39E-10		5.56E-05	4.08%
80	1	Surface	Chromium	1.65E+02			5.47E-06		5.47E-06	0.40%
80	1	Surface	Neptunium-237	5.05E-01	2.56E-08		1.80E-09	1.84E-06	1.86E-06	0.14%
80	1	Surface	PCB, Total	1.46E+01	5.11E-06	6.72E-05	5.56E-06		7.79E-05	5.72%
80	1	Surface	Thorium-230	4.40E+00	2.78E-07		2.53E-08	1.65E-08	3.19E-07	0.02%
80	1	Surface	Total PAH	1.42E-01	1.81E-07	2.21E-06	3.66E-09		2.39E-06	0.18%
80	1	Surface	Uranium-234	2.29E+02	1.13E-05		5.26E-07	2.64E-07	1.21E-05	0.89%
80	1	Surface	Uranium-235	3.00E+01	1.53E-06		6.11E-08	7.44E-05	7.60E-05	5.58%
80	1	Surface	Uranium-238	1.92E+03	1.26E-04		3.62E-06	1.00E-03	1.13E-03	82.90%
80	1	Surface	**Totals**		**1.46E-04**	**1.25E-04**	**1.53E-05**	**1.08E-03**	**1.36E-03**	
80	1	Surface	**Percent**		**10.68%**	**9.14%**	**1.12%**	**79.06%**		
81	1	Surface	Arsenic	1.03E+01	2.69E-06	7.58E-06	1.74E-08		1.03E-05	1.11%
81	1	Surface	Beryllium	7.57E-01	5.69E-07	5.34E-05	7.17E-10		5.40E-05	5.81%
81	1	Surface	Chromium	8.62E+01			2.86E-06		2.86E-06	0.31%
81	1	Surface	Nickel	7.29E+01			7.48E-09		7.48E-09	0.00%
81	1	Surface	PCB, Total	1.60E+02	5.58E-05	7.35E-04	6.07E-05		8.51E-04	91.62%
81	1	Surface	Total PAH	5.53E-01	7.05E-07	8.62E-06	1.43E-08		9.34E-06	1.00%
81	1	Surface	Uranium-238	2.29E+00	1.50E-07		4.31E-09	1.19E-06	1.34E-06	0.14%
81	1	Surface	**Totals**		**6.00E-05**	**8.05E-04**	**6.36E-05**	**1.19E-06**	**9.29E-04**	
81	1	Surface	**Percent**		**6.45%**	**86.57%**	**6.85%**	**0.13%**		
99	1	Surface	Chromium	5.51E+01			1.83E-06		1.83E-06	59.62%
99	1	Surface	Cobalt-60	1.19E-02	1.50E-10		8.59E-14	6.74E-07	6.74E-07	22.00%
99	1	Surface	Nickel	7.02E+01			7.20E-09		7.20E-09	0.24%
99	1	Surface	Uranium-238	9.45E-01	6.20E-08		1.78E-09	4.92E-07	5.56E-07	18.14%
99	1	Surface	**Totals**		**6.22E-08**		**1.84E-06**	**1.17E-06**	**3.06E-06**	
99	1	Surface	**Percent**		**2.03%**		**59.91%**	**38.06%**		
138	1	Surface	Arsenic	1.06E+01	2.78E-06	7.85E-06	1.81E-08		1.07E-05	57.67%
138	1	Surface	Cadmium	5.42E+00	3.60E-07	1.35E-06	3.85E-09		1.72E-06	9.30%
138	1	Surface	Chromium	5.39E+01			1.78E-06		1.78E-06	9.66%
138	1	Surface	Nickel	7.04E+01			7.22E-09		7.22E-09	0.04%
138	1	Surface	PCB, Total	5.00E-01	1.75E-07	2.30E-06	1.90E-07		2.66E-06	14.43%
138	1	Surface	Total PAH	9.74E-02	1.24E-07	1.52E-06	2.52E-09		1.65E-06	8.91%
138	1	Surface	**Totals**		**3.44E-06**	**1.30E-05**	**2.01E-06**		**1.85E-05**	
138	1	Surface	**Percent**		**18.64%**	**70.50%**	**10.86%**			
138	2	Surface	Nickel	7.99E+01			8.19E-09		8.19E-09	0.71%
138	2	Surface	PCB, Total	9.20E-02	3.21E-08	4.23E-07	3.50E-08		4.90E-07	42.74%
138	2	Surface	Total PAH	3.84E-02	4.90E-08	5.99E-07	9.92E-10		6.49E-07	56.54%
138	2	Surface	**Totals**		**8.11E-08**	**1.02E-06**	**4.41E-08**		**1.15E-06**	
138	2	Surface	**Percent**		**7.07%**	**89.08%**	**3.85%**			
153	1	Surface	PCB, Total	5.09E-01	1.78E-07	2.34E-06	1.93E-07		2.71E-06	64.88%
153	1	Surface	Total PAH	8.69E-02	1.11E-07	1.35E-06	2.25E-09		1.47E-06	35.12%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
153	1	Surface	**Totals**		**2.89E-07**	**3.70E-06**	**1.96E-07**		**4.18E-06**	
153	1	Surface	**Percent**		**6.91%**	**88.41%**	**4.68%**			
154	1	Surface	Arsenic	1.52E+01	3.98E-06	1.12E-05	2.58E-08		1.52E-05	28.67%
154	1	Surface	Chromium	4.28E+01			1.42E-06		1.42E-06	2.67%
154	1	Surface	Nickel	9.89E+01			1.01E-08		1.01E-08	0.02%
154	1	Surface	PCB, Total	3.20E+00	1.12E-06	1.47E-05	1.22E-06		1.71E-05	32.13%
154	1	Surface	Total PAH	1.04E+00	1.33E-06	1.62E-05	2.69E-08		1.76E-05	33.11%
154	1	Surface	Uranium-238	3.06E+00	2.01E-07		5.77E-09	1.59E-06	1.80E-06	3.39%
154	1	Surface	**Totals**		**6.62E-06**	**4.21E-05**	**2.70E-06**	**1.59E-06**	**5.31E-05**	
154	1	Surface	**Percent**		**12.48%**	**79.43%**	**5.09%**	**3.00%**		
154	2	Surface	PCB, Total	4.00E-01	1.40E-07	1.84E-06	1.52E-07		2.13E-06	100.00%
154	2	Surface	**Totals**		**1.40E-07**	**1.84E-06**	**1.52E-07**		**2.13E-06**	
154	2	Surface	**Percent**		**6.56%**	**86.31%**	**7.13%**			
155	1	Surface	Chromium	3.47E+01			1.15E-06		1.15E-06	2.28%
155	1	Surface	Neptunium-237	1.03E-01	5.21E-09		3.68E-10	3.74E-07	3.80E-07	0.75%
155	1	Surface	Nickel	7.65E+01			7.85E-09		7.85E-09	0.02%
155	1	Surface	PCB, Total	9.20E+00	3.21E-06	4.23E-05	3.50E-06		4.90E-05	96.96%
155	1	Surface	**Totals**		**3.22E-06**	**4.23E-05**	**4.65E-06**	**3.74E-07**	**5.05E-05**	
155	1	Surface	**Percent**		**6.37%**	**83.68%**	**9.21%**	**0.74%**		
156	1	Surface	Chromium	4.90E+01			1.62E-06		1.62E-06	27.48%
156	1	Surface	Nickel	6.16E+01			6.32E-09		6.32E-09	0.11%
156	1	Surface	PCB, Total	3.00E-01	1.05E-07	1.38E-06	1.14E-07		1.60E-06	27.04%
156	1	Surface	Total PAH	8.26E-02	1.05E-07	1.29E-06	2.13E-09		1.40E-06	23.59%
156	1	Surface	Uranium-238	2.19E+00	1.44E-07		4.13E-09	1.14E-06	1.29E-06	21.78%
156	1	Surface	**Totals**		**3.54E-07**	**2.67E-06**	**1.75E-06**	**1.14E-06**	**5.91E-06**	
156	1	Surface	**Percent**		**5.99%**	**45.11%**	**29.62%**	**19.28%**		
158	1	Surface	Arsenic	1.01E+01	2.65E-06	7.48E-06	1.72E-08		1.01E-05	48.10%
158	1	Surface	Chromium	6.07E+01			2.01E-06		2.01E-06	9.54%
158	1	Surface	Cobalt	1.62E+01			5.76E-08		5.76E-08	0.27%
158	1	Surface	Nickel	7.28E+01			7.47E-09		7.47E-09	0.04%
158	1	Surface	Total PAH	3.69E-01	4.71E-07	5.75E-06	9.53E-09		6.23E-06	29.53%
158	1	Surface	Uranium-235	1.63E-01	8.30E-09		3.32E-10	4.04E-07	4.13E-07	1.96%
158	1	Surface	Uranium-238	3.79E+00	2.49E-07		7.14E-09	1.97E-06	2.23E-06	10.56%
158	1	Surface	**Totals**		**3.38E-06**	**1.32E-05**	**2.11E-06**	**2.38E-06**	**2.11E-05**	
158	1	Surface	**Percent**		**16.02%**	**62.71%**	**10.01%**	**11.27%**		
160	1	Surface	Total PAH	5.29E-02	6.75E-08	8.25E-07	1.37E-09		8.93E-07	100.00%
160	1	Surface	**Totals**		**6.75E-08**	**8.25E-07**	**1.37E-09**		**8.93E-07**	
160	1	Surface	**Percent**		**7.55%**	**92.29%**	**0.15%**			
163	1	Surface	Chromium	4.94E+01			1.64E-06		1.64E-06	37.31%
163	1	Surface	Total PAH	1.63E-01	2.08E-07	2.54E-06	4.21E-09		2.75E-06	62.69%
163	1	Surface	**Totals**		**2.08E-07**	**2.54E-06**	**1.64E-06**		**4.39E-06**	
163	1	Surface	**Percent**		**4.73%**	**57.86%**	**37.41%**			
165	1	Surface	Arsenic	6.35E+01	1.66E-05	4.69E-05	1.08E-07		6.37E-05	22.88%
165	1	Surface	Beryllium	6.82E-01	5.12E-07	4.81E-05	6.46E-10		4.87E-05	17.48%
165	1	Surface	Cesium-137	3.47E+00	4.70E-08		8.33E-12	4.03E-05	4.03E-05	14.48%
165	1	Surface	Chromium	3.74E+01			1.24E-06		1.24E-06	0.44%
165	1	Surface	Naphthalene	1.61E+00			7.20E-07		7.20E-07	0.26%
165	1	Surface	Neptunium-237	4.26E-01	2.16E-08		1.52E-09	1.55E-06	1.57E-06	0.56%
165	1	Surface	Nickel	3.47E+01			3.56E-09		3.56E-09	0.00%
165	1	Surface	PCB, Total	8.27E+00	2.89E-06	3.80E-05	3.14E-06		4.41E-05	15.82%
165	1	Surface	Plutonium-239/240	2.81E+00	2.42E-07		1.88E-08	2.56E-09	2.63E-07	0.09%
165	1	Surface	Thorium-230	6.02E+00	3.80E-07		3.46E-08	2.25E-08	4.37E-07	0.16%
165	1	Surface	Total PAH	1.87E+00	2.38E-06	2.91E-05	4.83E-08		3.16E-05	11.33%
165	1	Surface	Uranium-234	5.76E+01	2.84E-06		1.32E-07	6.62E-08	3.04E-06	1.09%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
165	1	Surface	Uranium-235	2.05E+00	1.04E-07		4.16E-09	5.07E-06	5.18E-06	1.86%
165	1	Surface	Uranium-238	6.41E+01	4.21E-06		1.21E-07	3.34E-05	3.77E-05	13.54%
165	1	Surface	**Totals**		**3.03E-05**	**1.62E-04**	**5.57E-06**	**8.03E-05**	**2.78E-04**	
165	1	Surface	**Percent**		**10.87%**	**58.27%**	**2.00%**	**28.85%**		
169	1	Surface	Arsenic	2.03E+01	5.32E-06	1.50E-05	3.46E-08		2.04E-05	9.19%
169	1	Surface	Beryllium	8.00E-01	6.01E-07	5.65E-05	7.58E-10		5.71E-05	25.75%
169	1	Surface	Chromium	2.15E+02			7.12E-06		7.12E-06	3.21%
169	1	Surface	Nickel	5.49E+02			5.63E-08		5.63E-08	0.03%
169	1	Surface	PCB, Total	1.00E+01	3.49E-06	4.60E-05	3.80E-06		5.33E-05	24.04%
169	1	Surface	Total PAH	4.59E+00	5.85E-06	7.15E-05	1.18E-07		7.74E-05	34.94%
169	1	Surface	Uranium-234	6.55E+00	3.23E-07		1.51E-08	7.54E-09	3.46E-07	0.16%
169	1	Surface	Uranium-235	4.60E-01	2.34E-08		9.37E-10	1.14E-06	1.16E-06	0.53%
169	1	Surface	Uranium-238	8.12E+00	5.33E-07		1.53E-08	4.23E-06	4.78E-06	2.15%
169	1	Surface	**Totals**		**1.61E-05**	**1.89E-04**	**1.12E-05**	**5.37E-06**	**2.22E-04**	
169	1	Surface	**Percent**		**7.28%**	**85.25%**	**5.04%**	**2.43%**		
170	1	Surface	Neptunium-237	1.15E-01	5.82E-09		4.10E-10	4.18E-07	4.24E-07	32.04%
170	1	Surface	Uranium-238	1.53E+00	1.00E-07		2.88E-09	7.96E-07	9.00E-07	67.96%
170	1	Surface	**Totals**		**1.06E-07**		**3.29E-09**	**1.21E-06**	**1.32E-06**	
170	1	Surface	**Percent**		**8.02%**		**0.25%**	**91.73%**		
176	1	Surface	Arsenic	4.86E+01	1.27E-05	3.59E-05	8.26E-08		4.87E-05	97.15%
176	1	Surface	Chromium	4.27E+01			1.42E-06		1.42E-06	2.83%
176	1	Surface	Nickel	1.07E+02			1.10E-08		1.10E-08	0.02%
176	1	Surface	**Totals**		**1.27E-05**	**3.59E-05**	**1.51E-06**		**5.01E-05**	
176	1	Surface	**Percent**		**25.39%**	**71.60%**	**3.01%**			
180	1	Surface	Arsenic	7.48E+01	1.96E-05	5.53E-05	1.27E-07		7.50E-05	97.60%
180	1	Surface	Chromium	5.54E+01			1.84E-06		1.84E-06	2.39%
180	1	Surface	Nickel	8.77E+01			8.99E-09		8.99E-09	0.01%
180	1	Surface	**Totals**		**1.96E-05**	**5.53E-05**	**1.97E-06**		**7.69E-05**	
180	1	Surface	**Percent**		**25.51%**	**71.93%**	**2.57%**			
180	2	Surface	Arsenic	1.27E+01	3.32E-06	9.35E-06	2.15E-08		1.27E-05	80.67%
180	2	Surface	Chromium	4.46E+01			1.48E-06		1.48E-06	9.41%
180	2	Surface	Nickel	8.42E+01			8.63E-09		8.63E-09	0.05%
180	2	Surface	Total PAH	9.19E-02	1.17E-07	1.43E-06	2.37E-09		1.55E-06	9.86%
180	2	Surface	**Totals**		**3.43E-06**	**1.08E-05**	**1.51E-06**		**1.57E-05**	
180	2	Surface	**Percent**		**21.83%**	**68.56%**	**9.61%**			
180	3	Surface	Arsenic	1.34E+01	3.50E-06	9.87E-06	2.27E-08		1.34E-05	89.55%
180	3	Surface	Chromium	4.69E+01			1.56E-06		1.56E-06	10.41%
180	3	Surface	Nickel	6.77E+01			6.95E-09		6.95E-09	0.05%
180	3	Surface	**Totals**		**3.50E-06**	**9.87E-06**	**1.59E-06**		**1.50E-05**	
180	3	Surface	**Percent**		**23.40%**	**65.99%**	**10.60%**			
180	4	Surface	Arsenic	1.15E+01	3.02E-06	8.52E-06	1.96E-08		1.16E-05	9.03%
180	4	Surface	Beryllium	1.60E+00	1.20E-06	1.13E-04	1.52E-09		1.14E-04	89.13%
180	4	Surface	Chromium	6.00E+01			1.99E-06		1.99E-06	1.55%
180	4	Surface	Nickel	6.46E+01			6.63E-09		6.63E-09	0.01%
180	4	Surface	Total PAH	2.15E-02	2.74E-08	3.35E-07	5.56E-10		3.63E-07	0.28%
180	4	Surface	**Totals**		**4.25E-06**	**1.22E-04**	**2.02E-06**		**1.28E-04**	
180	4	Surface	**Percent**		**3.32%**	**95.11%**	**1.58%**			
181	1	Surface	Chromium	2.29E+01			7.57E-07		7.57E-07	56.66%
181	1	Surface	Total PAH	3.43E-02	4.38E-08	5.35E-07	8.86E-10		5.79E-07	43.34%
181	1	Surface	**Totals**		**4.38E-08**	**5.35E-07**	**7.58E-07**		**1.34E-06**	
181	1	Surface	**Percent**		**3.27%**	**40.00%**	**56.73%**			
194	1	Surface	Chromium	3.87E+01			1.28E-06		1.28E-06	99.54%
194	1	Surface	Nickel	5.84E+01			5.99E-09		5.99E-09	0.46%
194	1	Surface	**Totals**				**1.29E-06**		**1.29E-06**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	1	Surface	**Percent**				**100.00%**			
194	2	Surface	Chromium	5.96E+01			1.98E-06		1.98E-06	70.29%
194	2	Surface	Uranium-238	1.42E+00	9.32E-08		2.68E-09	7.39E-07	8.35E-07	29.71%
194	2	Surface	**Totals**		**9.32E-08**		**1.98E-06**	**7.39E-07**	**2.81E-06**	
194	2	Surface	**Percent**		**3.32%**		**70.38%**	**26.30%**		
194	3	Surface	Arsenic	1.46E+01	3.84E-06	1.08E-05	2.49E-08		1.47E-05	84.38%
194	3	Surface	Chromium	3.90E+01			1.29E-06		1.29E-06	7.42%
194	3	Surface	Nickel	6.40E+01			6.57E-09		6.57E-09	0.04%
194	3	Surface	Total PAH	3.93E-02	5.01E-08	6.13E-07	1.02E-09		6.64E-07	3.81%
194	3	Surface	Uranium-238	1.28E+00	8.43E-08		2.42E-09	6.68E-07	7.55E-07	4.34%
194	3	Surface	**Totals**		**3.97E-06**	**1.14E-05**	**1.33E-06**	**6.68E-07**	**1.74E-05**	
194	3	Surface	**Percent**		**22.82%**	**65.71%**	**7.63%**	**3.84%**		
194	4	Surface	Chromium	4.84E+01			1.60E-06		1.60E-06	41.56%
194	4	Surface	Nickel	6.91E+01			7.08E-09		7.08E-09	0.18%
194	4	Surface	Total PAH	7.30E-02	9.31E-08	1.14E-06	1.89E-09		1.23E-06	31.91%
194	4	Surface	Uranium-238	1.73E+00	1.14E-07		3.26E-09	9.01E-07	1.02E-06	26.35%
194	4	Surface	**Totals**		**2.07E-07**	**1.14E-06**	**1.62E-06**	**9.01E-07**	**3.86E-06**	
194	4	Surface	**Percent**		**5.35%**	**29.45%**	**41.87%**	**23.32%**		
194	5	Surface	Chromium	4.58E+01			1.52E-06		1.52E-06	55.45%
194	5	Surface	Nickel	7.54E+01			7.74E-09		7.74E-09	0.28%
194	5	Surface	Total PAH	2.37E-02	3.02E-08	3.69E-07	6.12E-10		4.00E-07	14.62%
194	5	Surface	Uranium-238	1.38E+00	9.06E-08		2.60E-09	7.18E-07	8.12E-07	29.65%
194	5	Surface	**Totals**		**1.21E-07**	**3.69E-07**	**1.53E-06**	**7.18E-07**	**2.74E-06**	
194	5	Surface	**Percent**		**4.41%**	**13.49%**	**55.85%**	**26.24%**		
194	6	Surface	Chromium	3.70E+01			1.23E-06		1.23E-06	60.99%
194	6	Surface	Nickel	8.06E+01			8.27E-09		8.27E-09	0.41%
194	6	Surface	Uranium-238	1.32E+00	8.66E-08		2.49E-09	6.87E-07	7.76E-07	38.60%
194	6	Surface	**Totals**		**8.66E-08**		**1.24E-06**	**6.87E-07**	**2.01E-06**	
194	6	Surface	**Percent**		**4.31%**		**61.53%**	**34.17%**		
194	7	Surface	Chromium	5.32E+01			1.76E-06		1.76E-06	99.55%
194	7	Surface	Nickel	7.71E+01			7.91E-09		7.91E-09	0.45%
194	7	Surface	**Totals**				**1.77E-06**		**1.77E-06**	
194	7	Surface	**Percent**				**100.00%**			
194	8	Surface	Chromium	5.36E+01			1.78E-06		1.78E-06	16.47%
194	8	Surface	Total PAH	4.85E-01	6.19E-07	7.56E-06	1.25E-08		8.19E-06	75.95%
194	8	Surface	Uranium-238	1.39E+00	9.12E-08		2.62E-09	7.24E-07	8.17E-07	7.58%
194	8	Surface	**Totals**		**7.10E-07**	**7.56E-06**	**1.79E-06**	**7.24E-07**	**1.08E-05**	
194	8	Surface	**Percent**		**6.58%**	**70.10%**	**16.61%**	**6.71%**		
194	9	Surface	Arsenic	1.14E+01	2.99E-06	8.44E-06	1.94E-08		1.15E-05	87.00%
194	9	Surface	Chromium	5.17E+01			1.71E-06		1.71E-06	13.00%
194	9	Surface	**Totals**		**2.99E-06**	**8.44E-06**	**1.73E-06**		**1.32E-05**	
194	9	Surface	**Percent**		**22.74%**	**64.11%**	**13.15%**			
194	10	Surface	Arsenic	1.22E+01	3.19E-06	8.99E-06	2.07E-08		1.22E-05	48.07%
194	10	Surface	Cesium-137	5.81E-01	7.86E-09		1.39E-12	6.74E-06	6.75E-06	26.59%
194	10	Surface	Chromium	3.63E+01			1.20E-06		1.20E-06	4.74%
194	10	Surface	Nickel	7.60E+01			7.80E-09		7.80E-09	0.03%
194	10	Surface	Total PAH	2.57E-01	3.28E-07	4.01E-06	6.64E-09		4.34E-06	17.12%
194	10	Surface	Uranium-238	1.49E+00	9.78E-08		2.81E-09	7.76E-07	8.76E-07	3.45%
194	10	Surface	**Totals**		**3.62E-06**	**1.30E-05**	**1.24E-06**	**7.51E-06**	**2.54E-05**	
194	10	Surface	**Percent**		**14.27%**	**51.22%**	**4.89%**	**29.62%**		
194	11	Surface	Chromium	3.27E+01			1.08E-06		1.08E-06	37.55%
194	11	Surface	Nickel	1.01E+02			1.03E-08		1.03E-08	0.36%
194	11	Surface	PCB, Total	8.40E-02	2.94E-08	3.86E-07	3.19E-08		4.48E-07	15.52%
194	11	Surface	Total PAH	7.95E-02	1.01E-07	1.24E-06	2.05E-09		1.34E-06	46.57%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	11	Surface	**Totals**		**1.31E-07**	**1.63E-06**	**1.13E-06**		**2.88E-06**	
194	11	Surface	**Percent**		**4.53%**	**56.37%**	**39.09%**			
194	12	Surface	Chromium	6.34E+01			2.10E-06		2.10E-06	12.24%
194	12	Surface	Nickel	7.86E+01			8.06E-09		8.06E-09	0.05%
194	12	Surface	Total PAH	8.91E-01	1.14E-06	1.39E-05	2.30E-08		1.51E-05	87.72%
194	12	Surface	**Totals**		**1.14E-06**	**1.39E-05**	**2.13E-06**		**1.72E-05**	
194	12	Surface	**Percent**		**6.63%**	**80.96%**	**12.42%**			
194	13	Surface	Chromium	4.77E+01			1.58E-06		1.58E-06	50.49%
194	13	Surface	Nickel	6.03E+01			6.19E-09		6.19E-09	0.20%
194	13	Surface	Total PAH	9.13E-02	1.17E-07	1.42E-06	2.36E-09		1.54E-06	49.32%
194	13	Surface	**Totals**		**1.17E-07**	**1.42E-06**	**1.59E-06**		**3.13E-06**	
194	13	Surface	**Percent**		**3.72%**	**45.52%**	**50.76%**			
194	14	Surface	Chromium	5.21E+01			1.73E-06		1.73E-06	100.00%
194	14	Surface	**Totals**				**1.73E-06**		**1.73E-06**	
194	14	Surface	**Percent**				**100.00%**			
194	15	Surface	Chromium	5.33E+01			1.77E-06		1.77E-06	100.00%
194	15	Surface	**Totals**				**1.77E-06**		**1.77E-06**	
194	15	Surface	**Percent**				**100.00%**			
194	16	Surface	Arsenic	1.15E+01	3.02E-06	8.51E-06	1.96E-08		1.16E-05	15.32%
194	16	Surface	Beryllium	8.70E-01	6.54E-07	6.14E-05	8.24E-10		6.21E-05	82.33%
194	16	Surface	Chromium	5.32E+01			1.76E-06		1.76E-06	2.34%
194	16	Surface	Nickel	7.20E+01			7.39E-09		7.39E-09	0.01%
194	16	Surface	**Totals**		**3.67E-06**	**6.99E-05**	**1.79E-06**		**7.54E-05**	
194	16	Surface	**Percent**		**4.87%**	**92.75%**	**2.38%**			
194	17	Surface	Arsenic	1.16E+01	3.03E-06	8.54E-06	1.97E-08		1.16E-05	71.72%
194	17	Surface	Cadmium	1.10E+00	7.30E-08	2.75E-07	7.81E-10		3.48E-07	2.16%
194	17	Surface	Chromium	4.65E+01			1.54E-06		1.54E-06	9.54%
194	17	Surface	Total PAH	1.59E-01	2.02E-07	2.47E-06	4.10E-09		2.68E-06	16.59%
194	17	Surface	**Totals**		**3.30E-06**	**1.13E-05**	**1.56E-06**		**1.62E-05**	
194	17	Surface	**Percent**		**20.45%**	**69.86%**	**9.69%**			
194	18	Surface	Arsenic	1.06E+01	2.77E-06	7.81E-06	1.80E-08		1.06E-05	16.14%
194	18	Surface	Beryllium	7.40E-01	5.56E-07	5.22E-05	7.01E-10		5.28E-05	80.39%
194	18	Surface	Chromium	6.85E+01			2.27E-06		2.27E-06	3.46%
194	18	Surface	Nickel	5.78E+01			5.93E-09		5.93E-09	0.01%
194	18	Surface	**Totals**		**3.33E-06**	**6.01E-05**	**2.29E-06**		**6.57E-05**	
194	18	Surface	**Percent**		**5.07%**	**91.44%**	**3.49%**			
194	19	Surface	Arsenic	1.07E+01	2.80E-06	7.90E-06	1.82E-08		1.07E-05	86.95%
194	19	Surface	Chromium	4.84E+01			1.60E-06		1.60E-06	13.00%
194	19	Surface	Nickel	5.84E+01			5.99E-09		5.99E-09	0.05%
194	19	Surface	**Totals**		**2.80E-06**	**7.90E-06**	**1.63E-06**		**1.23E-05**	
194	19	Surface	**Percent**		**22.72%**	**64.08%**	**13.19%**			
194	20	Surface	Arsenic	1.18E+01	3.10E-06	8.75E-06	2.02E-08		1.19E-05	12.81%
194	20	Surface	Beryllium	1.10E+00	8.26E-07	7.77E-05	1.04E-09		7.85E-05	84.66%
194	20	Surface	Chromium	5.24E+01			1.74E-06		1.74E-06	1.87%
194	20	Surface	Cobalt	2.11E+01			7.49E-08		7.49E-08	0.08%
194	20	Surface	Nickel	6.57E+01			6.74E-09		6.74E-09	0.01%
194	20	Surface	Total PAH	3.10E-02	3.95E-08	4.83E-07	8.01E-10		5.24E-07	0.56%
194	20	Surface	**Totals**		**3.97E-06**	**8.69E-05**	**1.84E-06**		**9.27E-05**	
194	20	Surface	**Percent**		**4.28%**	**93.73%**	**1.98%**			
194	21	Surface	Chromium	5.51E+01			1.83E-06		1.83E-06	99.61%
194	21	Surface	Nickel	7.01E+01			7.19E-09		7.19E-09	0.39%
194	21	Surface	**Totals**				**1.83E-06**		**1.83E-06**	
194	21	Surface	**Percent**				**100.00%**			
194	22	Surface	Chromium	4.90E+01			1.62E-06		1.62E-06	2.71%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	22	Surface	PCB, Total	1.09E+01	3.82E-06	5.02E-05	4.15E-06		5.82E-05	97.29%
194	22	Surface	**Totals**		**3.82E-06**	**5.02E-05**	**5.77E-06**		**5.98E-05**	
194	22	Surface	**Percent**		**6.38%**	**83.97%**	**9.65%**			
194	23	Surface	Arsenic	1.16E+01	3.03E-06	8.54E-06	1.97E-08		1.16E-05	84.07%
194	23	Surface	Chromium	6.60E+01			2.19E-06		2.19E-06	15.87%
194	23	Surface	Nickel	8.77E+01			9.00E-09		9.00E-09	0.07%
194	23	Surface	**Totals**		**3.03E-06**	**8.54E-06**	**2.22E-06**		**1.38E-05**	
194	23	Surface	**Percent**		**21.97%**	**61.95%**	**16.08%**			
194	24	Surface	Chromium	5.02E+01			1.66E-06		1.66E-06	80.92%
194	24	Surface	Nickel	7.08E+01			7.26E-09		7.26E-09	0.35%
194	24	Surface	Total PAH	2.28E-02	2.91E-08	3.55E-07	5.89E-10		3.85E-07	18.72%
194	24	Surface	**Totals**		**2.91E-08**	**3.55E-07**	**1.67E-06**		**2.06E-06**	
194	24	Surface	**Percent**		**1.41%**	**17.28%**	**81.30%**			
194	25	Surface	Chromium	6.13E+01			2.03E-06		2.03E-06	85.14%
194	25	Surface	Nickel	6.33E+01			6.50E-09		6.50E-09	0.27%
194	25	Surface	Total PAH	2.06E-02	2.63E-08	3.21E-07	5.32E-10		3.48E-07	14.59%
194	25	Surface	**Totals**		**2.63E-08**	**3.21E-07**	**2.04E-06**		**2.38E-06**	
194	25	Surface	**Percent**		**1.10%**	**13.47%**	**85.43%**			
194	26	Surface	Beryllium	7.00E-01	5.26E-07	4.94E-05	6.63E-10		4.99E-05	97.30%
194	26	Surface	Chromium	4.18E+01			1.39E-06		1.39E-06	2.70%
194	26	Surface	**Totals**		**5.26E-07**	**4.94E-05**	**1.39E-06**		**5.13E-05**	
194	26	Surface	**Percent**		**1.02%**	**96.27%**	**2.70%**			
194	27	Surface	Chromium	5.22E+01			1.73E-06		1.73E-06	99.61%
194	27	Surface	Nickel	6.55E+01			6.72E-09		6.72E-09	0.39%
194	27	Surface	**Totals**				**1.74E-06**		**1.74E-06**	
194	27	Surface	**Percent**				**100.00%**			
194	28	Surface	Arsenic	1.20E+01	3.15E-06	8.89E-06	2.05E-08		1.21E-05	18.64%
194	28	Surface	Beryllium	7.10E-01	5.33E-07	5.01E-05	6.72E-10		5.07E-05	78.25%
194	28	Surface	Chromium	6.07E+01			2.01E-06		2.01E-06	3.11%
194	28	Surface	Nickel	6.95E+01			7.12E-09		7.12E-09	0.01%
194	28	Surface	**Totals**		**3.69E-06**	**5.90E-05**	**2.04E-06**		**6.47E-05**	
194	28	Surface	**Percent**		**5.69%**	**91.15%**	**3.15%**			
194	29	Surface	Chromium	5.06E+01			1.68E-06		1.68E-06	99.60%
194	29	Surface	Nickel	6.51E+01			6.68E-09		6.68E-09	0.40%
194	29	Surface	**Totals**				**1.68E-06**		**1.68E-06**	
194	29	Surface	**Percent**				**100.00%**			
194	30	Surface	Chromium	5.66E+01			1.87E-06		1.87E-06	99.62%
194	30	Surface	Nickel	6.99E+01			7.17E-09		7.17E-09	0.38%
194	30	Surface	**Totals**				**1.88E-06**		**1.88E-06**	
194	30	Surface	**Percent**				**100.00%**			
194	31	Surface	Cesium-137	5.70E-01	7.71E-09		1.37E-12	6.61E-06	6.62E-06	86.74%
194	31	Surface	Uranium-238	1.72E+00	1.13E-07		3.24E-09	8.95E-07	1.01E-06	13.26%
194	31	Surface	**Totals**		**1.21E-07**		**3.24E-09**	**7.51E-06**	**7.63E-06**	
194	31	Surface	**Percent**		**1.58%**		**0.04%**	**98.38%**		
195	1	Surface	Chromium	6.33E+01			2.10E-06		2.10E-06	99.66%
195	1	Surface	Nickel	7.02E+01			7.20E-09		7.20E-09	0.34%
195	1	Surface	**Totals**				**2.10E-06**		**2.10E-06**	
195	1	Surface	**Percent**				**100.00%**			
195	2	Surface	Chromium	4.52E+01			1.50E-06		1.50E-06	76.80%
195	2	Surface	Total PAH	2.68E-02	3.42E-08	4.18E-07	6.92E-10		4.53E-07	23.20%
195	2	Surface	**Totals**		**3.42E-08**	**4.18E-07**	**1.50E-06**		**1.95E-06**	
195	2	Surface	**Percent**		**1.75%**	**21.42%**	**76.83%**			
195	3	Surface	Chromium	5.03E+01			1.67E-06		1.67E-06	70.70%
195	3	Surface	Nickel	5.22E+01			5.35E-09		5.35E-09	0.23%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
195	3	Surface	Total PAH	4.06E-02	5.18E-08	6.33E-07	1.05E-09		6.86E-07	29.08%
195	3	Surface	**Totals**		**5.18E-08**	**6.33E-07**	**1.67E-06**		**2.36E-06**	
195	3	Surface	**Percent**		**2.20%**	**26.84%**	**70.97%**			
195	4	Surface	Chromium	5.29E+01			1.75E-06		1.75E-06	99.64%
195	4	Surface	Nickel	6.23E+01			6.39E-09		6.39E-09	0.36%
195	4	Surface	**Totals**				**1.76E-06**		**1.76E-06**	
195	4	Surface	**Percent**				**100.00%**			
195	5	Surface	Chromium	5.74E+01			1.90E-06		1.90E-06	82.14%
195	5	Surface	Nickel	8.11E+01			8.32E-09		8.32E-09	0.36%
195	5	Surface	Total PAH	2.40E-02	3.06E-08	3.74E-07	6.20E-10		4.05E-07	17.50%
195	5	Surface	**Totals**		**3.06E-08**	**3.74E-07**	**1.91E-06**		**2.32E-06**	
195	5	Surface	**Percent**		**1.32%**	**16.15%**	**82.53%**			
195	6	Surface	Chromium	4.45E+01			1.48E-06		1.48E-06	26.04%
195	6	Surface	Nickel	8.71E+01			8.94E-09		8.94E-09	0.16%
195	6	Surface	Total PAH	2.48E-01	3.16E-07	3.86E-06	6.40E-09		4.18E-06	73.80%
195	6	Surface	**Totals**		**3.16E-07**	**3.86E-06**	**1.49E-06**		**5.67E-06**	
195	6	Surface	**Percent**		**5.57%**	**68.11%**	**26.31%**			
195	7	Surface	Chromium	4.93E+01			1.63E-06		1.63E-06	100.00%
195	7	Surface	**Totals**				**1.63E-06**		**1.63E-06**	
195	7	Surface	**Percent**				**100.00%**			
195	8	Surface	Arsenic	1.16E+01	3.03E-06	8.54E-06	1.97E-08		1.16E-05	16.48%
195	8	Surface	Beryllium	7.40E-01	5.56E-07	5.22E-05	7.01E-10		5.28E-05	75.04%
195	8	Surface	Chromium	6.79E+01			2.25E-06		2.25E-06	3.20%
195	8	Surface	Cobalt	1.82E+01			6.46E-08		6.46E-08	0.09%
195	8	Surface	Nickel	7.01E+01			7.19E-09		7.19E-09	0.01%
195	8	Surface	Total PAH	2.16E-01	2.75E-07	3.36E-06	5.57E-09		3.64E-06	5.18%
195	8	Surface	**Totals**		**3.86E-06**	**6.41E-05**	**2.35E-06**		**7.04E-05**	
195	8	Surface	**Percent**		**5.49%**	**91.17%**	**3.34%**			
195	9	Surface	Chromium	6.08E+01			2.02E-06		2.02E-06	99.60%
195	9	Surface	Nickel	7.93E+01			8.13E-09		8.13E-09	0.40%
195	9	Surface	**Totals**				**2.02E-06**		**2.02E-06**	
195	9	Surface	**Percent**				**100.00%**			
195	10	Surface	Chromium	4.51E+01			1.49E-06		1.49E-06	99.49%
195	10	Surface	Nickel	7.40E+01			7.59E-09		7.59E-09	0.51%
195	10	Surface	**Totals**				**1.50E-06**		**1.50E-06**	
195	10	Surface	**Percent**				**100.00%**			
195	11	Surface	Arsenic	1.35E+01	3.53E-06	9.95E-06	2.29E-08		1.35E-05	88.36%
195	11	Surface	Chromium	5.05E+01			1.67E-06		1.67E-06	10.95%
195	11	Surface	Cobalt	2.77E+01			9.84E-08		9.84E-08	0.64%
195	11	Surface	Nickel	6.77E+01			6.94E-09		6.94E-09	0.05%
195	11	Surface	**Totals**		**3.53E-06**	**9.95E-06**	**1.80E-06**		**1.53E-05**	
195	11	Surface	**Percent**		**23.09%**	**65.12%**	**11.79%**			
195	12	Surface	Beryllium	7.50E-01	5.63E-07	5.29E-05	7.10E-10		5.35E-05	95.81%
195	12	Surface	Chromium	7.04E+01			2.33E-06		2.33E-06	4.18%
195	12	Surface	Nickel	6.78E+01			6.95E-09		6.95E-09	0.01%
195	12	Surface	**Totals**		**5.63E-07**	**5.29E-05**	**2.34E-06**		**5.58E-05**	
195	12	Surface	**Percent**		**1.01%**	**94.80%**	**4.19%**			
195	13	Surface	Chromium	6.55E+01			2.17E-06		2.17E-06	99.67%
195	13	Surface	Nickel	6.91E+01			7.09E-09		7.09E-09	0.33%
195	13	Surface	**Totals**				**2.18E-06**		**2.18E-06**	
195	13	Surface	**Percent**				**100.00%**			
195	14	Surface	Chromium	5.94E+01			1.97E-06		1.97E-06	99.63%
195	14	Surface	Nickel	7.04E+01			7.22E-09		7.22E-09	0.37%
195	14	Surface	**Totals**				**1.98E-06**		**1.98E-06**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
195	14	Surface	**Percent**				**100.00%**			
195	15	Surface	Chromium	4.82E+01			1.60E-06		1.60E-06	100.00%
195	15	Surface	**Totals**				**1.60E-06**		**1.60E-06**	
195	15	Surface	**Percent**				**100.00%**			
195	16	Surface	Chromium	4.45E+01			1.47E-06		1.47E-06	99.44%
195	16	Surface	Nickel	8.16E+01			8.37E-09		8.37E-09	0.56%
195	16	Surface	**Totals**				**1.48E-06**		**1.48E-06**	
195	16	Surface	**Percent**				**100.00%**			
195	17	Surface	Chromium	8.22E+01			2.72E-06		2.72E-06	19.73%
195	17	Surface	Nickel	5.93E+01			6.09E-09		6.09E-09	0.04%
195	17	Surface	PCB, Total	7.40E-01	2.59E-07	3.40E-06	2.81E-07		3.94E-06	28.57%
195	17	Surface	Total PAH	3.16E-01	4.03E-07	4.92E-06	8.16E-09		5.33E-06	38.66%
195	17	Surface	Uranium-235	1.32E-01	6.72E-09		2.69E-10	3.27E-07	3.34E-07	2.42%
195	17	Surface	Uranium-238	2.48E+00	1.63E-07		4.68E-09	1.29E-06	1.46E-06	10.57%
195	17	Surface	**Totals**		**8.31E-07**	**8.33E-06**	**3.02E-06**	**1.62E-06**	**1.38E-05**	
195	17	Surface	**Percent**		**6.02%**	**60.34%**	**21.91%**	**11.73%**		
196	1	Surface	Chromium	1.96E+01			6.50E-07		6.50E-07	23.54%
196	1	Surface	Neptunium-237	3.11E-01	1.57E-08		1.11E-09	1.13E-06	1.15E-06	41.57%
196	1	Surface	Nickel	5.56E+02			5.70E-08		5.70E-08	2.07%
196	1	Surface	Uranium-238	1.54E+00	1.01E-07		2.90E-09	8.02E-07	9.06E-07	32.82%
196	1	Surface	**Totals**		**1.17E-07**		**7.11E-07**	**1.93E-06**	**2.76E-06**	
196	1	Surface	**Percent**		**4.23%**		**25.75%**	**70.01%**		
196	2	Surface	Cadmium	2.53E+00	1.68E-07	6.32E-07	1.80E-09		8.01E-07	3.59%
196	2	Surface	Chromium	2.07E+01			6.86E-07		6.86E-07	3.07%
196	2	Surface	Nickel	7.36E+01			7.55E-09		7.55E-09	0.03%
196	2	Surface	PCB, Total	1.51E+00	5.28E-07	6.94E-06	5.74E-07		8.05E-06	36.04%
196	2	Surface	Total PAH	6.80E-01	8.67E-07	1.06E-05	1.76E-08		1.15E-05	51.44%
196	2	Surface	Uranium-238	2.21E+00	1.45E-07		4.17E-09	1.15E-06	1.30E-06	5.82%
196	2	Surface	**Totals**		**1.71E-06**	**1.82E-05**	**1.29E-06**	**1.15E-06**	**2.23E-05**	
196	2	Surface	**Percent**		**7.65%**	**81.41%**	**5.78%**	**5.15%**		
200	1	Surface	Cesium-137	5.74E-01	7.77E-09		1.38E-12	6.66E-06	6.67E-06	26.26%
200	1	Surface	Chromium	5.75E+01			1.91E-06		1.91E-06	7.51%
200	1	Surface	Nickel	1.28E+02			1.31E-08		1.31E-08	0.05%
200	1	Surface	PCB, Total	2.60E+00	9.09E-07	1.20E-05	9.88E-07		1.39E-05	54.58%
200	1	Surface	Total PAH	2.84E-02	3.62E-08	4.43E-07	7.34E-10		4.80E-07	1.89%
200	1	Surface	Uranium-235	1.43E-01	7.28E-09		2.91E-10	3.55E-07	3.62E-07	1.43%
200	1	Surface	Uranium-238	3.58E+00	2.35E-07		6.74E-09	1.86E-06	2.10E-06	8.29%
200	1	Surface	**Totals**		**1.19E-06**	**1.24E-05**	**2.92E-06**	**8.87E-06**	**2.54E-05**	
200	1	Surface	**Percent**		**4.71%**	**48.85%**	**11.49%**	**34.96%**		
204	1	Surface	Beryllium	1.36E+00	1.02E-06	9.60E-05	1.29E-09		9.70E-05	82.69%
204	1	Surface	Cadmium	2.73E+00	1.81E-07	6.82E-07	1.94E-09		8.65E-07	0.74%
204	1	Surface	Chromium	7.40E+01			2.45E-06		2.45E-06	2.09%
204	1	Surface	PCB, Total	2.53E+00	8.84E-07	1.16E-05	9.62E-07		1.35E-05	11.49%
204	1	Surface	Uranium-235	1.80E-01	9.17E-09		3.67E-10	4.46E-07	4.56E-07	0.39%
204	1	Surface	Uranium-238	5.20E+00	3.41E-07		9.80E-09	2.71E-06	3.06E-06	2.61%
204	1	Surface	**Totals**		**2.44E-06**	**1.08E-04**	**3.43E-06**	**3.15E-06**	**1.17E-04**	
204	1	Surface	**Percent**		**2.08%**	**92.31%**	**2.92%**	**2.69%**		
204	2	Surface	Chromium	1.80E+01			5.97E-07		5.97E-07	39.71%
204	2	Surface	PCB, Total	1.70E-01	5.94E-08	7.82E-07	6.46E-08		9.06E-07	60.29%
204	2	Surface	**Totals**		**5.94E-08**	**7.82E-07**	**6.61E-07**		**1.50E-06**	
204	2	Surface	**Percent**		**3.95%**	**52.04%**	**44.01%**			
204	3	Surface	Chromium	2.06E+01			6.83E-07		6.83E-07	31.71%
204	3	Surface	Uranium-238	2.50E+00	1.64E-07		4.71E-09	1.30E-06	1.47E-06	68.29%
204	3	Surface	**Totals**		**1.64E-07**		**6.87E-07**	**1.30E-06**	**2.15E-06**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
204	3	Surface	**Percent**		**7.62%**		**31.93%**	**60.45%**		
204	4	Surface	Chromium	2.89E+01			9.58E-07		9.58E-07	13.39%
204	4	Surface	Uranium-235	1.88E-01	9.57E-09		3.82E-10	4.66E-07	4.76E-07	6.65%
204	4	Surface	Uranium-238	9.72E+00	6.38E-07		1.83E-08	5.06E-06	5.72E-06	79.96%
204	4	Surface	**Totals**		**6.48E-07**		**9.77E-07**	**5.53E-06**	**7.15E-06**	
204	4	Surface	**Percent**		**9.06%**		**13.66%**	**77.29%**		
204	18	Surface	Cesium-137	6.30E-01	8.52E-09		1.51E-12	7.31E-06	7.32E-06	67.80%
204	18	Surface	Uranium-235	1.25E-01	6.37E-09		2.55E-10	3.10E-07	3.17E-07	2.93%
204	18	Surface	Uranium-238	5.37E+00	3.52E-07		1.01E-08	2.80E-06	3.16E-06	29.27%
204	18	Surface	**Totals**		**3.67E-07**		**1.04E-08**	**1.04E-05**	**1.08E-05**	
204	18	Surface	**Percent**		**3.40%**		**0.10%**	**96.50%**		
204	23	Surface	Americium-241	3.71E+00	2.52E-07		2.10E-08	4.67E-07	7.40E-07	0.02%
204	23	Surface	Beryllium	1.33E+00	9.99E-07	9.39E-05	1.26E-09		9.49E-05	2.89%
204	23	Surface	Cesium-137	1.17E+00	1.59E-08		2.81E-12	1.36E-05	1.36E-05	0.41%
204	23	Surface	Chromium	1.75E+02			5.80E-06		5.80E-06	0.18%
204	23	Surface	Cobalt-60	1.23E-02	1.54E-10		8.84E-14	6.94E-07	6.94E-07	0.02%
204	23	Surface	PCB, Total	7.90E+01	2.76E-05	3.63E-04	3.00E-05		4.21E-04	12.82%
204	23	Surface	Uranium-234	4.45E+02	2.20E-05		1.02E-06	5.12E-07	2.35E-05	0.72%
204	23	Surface	Uranium-235	5.70E+01	2.90E-06		1.16E-07	1.41E-04	1.44E-04	4.40%
204	23	Surface	Uranium-238	4.39E+03	2.88E-04		8.27E-06	2.28E-03	2.58E-03	78.55%
204	23	Surface	**Totals**		**3.42E-04**	**4.57E-04**	**4.53E-05**	**2.44E-03**	**3.28E-03**	
204	23	Surface	**Percent**		**10.40%**	**13.92%**	**1.38%**	**74.30%**		
211	1	Surface	Chromium	4.48E+01			1.48E-06		1.48E-06	15.35%
211	1	Surface	Neptunium-237	1.46E-01	7.39E-09		5.21E-10	5.31E-07	5.39E-07	5.57%
211	1	Surface	PCB, Total	3.60E-01	1.26E-07	1.66E-06	1.37E-07		1.92E-06	19.85%
211	1	Surface	Total PAH	1.04E-01	1.32E-07	1.62E-06	2.68E-09		1.75E-06	18.14%
211	1	Surface	Uranium-235	2.12E-01	1.08E-08		4.32E-10	5.26E-07	5.37E-07	5.56%
211	1	Surface	Uranium-238	5.84E+00	3.83E-07		1.10E-08	3.04E-06	3.43E-06	35.54%
211	1	Surface	**Totals**		**6.60E-07**	**3.27E-06**	**1.63E-06**	**4.10E-06**	**9.66E-06**	
211	1	Surface	**Percent**		**6.83%**	**33.87%**	**16.91%**	**42.39%**		
212	1	Surface	Arsenic	1.44E+01	3.78E-06	1.07E-05	2.45E-08		1.45E-05	12.20%
212	1	Surface	Beryllium	8.10E-01	6.09E-07	5.72E-05	7.67E-10		5.78E-05	48.75%
212	1	Surface	Cesium-137	6.01E-01	8.13E-09		1.44E-12	6.97E-06	6.98E-06	5.89%
212	1	Surface	Chromium	3.58E+01			1.19E-06		1.19E-06	1.00%
212	1	Surface	Cobalt-60	8.76E-03	1.10E-10		6.32E-14	4.96E-07	4.96E-07	0.42%
212	1	Surface	Neptunium-237	4.00E+00	2.03E-07		1.43E-08	1.45E-05	1.48E-05	12.45%
212	1	Surface	Nickel	8.69E+01			8.92E-09		8.92E-09	0.01%
212	1	Surface	PCB, Total	1.80E-01	6.29E-08	8.28E-07	6.84E-08		9.59E-07	0.81%
212	1	Surface	Plutonium-239/240	6.71E+00	5.79E-07		4.50E-08	6.13E-09	6.30E-07	0.53%
212	1	Surface	Thorium-230	2.60E+02	1.64E-05		1.49E-06	9.72E-07	1.89E-05	15.93%
212	1	Surface	Uranium-235	2.09E-01	1.06E-08		4.26E-10	5.18E-07	5.29E-07	0.45%
212	1	Surface	Uranium-238	3.17E+00	2.08E-07		5.98E-09	1.65E-06	1.86E-06	1.57%
212	1	Surface	**Totals**		**2.19E-05**	**6.87E-05**	**2.85E-06**	**2.52E-05**	**1.19E-04**	
212	1	Surface	**Percent**		**18.45%**	**57.93%**	**2.40%**	**21.22%**		
213	1	Surface	Chromium	4.78E+01			1.58E-06		1.58E-06	25.34%
213	1	Surface	Nickel	6.67E+01			6.85E-09		6.85E-09	0.11%
213	1	Surface	PCB, Total	7.30E-02	2.55E-08	3.36E-07	2.77E-08		3.89E-07	6.22%
213	1	Surface	Total PAH	1.72E-01	2.19E-07	2.68E-06	4.44E-09		2.90E-06	46.42%
213	1	Surface	Uranium-238	2.33E+00	1.53E-07		4.39E-09	1.21E-06	1.37E-06	21.91%
213	1	Surface	**Totals**		**3.98E-07**	**3.01E-06**	**1.63E-06**	**1.21E-06**	**6.25E-06**	
213	1	Surface	**Percent**		**6.36%**	**48.21%**	**26.03%**	**19.40%**		
213	2	Surface	Chromium	4.48E+01			1.49E-06		1.49E-06	99.38%
213	2	Surface	Nickel	9.10E+01			9.33E-09		9.33E-09	0.62%
213	2	Surface	**Totals**				**1.49E-06**		**1.49E-06**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
213	2	Surface	**Percent**				**100.00%**			
215	1	Surface	Chromium	5.73E+01			1.90E-06		1.90E-06	58.04%
215	1	Surface	Nickel	7.32E+01			7.50E-09		7.50E-09	0.23%
215	1	Surface	Total PAH	8.09E-02	1.03E-07	1.26E-06	2.09E-09		1.37E-06	41.73%
215	1	Surface	**Totals**		**1.03E-07**	**1.26E-06**	**1.91E-06**		**3.27E-06**	
215	1	Surface	**Percent**		**3.15%**	**38.52%**	**58.33%**			
216	1	Surface	Chromium	2.38E+01			7.89E-07		7.89E-07	19.27%
216	1	Surface	Total PAH	1.49E-01	1.90E-07	2.33E-06	3.86E-09		2.52E-06	61.62%
216	1	Surface	Uranium-238	1.33E+00	8.73E-08		2.51E-09	6.92E-07	7.82E-07	19.11%
216	1	Surface	**Totals**		**2.78E-07**	**2.33E-06**	**7.95E-07**	**6.92E-07**	**4.09E-06**	
216	1	Surface	**Percent**		**6.79%**	**56.87%**	**19.43%**	**16.92%**		
217	1	Surface	Chromium	8.58E+01			2.84E-06		2.84E-06	78.97%
217	1	Surface	Cobalt	1.96E+01			6.95E-08		6.95E-08	1.93%
217	1	Surface	Nickel	8.54E+01			8.76E-09		8.76E-09	0.24%
217	1	Surface	Uranium-238	1.15E+00	7.57E-08		2.18E-09	6.01E-07	6.79E-07	18.86%
217	1	Surface	**Totals**		**7.57E-08**		**2.92E-06**	**6.01E-07**	**3.60E-06**	
217	1	Surface	**Percent**		**2.10%**		**81.20%**	**16.69%**		
217	2	Surface	Arsenic	1.12E+01	2.92E-06	8.25E-06	1.90E-08		1.12E-05	48.33%
217	2	Surface	Chromium	1.02E+02			3.37E-06		3.37E-06	14.54%
217	2	Surface	Cobalt	1.74E+01			6.18E-08		6.18E-08	0.27%
217	2	Surface	Nickel	9.74E+01			9.99E-09		9.99E-09	0.04%
217	2	Surface	Total PAH	5.05E-01	6.44E-07	7.87E-06	1.30E-08		8.53E-06	36.82%
217	2	Surface	**Totals**		**3.57E-06**	**1.61E-05**	**3.47E-06**		**2.32E-05**	
217	2	Surface	**Percent**		**15.41%**	**69.60%**	**14.99%**			
219	1	Surface	Neptunium-237	3.31E-01	1.68E-08		1.18E-09	1.20E-06	1.22E-06	21.93%
219	1	Surface	Nickel	6.71E+01			6.89E-09		6.89E-09	0.12%
219	1	Surface	Total PAH	7.50E-02	9.57E-08	1.17E-06	1.94E-09		1.27E-06	22.76%
219	1	Surface	Uranium-235	1.92E-01	9.78E-09		3.91E-10	4.76E-07	4.86E-07	8.73%
219	1	Surface	Uranium-238	4.40E+00	2.89E-07		8.29E-09	2.29E-06	2.59E-06	46.46%
219	1	Surface	**Totals**		**4.11E-07**	**1.17E-06**	**1.87E-08**	**3.97E-06**	**5.57E-06**	
219	1	Surface	**Percent**		**7.38%**	**21.00%**	**0.34%**	**71.28%**		
221	1	Surface	Chromium	7.01E+01			2.32E-06		2.32E-06	9.93%
221	1	Surface	Nickel	7.93E+01			8.13E-09		8.13E-09	0.03%
221	1	Surface	PCB, Total	5.00E-01	1.75E-07	2.30E-06	1.90E-07		2.66E-06	11.39%
221	1	Surface	Total PAH	1.02E+00	1.30E-06	1.59E-05	2.64E-08		1.73E-05	73.80%
221	1	Surface	Uranium-238	1.93E+00	1.27E-07		3.64E-09	1.00E-06	1.13E-06	4.85%
221	1	Surface	**Totals**		**1.61E-06**	**1.82E-05**	**2.55E-06**	**1.00E-06**	**2.34E-05**	
221	1	Surface	**Percent**		**6.86%**	**77.94%**	**10.91%**	**4.29%**		
222	1	Surface	Chromium	4.73E+01			1.57E-06		1.57E-06	6.05%
222	1	Surface	Nickel	9.19E+01			9.43E-09		9.43E-09	0.04%
222	1	Surface	PCB, Total	1.40E+00	4.89E-07	6.44E-06	5.32E-07		7.46E-06	28.80%
222	1	Surface	Total PAH	1.77E-01	2.26E-07	2.76E-06	4.58E-09		2.99E-06	11.55%
222	1	Surface	Uranium-234	1.04E+01	5.14E-07		2.39E-08	1.20E-08	5.49E-07	2.12%
222	1	Surface	Uranium-235	7.10E-01	3.62E-08		1.45E-09	1.76E-06	1.80E-06	6.94%
222	1	Surface	Uranium-238	1.96E+01	1.29E-06		3.69E-08	1.02E-05	1.15E-05	44.50%
222	1	Surface	**Totals**		**2.55E-06**	**9.20E-06**	**2.18E-06**	**1.20E-05**	**2.59E-05**	
222	1	Surface	**Percent**		**9.85%**	**35.52%**	**8.40%**	**46.23%**		
224	1	Surface	Chromium	4.49E+01			1.49E-06		1.49E-06	0.04%
224	1	Surface	PCB, Total	4.75E+02	1.66E-04	2.18E-03	1.81E-04		2.53E-03	76.39%
224	1	Surface	Total PAH	4.53E+01	5.77E-05	7.06E-04	1.17E-06		7.65E-04	23.08%
224	1	Surface	Uranium-235	2.50E-01	1.27E-08		5.09E-10	6.20E-07	6.33E-07	0.02%
224	1	Surface	Uranium-238	2.64E+01	1.73E-06		4.98E-08	1.37E-05	1.55E-05	0.47%
224	1	Surface	**Totals**		**2.25E-04**	**2.89E-03**	**1.83E-04**	**1.44E-05**	**3.31E-03**	
224	1	Surface	**Percent**		**6.81%**	**87.23%**	**5.53%**	**0.43%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
225	1	Surface	Chromium	2.55E+01			8.45E-07		8.45E-07	25.16%
225	1	Surface	Total PAH	7.79E-02	9.93E-08	1.21E-06	2.01E-09		1.31E-06	39.14%
225	1	Surface	Uranium-238	2.04E+00	1.34E-07		3.85E-09	1.06E-06	1.20E-06	35.71%
225	1	Surface	**Totals**		**2.33E-07**	**1.21E-06**	**8.51E-07**	**1.06E-06**	**3.36E-06**	
225	1	Surface	**Percent**		**6.94%**	**36.12%**	**25.33%**	**31.61%**		
226	1	Surface	Americium-241	1.62E+00	1.10E-07		9.19E-09	2.05E-07	3.24E-07	0.05%
226	1	Surface	Cesium-137	2.65E+00	3.59E-08		6.36E-12	3.07E-05	3.08E-05	4.70%
226	1	Surface	Chromium	4.25E+01			1.41E-06		1.41E-06	0.22%
226	1	Surface	Cobalt-60	3.14E-03	3.95E-11		2.27E-14	1.78E-07	1.78E-07	0.03%
226	1	Surface	Neptunium-237	1.60E+02	8.11E-06		5.71E-07	5.82E-04	5.91E-04	90.12%
226	1	Surface	Nickel	2.10E+02			2.15E-08		2.15E-08	0.00%
226	1	Surface	PCB, Total	1.49E+00	5.21E-07	6.85E-06	5.66E-07		7.94E-06	1.21%
226	1	Surface	Plutonium-238	2.13E+00	1.81E-07		1.44E-08	7.03E-10	1.96E-07	0.03%
226	1	Surface	Plutonium-239/240	6.52E+00	5.62E-07		4.38E-08	5.95E-09	6.12E-07	0.09%
226	1	Surface	Technetium-99	4.96E+01	1.19E-07		1.41E-10	1.84E-08	1.37E-07	0.02%
226	1	Surface	Thorium-230	4.77E+01	3.01E-06		2.74E-07	1.78E-07	3.46E-06	0.53%
226	1	Surface	Total PAH	9.19E-02	1.17E-07	1.43E-06	2.37E-09		1.55E-06	0.24%
226	1	Surface	Uranium-234	2.29E+01	1.13E-06		5.27E-08	2.64E-08	1.21E-06	0.18%
226	1	Surface	Uranium-235	1.10E+00	5.61E-08		2.24E-09	2.73E-06	2.79E-06	0.43%
226	1	Surface	Uranium-238	2.40E+01	1.58E-06		4.52E-08	1.25E-05	1.41E-05	2.15%
226	1	Surface	**Totals**		**1.55E-05**	**8.28E-06**	**3.01E-06**	**6.28E-04**	**6.55E-04**	
226	1	Surface	**Percent**		**2.37%**	**1.26%**	**0.46%**	**95.91%**		
227	1	Surface	Beryllium	5.52E-01	4.15E-07	3.90E-05	5.23E-10		3.94E-05	36.77%
227	1	Surface	Cesium-137	1.90E-01	2.57E-09		4.56E-13	2.20E-06	2.21E-06	2.06%
227	1	Surface	Chromium	4.71E+01			1.56E-06		1.56E-06	1.46%
227	1	Surface	Cobalt-60	1.53E-02	1.93E-10		1.10E-13	8.66E-07	8.66E-07	0.81%
227	1	Surface	Neptunium-237	9.05E-01	4.58E-08		3.23E-09	3.29E-06	3.34E-06	3.12%
227	1	Surface	Nickel	2.03E+02			2.08E-08		2.08E-08	0.02%
227	1	Surface	PCB, Total	4.14E+00	1.45E-06	1.91E-05	1.57E-06		2.21E-05	20.61%
227	1	Surface	Technetium-99	4.77E+01	1.14E-07		1.36E-10	1.77E-08	1.32E-07	0.12%
227	1	Surface	Total PAH	3.38E-01	4.31E-07	5.27E-06	8.73E-09		5.71E-06	5.33%
227	1	Surface	Uranium-234	1.54E+01	7.62E-07		3.55E-08	1.78E-08	8.16E-07	0.76%
227	1	Surface	Uranium-235	1.49E+00	7.59E-08		3.03E-09	3.69E-06	3.77E-06	3.52%
227	1	Surface	Uranium-238	4.63E+01	3.04E-06		8.72E-08	2.41E-05	2.72E-05	25.41%
227	1	Surface	**Totals**		**6.33E-06**	**6.33E-05**	**3.30E-06**	**3.42E-05**	**1.07E-04**	
227	1	Surface	**Percent**		**5.91%**	**59.09%**	**3.08%**	**31.92%**		
227	2	Surface	Beryllium	5.32E-01	4.00E-07	3.76E-05	5.04E-10		3.80E-05	50.92%
227	2	Surface	Chromium	5.63E+01			1.87E-06		1.87E-06	2.50%
227	2	Surface	Cobalt	8.99E+00			3.19E-08		3.19E-08	0.04%
227	2	Surface	Cobalt-60	1.37E-02	1.73E-10		9.89E-14	7.76E-07	7.76E-07	1.04%
227	2	Surface	Nickel	1.25E+02			1.28E-08		1.28E-08	0.02%
227	2	Surface	PCB, Total	5.82E+00	2.03E-06	2.68E-05	2.21E-06		3.10E-05	41.61%
227	2	Surface	Total PAH	1.16E-01	1.48E-07	1.80E-06	2.99E-09		1.95E-06	2.62%
227	2	Surface	Uranium-238	1.57E+00	1.03E-07		2.97E-09	8.19E-07	9.25E-07	1.24%
227	2	Surface	**Totals**		**2.68E-06**	**6.61E-05**	**4.13E-06**	**1.59E-06**	**7.45E-05**	
227	2	Surface	**Percent**		**3.60%**	**88.72%**	**5.54%**	**2.14%**		
228	1	Surface	Cadmium	3.90E+00	2.59E-07	9.74E-07	2.77E-09		1.24E-06	8.67%
228	1	Surface	Chromium	1.89E+02			6.26E-06		6.26E-06	43.93%
228	1	Surface	Neptunium-237	8.00E-01	4.05E-08		2.85E-09	2.91E-06	2.95E-06	20.71%
228	1	Surface	Nickel	7.92E+01			8.12E-09		8.12E-09	0.06%
228	1	Surface	Total PAH	6.69E-02	8.53E-08	1.04E-06	1.73E-09		1.13E-06	7.92%
228	1	Surface	Uranium-235	1.78E-01	9.07E-09		3.62E-10	4.41E-07	4.51E-07	3.16%
228	1	Surface	Uranium-238	3.77E+00	2.47E-07		7.11E-09	1.96E-06	2.22E-06	15.56%
228	1	Surface	**Totals**		**6.41E-07**	**2.02E-06**	**6.28E-06**	**5.31E-06**	**1.43E-05**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
228	1	Surface	**Percent**		**4.50%**	**14.15%**	**44.09%**	**37.27%**		
229	1	Surface	Nickel	9.14E+01			9.37E-09		9.37E-09	0.22%
229	1	Surface	Total PAH	1.57E-01	2.00E-07	2.44E-06	4.05E-09		2.65E-06	61.02%
229	1	Surface	Uranium-238	2.86E+00	1.88E-07		5.39E-09	1.49E-06	1.68E-06	38.76%
229	1	Surface	**Totals**		**3.88E-07**	**2.44E-06**	**1.88E-08**	**1.49E-06**	**4.34E-06**	
229	1	Surface	**Percent**		**8.93%**	**56.32%**	**0.43%**	**34.31%**		
229	2	Surface	Arsenic	2.12E+01	5.56E-06	1.57E-05	3.61E-08		2.13E-05	16.91%
229	2	Surface	Beryllium	7.90E-01	5.94E-07	5.58E-05	7.48E-10		5.64E-05	44.84%
229	2	Surface	Chromium	2.91E+01			9.66E-07		9.66E-07	0.77%
229	2	Surface	Neptunium-237	2.87E-01	1.45E-08		1.02E-09	1.04E-06	1.06E-06	0.84%
229	2	Surface	Nickel	9.93E+01			1.02E-08		1.02E-08	0.01%
229	2	Surface	Total PAH	1.69E+00	2.16E-06	2.64E-05	4.38E-08		2.86E-05	22.77%
229	2	Surface	Uranium-234	1.22E+01	6.02E-07		2.80E-08	1.40E-08	6.44E-07	0.51%
229	2	Surface	Uranium-235	8.40E-01	4.28E-08		1.71E-09	2.08E-06	2.13E-06	1.69%
229	2	Surface	Uranium-238	2.49E+01	1.63E-06		4.69E-08	1.30E-05	1.46E-05	11.65%
229	2	Surface	**Totals**		**1.06E-05**	**9.79E-05**	**1.13E-06**	**1.61E-05**	**1.26E-04**	
229	2	Surface	**Percent**		**8.44%**	**77.85%**	**0.90%**	**12.81%**		
483	1	Surface	Nickel	1.17E+02			1.20E-08		1.20E-08	2.88%
483	1	Surface	Total PAH	2.39E-02	3.05E-08	3.73E-07	6.18E-10		4.04E-07	97.12%
483	1	Surface	**Totals**		**3.05E-08**	**3.73E-07**	**1.26E-08**		**4.16E-07**	
483	1	Surface	**Percent**		**7.34%**	**89.64%**	**3.03%**			
486	1	Surface	Cesium-137	1.71E+00	2.31E-08		4.10E-12	1.98E-05	1.99E-05	100.00%
486	1	Surface	**Totals**		**2.31E-08**		**4.10E-12**	**1.98E-05**	**1.99E-05**	
486	1	Surface	**Percent**		**0.12%**		**0.00%**	**99.88%**		
487	1	Surface	Cesium-137		1.87E-08		3.31E-12	1.60E-05	1.60E-05	100.00%
487	1	Surface	**Totals**		**1.87E-08**		**3.31E-12**	**1.60E-05**	**1.60E-05**	
487	1	Surface	**Percent**		**0.12%**		**0.00%**	**99.88%**		
488	1	Surface	Cesium-137	5.20E-01	7.04E-09		1.25E-12	6.03E-06	6.04E-06	8.86%
488	1	Surface	PCB, Total	1.03E+01	3.60E-06	4.74E-05	3.91E-06		5.49E-05	80.49%
488	1	Surface	Total PAH	2.50E-01	3.19E-07	3.89E-06	6.45E-09		4.22E-06	6.19%
488	1	Surface	Uranium-235	1.49E-01	7.59E-09		3.03E-10	3.69E-07	3.77E-07	0.55%
488	1	Surface	Uranium-238	4.54E+00	2.98E-07		8.56E-09	2.36E-06	2.67E-06	3.92%
488	1	Surface	**Totals**		**4.23E-06**	**5.13E-05**	**3.93E-06**	**8.76E-06**	**6.82E-05**	
488	1	Surface	**Percent**		**6.20%**	**75.18%**	**5.76%**	**12.85%**		
489	1	Surface	Chromium	4.16E+01			1.38E-06		1.38E-06	37.90%
489	1	Surface	Nickel	7.88E+01			8.09E-09		8.09E-09	0.22%
489	1	Surface	Total PAH	8.22E-02	1.05E-07	1.28E-06	2.12E-09		1.39E-06	38.13%
489	1	Surface	Uranium-238	1.47E+00	9.65E-08		2.77E-09	7.65E-07	8.64E-07	23.75%
489	1	Surface	**Totals**		**2.01E-07**	**1.28E-06**	**1.39E-06**	**7.65E-07**	**3.64E-06**	
489	1	Surface	**Percent**		**5.53%**	**35.19%**	**38.26%**	**21.02%**		
492	1	Surface	Arsenic	1.47E+01	3.85E-06	1.09E-05	2.50E-08		1.47E-05	1.16%
492	1	Surface	Beryllium	1.04E+01	7.81E-06	7.34E-04	9.85E-09		7.42E-04	58.38%
492	1	Surface	Cadmium	3.14E+00	2.08E-07	7.84E-07	2.23E-09		9.95E-07	0.08%
492	1	Surface	Chromium	1.04E+03			3.45E-05		3.45E-05	2.71%
492	1	Surface	Cobalt-60	9.63E-03	1.21E-10		6.95E-14	5.45E-07	5.45E-07	0.04%
492	1	Surface	Neptunium-237	2.09E-01	1.06E-08		7.46E-10	7.60E-07	7.71E-07	0.06%
492	1	Surface	PCB, Total	4.41E+01	1.54E-05	2.03E-04	1.68E-05		2.35E-04	18.49%
492	1	Surface	Uranium-234	5.39E+01	2.66E-06		1.24E-07	6.20E-08	2.85E-06	0.22%
492	1	Surface	Uranium-235	5.72E+00	2.91E-07		1.16E-08	1.42E-05	1.45E-05	1.14%
492	1	Surface	Uranium-238	3.83E+02	2.51E-05		7.22E-07	1.99E-04	2.25E-04	17.72%
492	1	Surface	**Totals**		**5.54E-05**	**9.49E-04**	**5.21E-05**	**2.15E-04**	**1.27E-03**	
492	1	Surface	**Percent**		**4.36%**	**74.63%**	**4.10%**	**16.91%**		
493	1	Surface	Beryllium	9.91E-01	7.45E-07	7.00E-05	9.38E-10		7.07E-05	80.57%
493	1	Surface	Chromium	6.61E+01			2.19E-06		2.19E-06	2.50%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
493	1	Surface	Cobalt	3.79E+01			1.35E-07		1.35E-07	0.15%
493	1	Surface	Cobalt-60	1.36E-02	1.71E-10		9.82E-14	7.70E-07	7.70E-07	0.88%
493	1	Surface	Neptunium-237	1.22E-01	6.18E-09		4.35E-10	4.43E-07	4.50E-07	0.51%
493	1	Surface	Nickel	2.13E+02			2.18E-08		2.18E-08	0.02%
493	1	Surface	PCB, Total	2.60E-01	9.09E-08	1.20E-06	9.88E-08		1.39E-06	1.58%
493	1	Surface	Total PAH	5.00E-01	6.38E-07	7.79E-06	1.29E-08		8.44E-06	9.62%
493	1	Surface	Uranium-235	1.65E-01	8.40E-09		3.36E-10	4.09E-07	4.18E-07	0.48%
493	1	Surface	Uranium-238	5.50E+00	3.61E-07		1.04E-08	2.86E-06	3.23E-06	3.69%
493	1	Surface	**Totals**		**1.85E-06**	**7.89E-05**	**2.47E-06**	**4.49E-06**	**8.78E-05**	
493	1	Surface	**Percent**		**2.11%**	**89.97%**	**2.82%**	**5.11%**		
517	1	Surface	Beryllium	7.39E-01	5.55E-07	5.22E-05	7.00E-10		5.27E-05	82.34%
517	1	Surface	Chromium	4.91E+01			1.63E-06		1.63E-06	2.54%
517	1	Surface	Cobalt-60	6.39E-03	8.05E-11		4.61E-14	3.62E-07	3.62E-07	0.57%
517	1	Surface	Neptunium-237	1.07E+00	5.42E-08		3.82E-09	3.89E-06	3.95E-06	6.16%
517	1	Surface	Nickel	1.72E+02			1.76E-08		1.76E-08	0.03%
517	1	Surface	PCB, Total	5.00E-01	1.75E-07	2.30E-06	1.90E-07		2.66E-06	4.16%
517	1	Surface	Uranium-235	1.60E-01	8.15E-09		3.26E-10	3.97E-07	4.05E-07	0.63%
517	1	Surface	Uranium-238	3.89E+00	2.55E-07		7.33E-09	2.02E-06	2.29E-06	3.57%
517	1	Surface	**Totals**		**1.05E-06**	**5.45E-05**	**1.85E-06**	**6.67E-06**	**6.40E-05**	
517	1	Surface	**Percent**		**1.64%**	**85.06%**	**2.88%**	**10.42%**		
518	1	Surface	Carbazole	1.17E+01	4.10E-08	3.85E-07			4.26E-07	0.51%
518	1	Surface	Cobalt	6.80E+00			2.42E-08		2.42E-08	0.03%
518	1	Surface	Nickel	1.29E+01			1.32E-09		1.32E-09	0.00%
518	1	Surface	PCB, Total	6.30E-01	2.20E-07	2.90E-06	2.39E-07		3.36E-06	4.04%
518	1	Surface	Total PAH	4.64E+00	5.91E-06	7.23E-05	1.20E-07		7.83E-05	94.15%
518	1	Surface	Uranium-235	6.74E-02	3.43E-09		1.37E-10	1.67E-07	1.71E-07	0.21%
518	1	Surface	Uranium-238	1.51E+00	9.94E-08		2.85E-09	7.88E-07	8.90E-07	1.07%
518	1	Surface	**Totals**		**6.28E-06**	**7.56E-05**	**3.88E-07**	**9.55E-07**	**8.32E-05**	
518	1	Surface	**Percent**		**7.55%**	**90.84%**	**0.47%**	**1.15%**		
520	1	Surface	Cesium-137	9.62E-01	1.30E-08		2.31E-12	1.12E-05	1.12E-05	59.87%
520	1	Surface	Chromium	3.17E+01			1.05E-06		1.05E-06	5.64%
520	1	Surface	Neptunium-237	6.56E-01	3.32E-08		2.34E-09	2.38E-06	2.42E-06	12.97%
520	1	Surface	Nickel	2.60E+02			2.67E-08		2.67E-08	0.14%
520	1	Surface	Thorium-230	1.13E+01	7.16E-07		6.52E-08	4.24E-08	8.23E-07	4.41%
520	1	Surface	Total PAH	3.18E-02	4.06E-08	4.96E-07	8.23E-10		5.38E-07	2.88%
520	1	Surface	Uranium-235	1.26E-01	6.42E-09		2.57E-10	3.12E-07	3.19E-07	1.71%
520	1	Surface	Uranium-238	3.93E+00	2.58E-07		7.41E-09	2.05E-06	2.31E-06	12.38%
520	1	Surface	**Totals**		**1.07E-06**	**4.96E-07**	**1.15E-06**	**1.59E-05**	**1.87E-05**	
520	1	Surface	**Percent**		**5.72%**	**2.66%**	**6.19%**	**85.44%**		
520	2	Surface	Beryllium	5.79E-01	4.35E-07	4.09E-05	5.48E-10		4.13E-05	82.25%
520	2	Surface	Chromium	6.67E+01			2.21E-06		2.21E-06	4.40%
520	2	Surface	Neptunium-237	7.48E-02	3.79E-09		2.67E-10	2.72E-07	2.76E-07	0.55%
520	2	Surface	Nickel	3.11E+02			3.19E-08		3.19E-08	0.06%
520	2	Surface	Total PAH	3.17E-01	4.04E-07	4.94E-06	8.19E-09		5.35E-06	10.66%
520	2	Surface	Uranium-238	1.78E+00	1.17E-07		3.35E-09	9.26E-07	1.05E-06	2.08%
520	2	Surface	**Totals**		**9.60E-07**	**4.58E-05**	**2.25E-06**	**1.20E-06**	**5.02E-05**	
520	2	Surface	**Percent**		**1.91%**	**91.22%**	**4.49%**	**2.38%**		
520	3	Surface	Chromium	3.97E+01			1.32E-06		1.32E-06	30.87%
520	3	Surface	Nickel	2.65E+02			2.72E-08		2.72E-08	0.64%
520	3	Surface	Total PAH	1.18E-01	1.51E-07	1.84E-06	3.05E-09		1.99E-06	46.82%
520	3	Surface	Uranium-238	1.57E+00	1.03E-07		2.96E-09	8.17E-07	9.23E-07	21.67%
520	3	Surface	**Totals**		**2.54E-07**	**1.84E-06**	**1.35E-06**	**8.17E-07**	**4.26E-06**	
520	3	Surface	**Percent**		**5.95%**	**43.21%**	**31.65%**	**19.19%**		
520	4	Surface	Chromium	3.82E+01			1.27E-06		1.27E-06	7.18%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
520	4	Surface	Neptunium-237	7.40E-01	3.75E-08		2.64E-09	2.69E-06	2.73E-06	15.47%
520	4	Surface	Nickel	2.82E+02			2.89E-08		2.89E-08	0.16%
520	4	Surface	Total PAH	5.52E-01	7.05E-07	8.61E-06	1.43E-08		9.33E-06	52.86%
520	4	Surface	Uranium-235	2.42E-01	1.23E-08		4.93E-10	6.00E-07	6.13E-07	3.47%
520	4	Surface	Uranium-238	6.26E+00	4.11E-07		1.18E-08	3.26E-06	3.68E-06	20.86%
520	4	Surface	**Totals**		**1.17E-06**	**8.61E-06**	**1.33E-06**	**6.55E-06**	**1.76E-05**	
520	4	Surface	**Percent**		**6.60%**	**48.79%**	**7.51%**	**37.10%**		
520	5	Surface	Chromium	3.68E+01			1.22E-06		1.22E-06	13.26%
520	5	Surface	Neptunium-237	1.55E-01	7.85E-09		5.53E-10	5.63E-07	5.72E-07	6.22%
520	5	Surface	Nickel	1.47E+02			1.51E-08		1.51E-08	0.16%
520	5	Surface	Total PAH	3.87E-01	4.94E-07	6.04E-06	1.00E-08		6.54E-06	71.09%
520	5	Surface	Uranium-238	1.45E+00	9.52E-08		2.73E-09	7.55E-07	8.53E-07	9.27%
520	5	Surface	**Totals**		**5.97E-07**	**6.04E-06**	**1.25E-06**	**1.32E-06**	**9.20E-06**	
520	5	Surface	**Percent**		**6.49%**	**65.61%**	**13.57%**	**14.33%**		
531	1	Surface	Arsenic	4.68E+01	1.23E-05	3.46E-05	7.97E-08		4.70E-05	88.72%
531	1	Surface	Cadmium	3.10E+00	2.06E-07	7.74E-07	2.20E-09		9.82E-07	1.86%
531	1	Surface	Chromium	5.05E+01			1.67E-06		1.67E-06	3.16%
531	1	Surface	Nickel	1.62E+02			1.66E-08		1.66E-08	0.03%
531	1	Surface	Total PAH	5.34E-02	6.81E-08	8.32E-07	1.38E-09		9.01E-07	1.70%
531	1	Surface	Uranium-235	1.38E-01	7.03E-09		2.81E-10	3.42E-07	3.49E-07	0.66%
531	1	Surface	Uranium-238	3.48E+00	2.28E-07		6.56E-09	1.81E-06	2.05E-06	3.87%
531	1	Surface	**Totals**		**1.28E-05**	**3.62E-05**	**1.78E-06**	**2.15E-06**	**5.29E-05**	
531	1	Surface	**Percent**		**24.15%**	**68.42%**	**3.36%**	**4.07%**		
541	1	Surface	Americium-241	7.53E+00	5.11E-07		4.27E-08	9.49E-07	1.50E-06	0.14%
541	1	Surface	Beryllium	6.98E-01	5.24E-07	4.93E-05	6.61E-10		4.98E-05	4.55%
541	1	Surface	Cadmium	1.68E+00	1.12E-07	4.20E-07	1.19E-09		5.33E-07	0.05%
541	1	Surface	Cesium-137	9.58E-01	1.30E-08		2.30E-12	1.11E-05	1.11E-05	1.02%
541	1	Surface	Chromium	8.24E+02			2.73E-05		2.73E-05	2.50%
541	1	Surface	Cobalt-60	1.01E-02	1.27E-10		7.29E-14	5.72E-07	5.72E-07	0.05%
541	1	Surface	Naphthalene	6.55E-01			2.93E-07		2.93E-07	0.03%
541	1	Surface	Neptunium-237	5.52E-02	2.79E-09		1.97E-10	2.01E-07	2.04E-07	0.02%
541	1	Surface	Nickel	1.52E+01			1.56E-09		1.56E-09	0.00%
541	1	Surface	PCB, Total	6.06E+01	2.12E-05	2.79E-04	2.30E-05		3.23E-04	29.51%
541	1	Surface	Total PAH	2.33E+00	2.97E-06	3.63E-05	6.02E-08		3.93E-05	3.59%
541	1	Surface	Uranium-234	1.43E+02	7.06E-06		3.28E-07	1.64E-07	7.55E-06	0.69%
541	1	Surface	Uranium-235	1.76E+01	8.94E-07		3.58E-08	4.35E-05	4.45E-05	4.06%
541	1	Surface	Uranium-238	1.00E+03	6.57E-05		1.89E-06	5.21E-04	5.89E-04	53.79%
541	1	Surface	**Totals**		**9.90E-05**	**3.65E-04**	**5.30E-05**	**5.78E-04**	**1.09E-03**	
541	1	Surface	**Percent**		**9.04%**	**33.33%**	**4.84%**	**52.78%**		
561	1	Surface	Arsenic	1.66E+01	4.34E-06	1.22E-05	2.82E-08		1.66E-05	11.27%
561	1	Surface	Beryllium	6.85E-01	5.15E-07	4.84E-05	6.49E-10		4.89E-05	33.18%
561	1	Surface	Chromium	8.58E+01			2.84E-06		2.84E-06	1.93%
561	1	Surface	Cobalt	1.07E+01			3.80E-08		3.80E-08	0.03%
561	1	Surface	Cobalt-60	7.06E-02	8.89E-10		5.10E-13	4.00E-06	4.00E-06	2.71%
561	1	Surface	Neptunium-237	2.71E-02	1.37E-09		9.67E-11	9.85E-08	1.00E-07	0.07%
561	1	Surface	PCB, Total	1.04E+00	3.64E-07	4.79E-06	3.96E-07		5.55E-06	3.77%
561	1	Surface	Total PAH	1.65E-01	2.11E-07	2.57E-06	4.27E-09		2.79E-06	1.89%
561	1	Surface	Uranium-234	7.84E+00	3.87E-07		1.80E-08	9.02E-09	4.14E-07	0.28%
561	1	Surface	Uranium-235	1.37E+00	6.96E-08		2.78E-09	3.39E-06	3.46E-06	2.35%
561	1	Surface	Uranium-238	1.07E+02	6.99E-06		2.01E-07	5.54E-05	6.26E-05	42.52%
561	1	Surface	**Totals**		**1.29E-05**	**6.80E-05**	**3.53E-06**	**6.29E-05**	**1.47E-04**	
561	1	Surface	**Percent**		**8.74%**	**46.14%**	**2.40%**	**42.73%**		
561	2	Surface	Arsenic	1.30E+01	3.41E-06	9.62E-06	2.21E-08		1.30E-05	3.07%
561	2	Surface	Beryllium	6.34E-01	4.76E-07	4.48E-05	6.00E-10		4.52E-05	10.65%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
561	2	Surface	Cadmium	4.13E-01	2.74E-08	1.03E-07	2.93E-10		1.31E-07	0.03%
561	2	Surface	Cesium-137	4.09E-01	5.53E-09		9.81E-13	4.74E-06	4.75E-06	1.12%
561	2	Surface	Chromium	2.88E+02			9.55E-06		9.55E-06	2.25%
561	2	Surface	Cobalt	1.14E+01			4.05E-08		4.05E-08	0.01%
561	2	Surface	Cobalt-60	2.76E-02	3.48E-10		1.99E-13	1.56E-06	1.56E-06	0.37%
561	2	Surface	Neptunium-237	4.71E-02	2.38E-09		1.68E-10	1.71E-07	1.74E-07	0.04%
561	2	Surface	PCB, Total	1.64E+01	5.72E-06	7.52E-05	6.22E-06		8.72E-05	20.53%
561	2	Surface	Total PAH	4.43E-01	5.65E-07	6.90E-06	1.14E-08		7.48E-06	1.76%
561	2	Surface	Uranium-234	4.06E+01	2.01E-06		9.34E-08	4.68E-08	2.15E-06	0.51%
561	2	Surface	Uranium-235	7.09E+00	3.61E-07		1.44E-08	1.76E-05	1.80E-05	4.23%
561	2	Surface	Uranium-238	4.00E+02	2.63E-05		7.55E-07	2.08E-04	2.35E-04	55.43%
561	2	Surface	**Totals**		**3.88E-05**	**1.37E-04**	**1.67E-05**	**2.32E-04**	**4.25E-04**	
561	2	Surface	**Percent**		**9.15%**	**32.17%**	**3.93%**	**54.75%**		
562	1	Surface	Uranium-238	2.73E+00	1.79E-07		5.15E-09	1.42E-06	1.61E-06	100.00%
562	1	Surface	**Totals**		**1.79E-07**		**5.15E-09**	**1.42E-06**	**1.61E-06**	
562	1	Surface	**Percent**		**11.16%**		**0.32%**	**88.52%**		
562	2	Surface	PCB, Total	1.58E+00	5.52E-07	7.27E-06	6.01E-07		8.42E-06	2.24%
562	2	Surface	Uranium-234	5.34E+01	2.64E-06		1.23E-07	6.14E-08	2.82E-06	0.75%
562	2	Surface	Uranium-235	8.96E+00	4.56E-07		1.82E-08	2.22E-05	2.27E-05	6.04%
562	2	Surface	Uranium-238	5.81E+02	3.81E-05		1.10E-06	3.02E-04	3.42E-04	90.97%
562	2	Surface	**Totals**		**4.18E-05**	**7.27E-06**	**1.84E-06**	**3.25E-04**	**3.76E-04**	
562	2	Surface	**Percent**		**11.12%**	**1.93%**	**0.49%**	**86.45%**		
562	3	Surface	Chromium	3.82E+01			1.26E-06		1.26E-06	9.67%
562	3	Surface	PCB, Total	2.40E-01	8.39E-08	1.10E-06	9.12E-08		1.28E-06	9.78%
562	3	Surface	Total PAH	2.20E-01	2.81E-07	3.43E-06	5.68E-09		3.72E-06	28.40%
562	3	Surface	Uranium-235	1.63E-01	8.30E-09		3.32E-10	4.04E-07	4.13E-07	3.16%
562	3	Surface	Uranium-238	1.09E+01	7.15E-07		2.05E-08	5.67E-06	6.41E-06	49.00%
562	3	Surface	**Totals**		**1.09E-06**	**4.53E-06**	**1.38E-06**	**6.08E-06**	**1.31E-05**	
562	3	Surface	**Percent**		**8.32%**	**34.65%**	**10.57%**	**46.46%**		
562	4	Surface	Chromium	4.67E+01			1.55E-06		1.55E-06	54.00%
562	4	Surface	Uranium-238	2.24E+00	1.47E-07		4.22E-09	1.17E-06	1.32E-06	46.00%
562	4	Surface	**Totals**		**1.47E-07**		**1.55E-06**	**1.17E-06**	**2.86E-06**	
562	4	Surface	**Percent**		**5.13%**		**54.15%**	**40.72%**		
562	5	Surface	Chromium	1.53E+02			5.07E-06		5.07E-06	9.97%
562	5	Surface	PCB, Total	9.50E-01	3.32E-07	4.37E-06	3.61E-07		5.06E-06	9.95%
562	5	Surface	Total PAH	7.05E-02	8.99E-08	1.10E-06	1.82E-09		1.19E-06	2.34%
562	5	Surface	Uranium-234	8.57E+00	4.23E-07		1.97E-08	9.86E-09	4.53E-07	0.89%
562	5	Surface	Uranium-235	9.50E-01	4.84E-08		1.93E-09	2.36E-06	2.41E-06	4.73%
562	5	Surface	Uranium-238	6.24E+01	4.10E-06		1.18E-07	3.25E-05	3.67E-05	72.12%
562	5	Surface	**Totals**		**4.99E-06**	**5.47E-06**	**5.58E-06**	**3.48E-05**	**5.09E-05**	
562	5	Surface	**Percent**		**9.80%**	**10.75%**	**10.96%**	**68.49%**		
563	1	Surface	Cadmium	8.96E-01	5.95E-08	2.24E-07	6.36E-10		2.84E-07	1.86%
563	1	Surface	Chromium	2.85E+02			9.45E-06		9.45E-06	61.75%
563	1	Surface	PCB, Total	7.40E-01	2.59E-07	3.40E-06	2.81E-07		3.94E-06	25.78%
563	1	Surface	Uranium-238	2.76E+00	1.81E-07		5.20E-09	1.44E-06	1.62E-06	10.61%
563	1	Surface	**Totals**		**4.99E-07**	**3.63E-06**	**9.73E-06**	**1.44E-06**	**1.53E-05**	
563	1	Surface	**Percent**		**3.26%**	**23.71%**	**63.63%**	**9.39%**		
563	2	Surface	Cesium-137	6.47E-01	8.75E-09		1.55E-12	7.50E-06	7.51E-06	89.56%
563	2	Surface	Uranium-238	1.49E+00	9.78E-08		2.81E-09	7.76E-07	8.76E-07	10.44%
563	2	Surface	**Totals**		**1.07E-07**		**2.81E-09**	**8.28E-06**	**8.39E-06**	
563	2	Surface	**Percent**		**1.27%**		**0.03%**	**98.70%**		
564	1	Surface	Arsenic	4.30E+01	1.13E-05	3.18E-05	7.32E-08		4.31E-05	19.46%
564	1	Surface	Beryllium	2.12E+00	1.59E-06	1.50E-04	2.01E-09		1.51E-04	68.26%
564	1	Surface	Cadmium	1.96E+00	1.30E-07	4.89E-07	1.39E-09		6.21E-07	0.28%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.29. ELCR for the Future Industrial Worker (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
564	1	Surface	Cesium-137	6.20E-01	8.39E-09		1.49E-12	7.19E-06	7.20E-06	3.25%
564	1	Surface	Chromium	7.49E+01			2.48E-06		2.48E-06	1.12%
564	1	Surface	Nickel	2.24E+01			2.30E-09		2.30E-09	0.00%
564	1	Surface	PCB, Total	1.93E+00	6.74E-07	8.88E-06	7.34E-07		1.03E-05	4.64%
564	1	Surface	Thorium-230	5.01E+00	3.16E-07		2.88E-08	1.87E-08	3.64E-07	0.16%
564	1	Surface	Uranium-234	6.93E+00	3.42E-07		1.59E-08	7.97E-09	3.66E-07	0.17%
564	1	Surface	Uranium-235	3.87E-01	1.97E-08		7.88E-10	9.60E-07	9.80E-07	0.44%
564	1	Surface	Uranium-238	8.33E+00	5.47E-07		1.57E-08	4.34E-06	4.90E-06	2.21%
564	1	Surface	**Totals**		**1.49E-05**	**1.91E-04**	**3.36E-06**	**1.25E-05**	**2.22E-04**	
564	1	Surface	**Percent**		**6.72%**	**86.11%**	**1.51%**	**5.65%**		
567	3	Surface	Chromium	3.79E+01			1.26E-06		1.26E-06	100.00%
567	3	Surface	**Totals**				**1.26E-06**		**1.26E-06**	
567	3	Surface	**Percent**				**100.00%**			
567	4	Surface	Chromium	1.63E+01			5.40E-07		5.40E-07	46.69%
567	4	Surface	Uranium-238	1.05E+00	6.88E-08		1.98E-09	5.46E-07	6.17E-07	53.31%
567	4	Surface	**Totals**		**6.88E-08**		**5.42E-07**	**5.46E-07**	**1.16E-06**	
567	4	Surface	**Percent**		**5.95%**		**46.86%**	**47.19%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
1	1	Surface	Beryllium	3.89E+00	2.08E-05	2.03E-04	2.73E-09		2.24E-04	86.75%
1	1	Surface	Cadmium	1.10E+00	5.19E-07	2.03E-07	5.78E-10		7.23E-07	0.28%
1	1	Surface	Cesium-137	5.91E-01	5.68E-08		1.05E-12	5.07E-06	5.13E-06	1.98%
1	1	Surface	Chromium	1.28E+01			3.14E-07		3.14E-07	0.12%
1	1	Surface	Neptunium-237	4.02E-01	1.45E-07		1.06E-09	1.08E-06	1.23E-06	0.47%
1	1	Surface	PCB, Total	1.76E-01	4.37E-07	5.99E-07	4.95E-08		1.09E-06	0.42%
1	1	Surface	Plutonium-239/240	6.14E+00	3.76E-06		3.05E-08	4.15E-09	3.80E-06	1.47%
1	1	Surface	Thorium-230	4.40E+01	1.97E-05		1.87E-07	1.22E-07	2.00E-05	7.76%
1	1	Surface	Uranium-235	1.06E-01	3.84E-08		1.60E-10	1.94E-07	2.33E-07	0.09%
1	1	Surface	Uranium-238	1.97E+00	9.20E-07		2.75E-09	7.60E-07	1.68E-06	0.65%
1	1	Surface	**Totals**		**4.64E-05**	**2.04E-04**	**5.89E-07**	**7.23E-06**	**2.58E-04**	
1	1	Surface	**Percent**		**17.95%**	**79.02%**	**0.23%**	**2.80%**		
1	2	Surface	Beryllium	8.23E+00	4.39E-05	4.30E-04	5.77E-09		4.74E-04	69.50%
1	2	Surface	Cadmium	6.46E+00	3.05E-06	1.19E-06	3.40E-09		4.24E-06	0.62%
1	2	Surface	Chromium	2.01E+02			4.93E-06		4.93E-06	0.72%
1	2	Surface	Nickel	5.75E+01			4.36E-09		4.36E-09	0.00%
1	2	Surface	PCB, Total	3.22E+01	8.00E-05	1.10E-04	9.06E-06		1.99E-04	29.15%
1	2	Surface	**Totals**		**1.27E-04**	**5.41E-04**	**1.40E-05**		**6.82E-04**	
1	2	Surface	**Percent**		**18.62%**	**79.32%**	**2.06%**			
1	3	Surface	Chromium	1.45E+01			3.55E-07		3.55E-07	11.20%
1	3	Surface	PCB, Total	2.17E-01	5.39E-07	7.38E-07	6.10E-08		1.34E-06	42.24%
1	3	Surface	Uranium-238	1.73E+00	8.07E-07		2.41E-09	6.66E-07	1.48E-06	46.56%
1	3	Surface	**Totals**		**1.35E-06**	**7.38E-07**	**4.18E-07**	**6.66E-07**	**3.17E-06**	
1	3	Surface	**Percent**		**42.46%**	**23.31%**	**13.20%**	**21.03%**		
1	4	Surface	Beryllium	7.25E-01	3.87E-06	3.79E-05	5.08E-10		4.17E-05	86.88%
1	4	Surface	Chromium	9.30E+01			2.28E-06		2.28E-06	4.75%
1	4	Surface	Cobalt-60	2.20E-02	1.97E-09		1.18E-13	9.22E-07	9.24E-07	1.92%
1	4	Surface	Nickel	4.69E+01			3.56E-09		3.56E-09	0.01%
1	4	Surface	PCB, Total	1.30E-01	3.23E-07	4.42E-07	3.66E-08		8.02E-07	1.67%
1	4	Surface	Thorium-230	5.03E+00	2.26E-06		2.14E-08	1.39E-08	2.29E-06	4.77%
1	4	Surface	**Totals**		**6.45E-06**	**3.83E-05**	**2.34E-06**	**9.36E-07**	**4.80E-05**	
1	4	Surface	**Percent**		**13.43%**	**79.75%**	**4.88%**	**1.95%**		
1	5	Surface	Beryllium	8.30E+00	4.43E-05	4.34E-04	5.82E-09		4.78E-04	99.07%
1	5	Surface	Cadmium	1.20E+00	5.66E-07	2.22E-07	6.31E-10		7.88E-07	0.16%
1	5	Surface	Nickel	4.07E+01			3.09E-09		3.09E-09	0.00%
1	5	Surface	PCB, Total	2.70E-01	6.70E-07	9.19E-07	7.59E-08		1.67E-06	0.35%
1	5	Surface	Total PAH	9.83E-02	8.91E-07	1.13E-06	1.88E-09		2.03E-06	0.42%
1	5	Surface	**Totals**		**4.64E-05**	**4.36E-04**	**8.74E-08**		**4.82E-04**	
1	5	Surface	**Percent**		**9.63%**	**90.36%**	**0.02%**			
12	1	Surface	Arsenic	1.34E+01	2.49E-05	7.32E-06	1.69E-08		3.23E-05	6.55%
12	1	Surface	Beryllium	6.72E+00	3.59E-05	3.51E-04	4.71E-09		3.87E-04	78.48%
12	1	Surface	Cadmium	1.02E+00	4.81E-07	1.88E-07	5.36E-10		6.70E-07	0.14%
12	1	Surface	Chromium	6.33E+01			1.55E-06		1.55E-06	0.31%
12	1	Surface	Cobalt	9.16E+00			2.41E-08		2.41E-08	0.00%
12	1	Surface	Nickel	7.74E+01			5.88E-09		5.88E-09	0.00%
12	1	Surface	PCB, Total	3.90E-01	9.68E-07	1.33E-06	1.10E-07		2.41E-06	0.49%
12	1	Surface	Total PAH	1.70E-01	1.54E-06	1.96E-06	3.25E-09		3.50E-06	0.71%
12	1	Surface	Uranium-234	1.50E+01	5.27E-06		2.55E-08	1.28E-08	5.31E-06	1.08%
12	1	Surface	Uranium-235	1.53E+00	5.52E-07		2.30E-09	2.80E-06	3.35E-06	0.68%
12	1	Surface	Uranium-238	6.68E+01	3.12E-05		9.32E-08	2.57E-05	5.70E-05	11.56%
12	1	Surface	**Totals**		**1.01E-04**	**3.62E-04**	**1.84E-06**	**2.86E-05**	**4.93E-04**	
12	1	Surface	**Percent**		**20.44%**	**73.39%**	**0.37%**	**5.79%**		
13	1	Surface	PCB, Total	7.00E-01	1.74E-06	2.38E-06	1.97E-07		4.32E-06	100.00%
13	1	Surface	**Totals**		**1.74E-06**	**2.38E-06**	**1.97E-07**		**4.32E-06**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
13	1	Surface	**Percent**		**40.26%**	**55.18%**	**4.56%**			
13	4	Surface	Uranium-238	1.32E+00	6.15E-07		1.84E-09	5.08E-07	1.13E-06	100.00%
13	4	Surface	**Totals**		**6.15E-07**		**1.84E-09**	**5.08E-07**	**1.13E-06**	
13	4	Surface	**Percent**		**54.67%**		**0.16%**	**45.17%**		
13	5	Surface	Cadmium	1.20E+00	5.66E-07	2.22E-07	6.31E-10		7.88E-07	8.75%
13	5	Surface	Chromium	1.51E+01			3.70E-07		3.70E-07	4.11%
13	5	Surface	Nickel	1.17E+02			8.84E-09		8.84E-09	0.10%
13	5	Surface	PCB, Total	1.05E+00	2.60E-06	3.57E-06	2.95E-07		6.47E-06	71.82%
13	5	Surface	Total PAH	6.65E-02	6.02E-07	7.67E-07	1.27E-09		1.37E-06	15.21%
13	5	Surface	**Totals**		**3.77E-06**	**4.56E-06**	**6.76E-07**		**9.01E-06**	
13	5	Surface	**Percent**		**41.88%**	**50.61%**	**7.51%**			
13	6	Surface	Uranium-238	1.32E+00	6.14E-07		1.84E-09	5.07E-07	1.12E-06	100.00%
13	6	Surface	**Totals**		**6.14E-07**		**1.84E-09**	**5.07E-07**	**1.12E-06**	
13	6	Surface	**Percent**		**54.67%**		**0.16%**	**45.17%**		
13	9	Surface	Neptunium-237	8.90E-01	3.20E-07		2.35E-09	2.39E-06	2.72E-06	31.64%
13	9	Surface	Uranium-235	3.11E-01	1.13E-07		4.69E-10	5.71E-07	6.84E-07	7.96%
13	9	Surface	Uranium-238	6.08E+00	2.83E-06		8.48E-09	2.34E-06	5.19E-06	60.40%
13	9	Surface	**Totals**		**3.27E-06**		**1.13E-08**	**5.31E-06**	**8.58E-06**	
13	9	Surface	**Percent**		**38.06%**		**0.13%**	**61.81%**		
13	11	Surface	Cobalt-60	1.30E-02	1.16E-09		6.94E-14	5.45E-07	5.46E-07	100.00%
13	11	Surface	**Totals**		**1.16E-09**		**6.94E-14**	**5.45E-07**	**5.46E-07**	
13	11	Surface	**Percent**		**0.21%**		**0.00%**	**99.79%**		
14	1	Surface	Americium-241	1.27E+00	6.10E-07		5.31E-09	1.18E-07	7.34E-07	1.79%
14	1	Surface	Arsenic	1.10E+01	2.04E-05	6.01E-06	1.38E-08		2.65E-05	64.60%
14	1	Surface	Chromium	6.36E+01			1.56E-06		1.56E-06	3.81%
14	1	Surface	Neptunium-237	2.14E-01	7.70E-08		5.65E-10	5.76E-07	6.53E-07	1.59%
14	1	Surface	Nickel	1.40E+02			1.06E-08		1.06E-08	0.03%
14	1	Surface	PCB, Total	5.00E-01	1.24E-06	1.70E-06	1.41E-07		3.08E-06	7.53%
14	1	Surface	Technetium-99	4.06E+02	6.90E-06		8.54E-10	1.12E-07	7.02E-06	17.13%
14	1	Surface	Uranium-238	1.69E+00	7.88E-07		2.36E-09	6.51E-07	1.44E-06	3.52%
14	1	Surface	**Totals**		**3.01E-05**	**7.71E-06**	**1.73E-06**	**1.46E-06**	**4.10E-05**	
14	1	Surface	**Percent**		**73.40%**	**18.82%**	**4.23%**	**3.56%**		
14	2	Surface	Arsenic	1.45E+01	2.71E-05	7.95E-06	1.83E-08		3.50E-05	22.49%
14	2	Surface	Beryllium	7.10E-01	3.79E-06	3.71E-05	4.98E-10		4.09E-05	26.25%
14	2	Surface	Chromium	6.65E+01			1.63E-06		1.63E-06	1.05%
14	2	Surface	Neptunium-237	7.70E-01	2.77E-07		2.03E-09	2.07E-06	2.35E-06	1.51%
14	2	Surface	Nickel	6.78E+02			5.15E-08		5.15E-08	0.03%
14	2	Surface	PCB, Total	3.90E-01	9.68E-07	1.33E-06	1.10E-07		2.41E-06	1.54%
14	2	Surface	Thorium-230	5.98E+00	2.68E-06		2.54E-08	1.65E-08	2.72E-06	1.75%
14	2	Surface	Total PAH	3.38E-01	3.06E-06	3.90E-06	6.47E-09		6.97E-06	4.48%
14	2	Surface	Uranium-234	3.24E+01	1.14E-05		5.51E-08	2.76E-08	1.14E-05	7.35%
14	2	Surface	Uranium-235	2.00E+00	7.24E-07		3.01E-09	3.67E-06	4.40E-06	2.82%
14	2	Surface	Uranium-238	5.61E+01	2.62E-05		7.83E-08	2.16E-05	4.78E-05	30.72%
14	2	Surface	**Totals**		**7.61E-05**	**5.03E-05**	**1.98E-06**	**2.74E-05**	**1.56E-04**	
14	2	Surface	**Percent**		**48.86%**	**32.28%**	**1.27%**	**17.59%**		
14	3	Surface	Arsenic	1.30E+01	2.41E-05	7.09E-06	1.63E-08		3.13E-05	35.68%
14	3	Surface	Chromium	7.01E+01			1.72E-06		1.72E-06	1.96%
14	3	Surface	Nickel	5.76E+02			4.38E-08		4.38E-08	0.05%
14	3	Surface	PCB, Total	8.65E+00	2.15E-05	2.94E-05	2.43E-06		5.33E-05	60.85%
14	3	Surface	Uranium-238	1.50E+00	6.99E-07		2.09E-09	5.78E-07	1.28E-06	1.46%
14	3	Surface	**Totals**		**4.63E-05**	**3.65E-05**	**4.21E-06**	**5.78E-07**	**8.76E-05**	
14	3	Surface	**Percent**		**52.86%**	**41.68%**	**4.81%**	**0.66%**		
14	4	Surface	Arsenic	1.33E+01	2.47E-05	7.26E-06	1.67E-08		3.20E-05	10.91%
14	4	Surface	Chromium	7.20E+01			1.77E-06		1.77E-06	0.60%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
14	4	Surface	Neptunium-237	2.68E+00	9.64E-07		7.08E-09	7.21E-06	8.18E-06	2.79%
14	4	Surface	Nickel	7.31E+02			5.55E-08		5.55E-08	0.02%
14	4	Surface	PCB, Total	6.61E+00	1.64E-05	2.25E-05	1.86E-06		4.07E-05	13.89%
14	4	Surface	Thorium-230	8.33E+00	3.74E-06		3.54E-08	2.31E-08	3.79E-06	1.29%
14	4	Surface	Total PAH	2.51E-01	2.27E-06	2.89E-06	4.79E-09		5.17E-06	1.76%
14	4	Surface	Uranium-234	1.13E+02	3.96E-05		1.92E-07	9.62E-08	3.99E-05	13.61%
14	4	Surface	Uranium-235	8.00E+00	2.89E-06		1.21E-08	1.47E-05	1.76E-05	5.99%
14	4	Surface	Uranium-238	1.69E+02	7.88E-05		2.36E-07	6.51E-05	1.44E-04	49.13%
14	4	Surface	**Totals**		**1.69E-04**	**3.26E-05**	**4.18E-06**	**8.71E-05**	**2.93E-04**	
14	4	Surface	**Percent**		**57.75%**	**11.13%**	**1.43%**	**29.69%**		
14	5	Surface	Arsenic	1.31E+01	2.44E-05	7.15E-06	1.65E-08		3.15E-05	19.29%
14	5	Surface	Cadmium	3.90E+00	1.84E-06	7.20E-07	2.05E-09		2.56E-06	1.57%
14	5	Surface	Chromium	4.70E+01			1.15E-06		1.15E-06	0.70%
14	5	Surface	Cobalt	1.40E+01			3.68E-08		3.68E-08	0.02%
14	5	Surface	Neptunium-237	1.74E+00	6.26E-07		4.59E-09	4.68E-06	5.31E-06	3.25%
14	5	Surface	Nickel	4.61E+02			3.50E-08		3.50E-08	0.02%
14	5	Surface	PCB, Total	1.00E+00	2.48E-06	3.40E-06	2.81E-07		6.17E-06	3.77%
14	5	Surface	Technetium-99	1.01E+02	1.72E-06		2.12E-10	2.78E-08	1.75E-06	1.07%
14	5	Surface	Thorium-230	1.39E+01	6.23E-06		5.91E-08	3.85E-08	6.33E-06	3.87%
14	5	Surface	Total PAH	1.21E-01	1.10E-06	1.40E-06	2.31E-09		2.49E-06	1.53%
14	5	Surface	Uranium-234	5.22E+01	1.83E-05		8.88E-08	4.44E-08	1.84E-05	11.28%
14	5	Surface	Uranium-235	3.33E+00	1.20E-06		5.02E-09	6.11E-06	7.32E-06	4.48%
14	5	Surface	Uranium-238	9.42E+01	4.39E-05		1.31E-07	3.63E-05	8.03E-05	49.15%
14	5	Surface	**Totals**		**1.02E-04**	**1.27E-05**	**1.81E-06**	**4.72E-05**	**1.63E-04**	
14	5	Surface	**Percent**		**62.27%**	**7.75%**	**1.11%**	**28.87%**		
14	6	Surface	Cadmium	8.40E-01	3.96E-07	1.55E-07	4.41E-10		5.52E-07	0.50%
14	6	Surface	Chromium	4.46E+02			1.09E-05		1.09E-05	9.87%
14	6	Surface	Neptunium-237	2.65E+00	9.53E-07		7.00E-09	7.13E-06	8.09E-06	7.30%
14	6	Surface	Nickel	9.63E+02			7.31E-08		7.31E-08	0.07%
14	6	Surface	PCB, Total	5.00E+00	1.24E-05	1.70E-05	1.41E-06		3.08E-05	27.82%
14	6	Surface	Uranium-234	3.41E+01	1.20E-05		5.80E-08	2.90E-08	1.20E-05	10.87%
14	6	Surface	Uranium-235	2.27E+00	8.21E-07		3.42E-09	4.16E-06	4.99E-06	4.50%
14	6	Surface	Uranium-238	5.08E+01	2.37E-05		7.09E-08	1.96E-05	4.33E-05	39.08%
14	6	Surface	**Totals**		**5.02E-05**	**1.72E-05**	**1.26E-05**	**3.09E-05**	**1.11E-04**	
14	6	Surface	**Percent**		**45.31%**	**15.49%**	**11.33%**	**27.87%**		
14	7	Surface	Arsenic	1.13E+01	2.10E-05	6.18E-06	1.42E-08		2.72E-05	25.16%
14	7	Surface	Cadmium	2.70E+00	1.27E-06	4.99E-07	1.42E-09		1.77E-06	1.64%
14	7	Surface	Chromium	6.46E+01			1.58E-06		1.58E-06	1.46%
14	7	Surface	Neptunium-237	1.49E+00	5.36E-07		3.93E-09	4.01E-06	4.55E-06	4.20%
14	7	Surface	Nickel	1.22E+03			9.28E-08		9.28E-08	0.09%
14	7	Surface	PCB, Total	7.60E+00	1.89E-05	2.59E-05	2.14E-06		4.69E-05	43.33%
14	7	Surface	Total PAH	6.31E-02	5.72E-07	7.28E-07	1.21E-09		1.30E-06	1.20%
14	7	Surface	Uranium-234	1.28E+01	4.49E-06		2.18E-08	1.09E-08	4.52E-06	4.18%
14	7	Surface	Uranium-235	9.60E-01	3.47E-07		1.45E-09	1.76E-06	2.11E-06	1.95%
14	7	Surface	Uranium-238	2.13E+01	9.93E-06		2.97E-08	8.20E-06	1.82E-05	16.78%
14	7	Surface	**Totals**		**5.71E-05**	**3.33E-05**	**3.89E-06**	**1.40E-05**	**1.08E-04**	
14	7	Surface	**Percent**		**52.73%**	**30.76%**	**3.59%**	**12.92%**		
14	8	Surface	Arsenic	1.14E+01	2.12E-05	6.22E-06	1.43E-08		2.74E-05	39.75%
14	8	Surface	Chromium	4.60E+01			1.13E-06		1.13E-06	1.64%
14	8	Surface	Neptunium-237	8.80E-01	3.16E-07		2.32E-09	2.37E-06	2.69E-06	3.89%
14	8	Surface	Nickel	6.73E+02			5.10E-08		5.10E-08	0.07%
14	8	Surface	PCB, Total	5.00E+00	1.24E-05	1.70E-05	1.41E-06		3.08E-05	44.69%
14	8	Surface	Total PAH	6.28E-02	5.69E-07	7.24E-07	1.20E-09		1.29E-06	1.88%
14	8	Surface	Uranium-235	2.38E-01	8.61E-08		3.59E-10	4.37E-07	5.23E-07	0.76%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
14	8	Surface	Uranium-238	5.92E+00	2.76E-06		8.26E-09	2.28E-06	5.05E-06	7.32%
14	8	Surface	**Totals**		**3.73E-05**	**2.40E-05**	**2.61E-06**	**5.08E-06**	**6.90E-05**	
14	8	Surface	**Percent**		**54.11%**	**34.73%**	**3.79%**	**7.37%**		
14	9	Surface	Arsenic	1.40E+01	2.61E-05	7.68E-06	1.77E-08		3.38E-05	2.16%
14	9	Surface	Cadmium	9.40E-01	4.43E-07	1.74E-07	4.94E-10		6.18E-07	0.04%
14	9	Surface	Cesium-137	4.53E-01	4.35E-08		8.04E-13	3.89E-06	3.93E-06	0.25%
14	9	Surface	Chromium	4.64E+01			1.14E-06		1.14E-06	0.07%
14	9	Surface	Neptunium-237	1.09E+01	3.93E-06		2.89E-08	2.94E-05	3.34E-05	2.13%
14	9	Surface	Nickel	9.43E+02			7.16E-08		7.16E-08	0.00%
14	9	Surface	PCB, Total	6.84E+00	1.70E-05	2.33E-05	1.92E-06		4.22E-05	2.69%
14	9	Surface	Technetium-99	1.96E+02	3.33E-06		4.12E-10	5.39E-08	3.39E-06	0.22%
14	9	Surface	Total PAH	4.87E-01	4.42E-06	5.62E-06	9.32E-09		1.00E-05	0.64%
14	9	Surface	Uranium-234	8.32E+02	2.92E-04		1.42E-06	7.09E-07	2.94E-04	18.78%
14	9	Surface	Uranium-235	5.46E+01	1.97E-05		8.22E-08	1.00E-04	1.20E-04	7.66%
14	9	Surface	Uranium-238	1.20E+03	5.59E-04		1.67E-06	4.62E-04	1.02E-03	65.36%
14	9	Surface	**Totals**		**9.26E-04**	**3.68E-05**	**6.36E-06**	**5.96E-04**	**1.57E-03**	
14	9	Surface	**Percent**		**59.16%**	**2.35%**	**0.41%**	**38.09%**		
14	10	Surface	Arsenic	1.12E+01	2.09E-05	6.15E-06	1.42E-08		2.71E-05	18.43%
14	10	Surface	Chromium	4.19E+01			1.03E-06		1.03E-06	0.70%
14	10	Surface	Neptunium-237	2.64E+00	9.49E-07		6.97E-09	7.10E-06	8.06E-06	5.48%
14	10	Surface	Nickel	6.00E+02			4.56E-08		4.56E-08	0.03%
14	10	Surface	PCB, Total	9.38E+00	2.33E-05	3.19E-05	2.64E-06		5.79E-05	39.36%
14	10	Surface	Total PAH	2.72E-01	2.46E-06	3.13E-06	5.19E-09		5.60E-06	3.81%
14	10	Surface	Uranium-234	2.42E+01	8.49E-06		4.12E-08	2.06E-08	8.55E-06	5.82%
14	10	Surface	Uranium-235	1.76E+00	6.37E-07		2.65E-09	3.23E-06	3.87E-06	2.63%
14	10	Surface	Uranium-238	4.09E+01	1.91E-05		5.71E-08	1.58E-05	3.49E-05	23.73%
14	10	Surface	**Totals**		**7.58E-05**	**4.12E-05**	**3.84E-06**	**2.61E-05**	**1.47E-04**	
14	10	Surface	**Percent**		**51.59%**	**28.04%**	**2.61%**	**17.76%**		
15	1	Surface	Arsenic	1.24E+01	2.30E-05	6.77E-06	1.56E-08		2.98E-05	43.46%
15	1	Surface	Chromium	5.61E+01			1.38E-06		1.38E-06	2.01%
15	1	Surface	Nickel	1.33E+02			1.01E-08		1.01E-08	0.01%
15	1	Surface	PCB, Total	7.80E-02	1.94E-07	2.65E-07	2.19E-08		4.81E-07	0.70%
15	1	Surface	Total PAH	1.71E+00	1.55E-05	1.98E-05	3.28E-08		3.53E-05	51.52%
15	1	Surface	Uranium-238	1.85E+00	8.62E-07		2.58E-09	7.13E-07	1.58E-06	2.30%
15	1	Surface	**Totals**		**3.96E-05**	**2.68E-05**	**1.46E-06**	**7.13E-07**	**6.86E-05**	
15	1	Surface	**Percent**		**57.76%**	**39.08%**	**2.13%**	**1.04%**		
15	2	Surface	Arsenic	1.63E+01	3.03E-05	8.89E-06	2.05E-08		3.92E-05	39.19%
15	2	Surface	Chromium	5.90E+01			1.45E-06		1.45E-06	1.45%
15	2	Surface	Neptunium-237	1.35E-01	4.86E-08		3.56E-10	3.63E-07	4.12E-07	0.41%
15	2	Surface	Nickel	1.97E+02			1.50E-08		1.50E-08	0.01%
15	2	Surface	PCB, Total	3.30E-01	8.19E-07	1.12E-06	9.28E-08		2.04E-06	2.04%
15	2	Surface	Total PAH	2.11E+00	1.91E-05	2.43E-05	4.03E-08		4.35E-05	43.45%
15	2	Surface	Uranium-234	6.51E+00	2.28E-06		1.11E-08	5.54E-09	2.30E-06	2.30%
15	2	Surface	Uranium-235	3.80E-01	1.38E-07		5.73E-10	6.97E-07	8.35E-07	0.84%
15	2	Surface	Uranium-238	1.21E+01	5.64E-06		1.69E-08	4.66E-06	1.03E-05	10.32%
15	2	Surface	**Totals**		**5.83E-05**	**3.43E-05**	**1.64E-06**	**5.73E-06**	**1.00E-04**	
15	2	Surface	**Percent**		**58.30%**	**34.33%**	**1.64%**	**5.73%**		
15	3	Surface	Arsenic	2.60E+01	4.84E-05	1.42E-05	3.27E-08		6.26E-05	19.17%
15	3	Surface	Beryllium	7.60E-01	4.06E-06	3.97E-05	5.33E-10		4.38E-05	13.39%
15	3	Surface	Cadmium	1.19E+01	5.61E-06	2.20E-06	6.25E-09		7.82E-06	2.39%
15	3	Surface	Chromium	7.53E+01			1.85E-06		1.85E-06	0.57%
15	3	Surface	Cobalt	3.41E+01			8.96E-08		8.96E-08	0.03%
15	3	Surface	Neptunium-237	4.10E+00	1.47E-06		1.08E-08	1.10E-05	1.25E-05	3.83%
15	3	Surface	Nickel	7.57E+02			5.74E-08		5.74E-08	0.02%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
15	3	Surface	PCB, Total	6.82E+00	1.69E-05	2.32E-05	1.92E-06		4.21E-05	12.88%
15	3	Surface	Technetium-99	3.67E+02	6.24E-06		7.72E-10	1.01E-07	6.34E-06	1.94%
15	3	Surface	Thorium-230	7.23E+00	3.24E-06		3.07E-08	2.00E-08	3.29E-06	1.01%
15	3	Surface	Total PAH	1.45E+00	1.32E-05	1.68E-05	2.78E-08		3.00E-05	9.17%
15	3	Surface	Uranium-234	6.96E+01	2.44E-05		1.18E-07	5.93E-08	2.46E-05	7.53%
15	3	Surface	Uranium-235	4.21E+00	1.52E-06		6.34E-09	7.72E-06	9.25E-06	2.83%
15	3	Surface	Uranium-238	9.67E+01	4.51E-05		1.35E-07	3.72E-05	8.25E-05	25.24%
15	3	Surface	**Totals**		**1.70E-04**	**9.61E-05**	**4.28E-06**	**5.62E-05**	**3.27E-04**	
15	3	Surface	**Percent**		**52.08%**	**29.42%**	**1.31%**	**17.20%**		
15	4	Surface	Arsenic	3.47E+01	6.45E-05	1.90E-05	4.36E-08		8.35E-05	25.67%
15	4	Surface	Cadmium	1.40E+00	6.60E-07	2.59E-07	7.36E-10		9.20E-07	0.28%
15	4	Surface	Chromium	1.02E+02			2.51E-06		2.51E-06	0.77%
15	4	Surface	Neptunium-237	8.00E-01	2.88E-07		2.11E-09	2.15E-06	2.44E-06	0.75%
15	4	Surface	Nickel	1.37E+03			1.04E-07		1.04E-07	0.03%
15	4	Surface	PCB, Total	2.67E+01	6.63E-05	9.09E-05	7.52E-06		1.65E-04	50.65%
15	4	Surface	Total PAH	2.44E+00	2.22E-05	2.82E-05	4.67E-08		5.04E-05	15.49%
15	4	Surface	Uranium-234	1.07E+01	3.75E-06		1.82E-08	9.11E-09	3.78E-06	1.16%
15	4	Surface	Uranium-235	4.30E-01	1.56E-07		6.48E-10	7.89E-07	9.45E-07	0.29%
15	4	Surface	Uranium-238	1.87E+01	8.72E-06		2.61E-08	7.20E-06	1.59E-05	4.90%
15	4	Surface	**Totals**		**1.67E-04**	**1.38E-04**	**1.03E-05**	**1.02E-05**	**3.25E-04**	
15	4	Surface	**Percent**		**51.20%**	**42.52%**	**3.15%**	**3.12%**		
15	5	Surface	Arsenic	1.28E+01	2.38E-05	7.00E-06	1.61E-08		3.08E-05	14.39%
15	5	Surface	Cadmium	1.50E+00	7.08E-07	2.77E-07	7.88E-10		9.85E-07	0.46%
15	5	Surface	Chromium	4.28E+01			1.05E-06		1.05E-06	0.49%
15	5	Surface	Neptunium-237	6.90E-01	2.48E-07		1.82E-09	1.86E-06	2.11E-06	0.98%
15	5	Surface	Nickel	5.10E+02			3.87E-08		3.87E-08	0.02%
15	5	Surface	PCB, Total	2.51E+01	6.24E-05	8.55E-05	7.07E-06		1.55E-04	72.35%
15	5	Surface	Technetium-99	1.07E+02	1.82E-06		2.25E-10	2.94E-08	1.85E-06	0.86%
15	5	Surface	Total PAH	5.11E-01	4.63E-06	5.89E-06	9.76E-09		1.05E-05	4.91%
15	5	Surface	Uranium-234	5.83E+00	2.04E-06		9.92E-09	4.96E-09	2.06E-06	0.96%
15	5	Surface	Uranium-235	4.60E-01	1.66E-07		6.93E-10	8.44E-07	1.01E-06	0.47%
15	5	Surface	Uranium-238	1.03E+01	4.80E-06		1.44E-08	3.97E-06	8.78E-06	4.10%
15	5	Surface	**Totals**		**1.01E-04**	**9.87E-05**	**8.21E-06**	**6.70E-06**	**2.14E-04**	
15	5	Surface	**Percent**		**46.97%**	**46.07%**	**3.83%**	**3.13%**		
15	6	Surface	Arsenic	1.24E+01	2.31E-05	6.80E-06	1.57E-08		3.00E-05	24.29%
15	6	Surface	Cadmium	1.50E+00	7.08E-07	2.77E-07	7.88E-10		9.85E-07	0.80%
15	6	Surface	Chromium	5.80E+01			1.42E-06		1.42E-06	1.15%
15	6	Surface	Cobalt	1.62E+01			4.26E-08		4.26E-08	0.03%
15	6	Surface	Neptunium-237	6.40E-01	2.30E-07		1.69E-09	1.72E-06	1.95E-06	1.58%
15	6	Surface	Nickel	3.24E+02			2.46E-08		2.46E-08	0.02%
15	6	Surface	PCB, Total	6.17E+00	1.53E-05	2.10E-05	1.73E-06		3.80E-05	30.82%
15	6	Surface	Total PAH	1.62E+00	1.47E-05	1.87E-05	3.10E-08		3.35E-05	27.13%
15	6	Surface	Uranium-234	8.74E+00	3.07E-06		1.49E-08	7.44E-09	3.09E-06	2.50%
15	6	Surface	Uranium-235	5.70E-01	2.06E-07		8.59E-10	1.05E-06	1.25E-06	1.02%
15	6	Surface	Uranium-238	1.54E+01	7.18E-06		2.15E-08	5.93E-06	1.31E-05	10.65%
15	6	Surface	**Totals**		**6.45E-05**	**4.68E-05**	**3.31E-06**	**8.71E-06**	**1.23E-04**	
15	6	Surface	**Percent**		**52.33%**	**37.93%**	**2.68%**	**7.06%**		
15	7	Surface	Arsenic	1.61E+01	2.99E-05	8.79E-06	2.03E-08		3.88E-05	18.13%
15	7	Surface	Cadmium	1.00E+00	4.72E-07	1.85E-07	5.26E-10		6.57E-07	0.31%
15	7	Surface	Chromium	7.87E+01			1.93E-06		1.93E-06	0.90%
15	7	Surface	Neptunium-237	2.23E-01	8.02E-08		5.89E-10	6.00E-07	6.81E-07	0.32%
15	7	Surface	Nickel	5.59E+02			4.24E-08		4.24E-08	0.02%
15	7	Surface	PCB, Total	2.57E+01	6.37E-05	8.74E-05	7.22E-06		1.58E-04	74.05%
15	7	Surface	Total PAH	1.59E-01	1.44E-06	1.83E-06	3.04E-09		3.27E-06	1.53%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
15	7	Surface	Uranium-234	6.49E+00	2.28E-06		1.10E-08	5.53E-09	2.29E-06	1.07%
15	7	Surface	Uranium-235	4.50E-01	1.63E-07		6.78E-10	8.26E-07	9.89E-07	0.46%
15	7	Surface	Uranium-238	8.05E+00	3.75E-06		1.12E-08	3.10E-06	6.87E-06	3.21%
15	7	Surface	**Totals**		**1.02E-04**	**9.82E-05**	**9.24E-06**	**4.53E-06**	**2.14E-04**	
15	7	Surface	**Percent**		**47.64%**	**45.92%**	**4.32%**	**2.12%**		
15	8	Surface	Arsenic	1.17E+01	2.17E-05	6.37E-06	1.47E-08		2.81E-05	37.41%
15	8	Surface	Chromium	7.74E+01			1.90E-06		1.90E-06	2.53%
15	8	Surface	Neptunium-237	3.65E-01	1.31E-07		9.64E-10	9.82E-07	1.11E-06	1.48%
15	8	Surface	Nickel	1.82E+02			1.38E-08		1.38E-08	0.02%
15	8	Surface	PCB, Total	4.90E+00	1.22E-05	1.67E-05	1.38E-06		3.02E-05	40.26%
15	8	Surface	Total PAH	3.59E-01	3.25E-06	4.14E-06	6.86E-09		7.40E-06	9.86%
15	8	Surface	Uranium-235	3.04E-01	1.10E-07		4.58E-10	5.58E-07	6.68E-07	0.89%
15	8	Surface	Uranium-238	6.64E+00	3.10E-06		9.26E-09	2.56E-06	5.66E-06	7.55%
15	8	Surface	**Totals**		**4.04E-05**	**2.72E-05**	**3.32E-06**	**4.10E-06**	**7.50E-05**	
15	8	Surface	**Percent**		**53.89%**	**36.22%**	**4.43%**	**5.46%**		
15	9	Surface	Arsenic	1.10E+01	2.06E-05	6.04E-06	1.39E-08		2.66E-05	62.01%
15	9	Surface	Chromium	9.56E+01			2.34E-06		2.34E-06	5.47%
15	9	Surface	Neptunium-237	1.28E-01	4.60E-08		3.38E-10	3.44E-07	3.91E-07	0.91%
15	9	Surface	Nickel	1.49E+02			1.13E-08		1.13E-08	0.03%
15	9	Surface	PCB, Total	3.30E-01	8.19E-07	1.12E-06	9.28E-08		2.04E-06	4.74%
15	9	Surface	Total PAH	2.38E-01	2.16E-06	2.75E-06	4.56E-09		4.91E-06	11.45%
15	9	Surface	Uranium-235	2.42E-01	8.76E-08		3.65E-10	4.44E-07	5.32E-07	1.24%
15	9	Surface	Uranium-238	7.12E+00	3.32E-06		9.93E-09	2.74E-06	6.07E-06	14.15%
15	9	Surface	**Totals**		**2.70E-05**	**9.91E-06**	**2.48E-06**	**3.53E-06**	**4.29E-05**	
15	9	Surface	**Percent**		**62.90%**	**23.10%**	**5.78%**	**8.23%**		
15	10	Surface	Chromium	3.55E+01			8.71E-07		8.71E-07	24.67%
15	10	Surface	Nickel	1.46E+02			1.11E-08		1.11E-08	0.31%
15	10	Surface	Total PAH	1.28E-01	1.16E-06	1.48E-06	2.46E-09		2.65E-06	75.02%
15	10	Surface	**Totals**		**1.16E-06**	**1.48E-06**	**8.84E-07**		**3.53E-06**	
15	10	Surface	**Percent**		**32.98%**	**41.97%**	**25.05%**			
16	1	Surface	Cesium-137	1.10E+00	1.06E-07		1.95E-12	9.44E-06	9.55E-06	89.23%
16	1	Surface	PCB, Total	9.60E-02	2.38E-07	3.27E-07	2.70E-08		5.92E-07	5.53%
16	1	Surface	Total PAH	2.72E-02	2.46E-07	3.14E-07	5.20E-10		5.61E-07	5.24%
16	1	Surface	**Totals**		**5.91E-07**	**6.40E-07**	**2.75E-08**	**9.44E-06**	**1.07E-05**	
16	1	Surface	**Percent**		**5.52%**	**5.99%**	**0.26%**	**88.24%**		
16	2	Surface	Beryllium	8.40E-01	4.48E-06	4.39E-05	5.89E-10		4.84E-05	98.97%
16	2	Surface	Chromium	2.04E+01			5.00E-07		5.00E-07	1.02%
16	2	Surface	Nickel	2.16E+01			1.64E-09		1.64E-09	0.00%
16	2	Surface	**Totals**		**4.48E-06**	**4.39E-05**	**5.03E-07**		**4.89E-05**	
16	2	Surface	**Percent**		**9.17%**	**89.80%**	**1.03%**			
16	3	Surface	PCB, Total	9.49E-01	2.36E-06	3.23E-06	2.67E-07		5.85E-06	100.00%
16	3	Surface	**Totals**		**2.36E-06**	**3.23E-06**	**2.67E-07**		**5.85E-06**	
16	3	Surface	**Percent**		**40.26%**	**55.18%**	**4.56%**			
16	4	Surface	Cesium-137	3.66E+01	3.52E-06		6.49E-11	3.14E-04	3.17E-04	45.37%
16	4	Surface	Cobalt-60	8.53E-03	7.63E-10		4.56E-14	3.57E-07	3.58E-07	0.05%
16	4	Surface	Neptunium-237	7.12E+00	2.56E-06		1.88E-08	1.92E-05	2.17E-05	3.11%
16	4	Surface	PCB, Total	3.20E-01	7.94E-07	1.09E-06	9.00E-08		1.97E-06	0.28%
16	4	Surface	Technetium-99	2.96E+02	5.03E-06		6.22E-10	8.13E-08	5.11E-06	0.73%
16	4	Surface	Thorium-230	5.29E+00	2.37E-06		2.25E-08	1.46E-08	2.41E-06	0.34%
16	4	Surface	Total PAH	2.93E+00	2.65E-05	3.38E-05	5.60E-08		6.04E-05	8.63%
16	4	Surface	Uranium-234	1.19E+02	4.17E-05		2.02E-07	1.01E-07	4.20E-05	6.01%
16	4	Surface	Uranium-235	8.23E+00	2.98E-06		1.24E-08	1.51E-05	1.81E-05	2.59%
16	4	Surface	Uranium-238	2.70E+02	1.26E-04		3.77E-07	1.04E-04	2.30E-04	32.90%
16	4	Surface	**Totals**		**2.11E-04**	**3.49E-05**	**7.79E-07**	**4.53E-04**	**7.00E-04**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
16	4	Surface	**Percent**		**30.21%**	**4.98%**	**0.11%**	**64.70%**		
19	1	Surface	Beryllium	1.10E+00	5.87E-06	5.75E-05	7.71E-10		6.33E-05	36.85%
19	1	Surface	Cadmium	1.20E+00	5.66E-07	2.22E-07	6.31E-10		7.88E-07	0.46%
19	1	Surface	Total PAH	5.23E+00	4.74E-05	6.03E-05	9.99E-08		1.08E-04	62.69%
19	1	Surface	**Totals**		**5.38E-05**	**1.18E-04**	**1.01E-07**		**1.72E-04**	
19	1	Surface	**Percent**		**31.30%**	**68.64%**	**0.06%**			
26	1	Surface	Arsenic	1.29E+01	2.40E-05	7.04E-06	1.62E-08		3.10E-05	21.66%
26	1	Surface	Beryllium	6.69E-01	3.57E-06	3.49E-05	4.69E-10		3.85E-05	26.88%
26	1	Surface	Cadmium	1.99E+00	9.40E-07	3.68E-07	1.05E-09		1.31E-06	0.91%
26	1	Surface	Cesium-137	3.16E+00	3.04E-07		5.62E-12	2.72E-05	2.75E-05	19.16%
26	1	Surface	Chromium	1.90E+01			4.66E-07		4.66E-07	0.33%
26	1	Surface	Cobalt-60	1.93E-03	1.73E-10		1.03E-14	8.09E-08	8.10E-08	0.06%
26	1	Surface	Neptunium-237	2.61E-01	9.39E-08		6.89E-10	7.02E-07	7.97E-07	0.56%
26	1	Surface	Nickel	1.76E+01			1.34E-09		1.34E-09	0.00%
26	1	Surface	PCB, Total	9.33E-01	2.32E-06	3.18E-06	2.62E-07		5.75E-06	4.01%
26	1	Surface	Plutonium-239/240	4.04E+00	2.47E-06		2.01E-08	2.73E-09	2.50E-06	1.74%
26	1	Surface	Thorium-230	3.82E+00	1.71E-06		1.62E-08	1.06E-08	1.74E-06	1.21%
26	1	Surface	Total PAH	5.00E-02	4.53E-07	5.77E-07	9.56E-10		1.03E-06	0.72%
26	1	Surface	Uranium-234	4.67E+00	1.64E-06		7.93E-09	3.97E-09	1.65E-06	1.15%
26	1	Surface	Uranium-235	6.41E-01	2.32E-07		9.66E-10	1.18E-06	1.41E-06	0.98%
26	1	Surface	Uranium-238	3.47E+01	1.62E-05		4.84E-08	1.34E-05	2.96E-05	20.63%
26	1	Surface	**Totals**		**5.39E-05**	**4.61E-05**	**8.43E-07**	**4.25E-05**	**1.43E-04**	
26	1	Surface	**Percent**		**37.59%**	**32.17%**	**0.59%**	**29.65%**		
26	2	Surface	Arsenic	4.72E+01	8.79E-05	2.58E-05	5.95E-08		1.14E-04	14.16%
26	2	Surface	Beryllium	9.69E+00	5.17E-05	5.06E-04	6.79E-09		5.58E-04	69.47%
26	2	Surface	Cadmium	2.38E+00	1.12E-06	4.40E-07	1.25E-09		1.56E-06	0.19%
26	2	Surface	Cesium-137	5.92E+00	5.69E-07		1.05E-11	5.08E-05	5.14E-05	6.40%
26	2	Surface	Chromium	3.90E+01			9.56E-07		9.56E-07	0.12%
26	2	Surface	Cobalt	5.20E+01			1.37E-07		1.37E-07	0.02%
26	2	Surface	Neptunium-237	7.89E-01	2.84E-07		2.08E-09	2.12E-06	2.41E-06	0.30%
26	2	Surface	Nickel	1.13E+02			8.59E-09		8.59E-09	0.00%
26	2	Surface	PCB, Total	2.23E+00	5.53E-06	7.59E-06	6.27E-07		1.37E-05	1.71%
26	2	Surface	Thorium-230	1.51E+01	6.78E-06		6.43E-08	4.19E-08	6.89E-06	0.86%
26	2	Surface	Uranium-234	1.91E+01	6.69E-06		3.24E-08	1.62E-08	6.74E-06	0.84%
26	2	Surface	Uranium-235	1.71E+00	6.18E-07		2.57E-09	3.13E-06	3.75E-06	0.47%
26	2	Surface	Uranium-238	5.14E+01	2.40E-05		7.18E-08	1.98E-05	4.39E-05	5.46%
26	2	Surface	**Totals**		**1.85E-04**	**5.40E-04**	**1.97E-06**	**7.60E-05**	**8.03E-04**	
26	2	Surface	**Percent**		**23.06%**	**67.24%**	**0.25%**	**9.45%**		
26	3	Surface	Arsenic	5.09E+01	9.47E-05	2.78E-05	6.41E-08		1.23E-04	31.54%
26	3	Surface	Beryllium	2.54E+00	1.35E-05	1.32E-04	1.78E-09		1.46E-04	37.53%
26	3	Surface	Cadmium	2.34E+00	1.10E-06	4.32E-07	1.23E-09		1.54E-06	0.40%
26	3	Surface	Cesium-137	7.48E-01	7.19E-08		1.33E-12	6.42E-06	6.49E-06	1.67%
26	3	Surface	Chromium	3.25E+01			7.98E-07		7.98E-07	0.21%
26	3	Surface	Cobalt	1.21E+01			3.18E-08		3.18E-08	0.01%
26	3	Surface	Naphthalene	1.32E+00			4.37E-07		4.37E-07	0.11%
26	3	Surface	Neptunium-237	7.53E-01	2.71E-07		1.99E-09	2.03E-06	2.30E-06	0.59%
26	3	Surface	Nickel	2.97E+01			2.25E-09		2.25E-09	0.00%
26	3	Surface	PCB, Total	2.52E+00	6.25E-06	8.57E-06	7.08E-07		1.55E-05	3.99%
26	3	Surface	Technetium-99	6.48E+01	1.10E-06		1.36E-10	1.78E-08	1.12E-06	0.29%
26	3	Surface	Thorium-230	7.10E+00	3.18E-06		3.02E-08	1.96E-08	3.23E-06	0.83%
26	3	Surface	Total PAH	1.19E+00	1.08E-05	1.37E-05	2.27E-08		2.45E-05	6.30%
26	3	Surface	Uranium-234	4.63E+01	1.63E-05		7.88E-08	3.95E-08	1.64E-05	4.21%
26	3	Surface	Uranium-235	1.69E+00	6.12E-07		2.55E-09	3.10E-06	3.72E-06	0.96%
26	3	Surface	Uranium-238	5.19E+01	2.42E-05		7.23E-08	2.00E-05	4.42E-05	11.37%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
26	3	Surface	**Totals**		**1.72E-04**	**1.83E-04**	**2.25E-06**	**3.16E-05**	**3.89E-04**	
26	3	Surface	**Percent**		**44.24%**	**47.05%**	**0.58%**	**8.13%**		
26	4	Surface	Americium-241	1.27E+00	6.13E-07		5.34E-09	1.19E-07	7.37E-07	0.14%
26	4	Surface	Beryllium	6.91E-01	3.69E-06	3.61E-05	4.84E-10		3.98E-05	7.75%
26	4	Surface	Cadmium	1.99E+00	9.39E-07	3.68E-07	1.05E-09		1.31E-06	0.25%
26	4	Surface	Cesium-137	6.38E-01	6.13E-08		1.13E-12	5.48E-06	5.54E-06	1.08%
26	4	Surface	Chromium	8.57E+01			2.10E-06		2.10E-06	0.41%
26	4	Surface	Cobalt-60	1.21E-03	1.08E-10		6.46E-15	5.07E-08	5.08E-08	0.01%
26	4	Surface	Neptunium-237	1.36E+01	4.88E-06		3.58E-08	3.65E-05	4.14E-05	8.06%
26	4	Surface	Nickel	7.54E+01			5.73E-09		5.73E-09	0.00%
26	4	Surface	PCB, Total	5.54E-01	1.38E-06	1.89E-06	1.56E-07		3.42E-06	0.67%
26	4	Surface	Plutonium-239/240	5.00E+00	3.07E-06		2.49E-08	3.38E-09	3.09E-06	0.60%
26	4	Surface	Technetium-99	5.97E+02	1.02E-05		1.26E-09	1.64E-07	1.03E-05	2.01%
26	4	Surface	Thorium-230	3.26E+01	1.46E-05		1.39E-07	9.03E-08	1.49E-05	2.89%
26	4	Surface	Total PAH	2.83E-02	2.57E-07	3.27E-07	5.42E-10		5.84E-07	0.11%
26	4	Surface	Uranium-234	1.54E+02	5.42E-05		2.63E-07	1.31E-07	5.46E-05	10.62%
26	4	Surface	Uranium-235	1.08E+01	3.91E-06		1.63E-08	1.98E-05	2.37E-05	4.62%
26	4	Surface	Uranium-238	3.66E+02	1.71E-04		5.10E-07	1.41E-04	3.12E-04	60.76%
26	4	Surface	**Totals**		**2.68E-04**	**3.87E-05**	**3.26E-06**	**2.03E-04**	**5.14E-04**	
26	4	Surface	**Percent**		**52.25%**	**7.53%**	**6.35E-03**	**39.59%**		
47	1	Surface	Arsenic	4.52E+01	8.42E-05	2.47E-05	5.69E-08		1.09E-04	8.34%
47	1	Surface	Beryllium	7.00E-01	3.74E-06	3.66E-05	4.90E-10		4.03E-05	3.08%
47	1	Surface	Cadmium	4.25E+00	2.00E-06	7.85E-07	2.23E-09		2.79E-06	0.21%
47	1	Surface	Chromium	5.39E+01			1.32E-06		1.32E-06	0.10%
47	1	Surface	Cobalt	1.43E+01			3.76E-08		3.76E-08	0.00%
47	1	Surface	Naphthalene	1.90E+00			6.29E-07		6.29E-07	0.05%
47	1	Surface	Neptunium-237	1.15E-01	4.14E-08		3.04E-10	3.09E-07	3.51E-07	0.03%
47	1	Surface	Nickel	8.25E+01			6.26E-09		6.26E-09	0.00%
47	1	Surface	PCB, Total	9.60E-01	2.38E-06	3.27E-06	2.70E-07		5.92E-06	0.45%
47	1	Surface	Plutonium-239/240	4.11E+00	2.52E-06		2.04E-08	2.78E-09	2.54E-06	0.19%
47	1	Surface	Thorium-230	4.11E+01	1.84E-05		1.75E-07	1.14E-07	1.87E-05	1.43%
47	1	Surface	Total PAH	5.41E+01	4.90E-04	6.24E-04	1.03E-06		1.11E-03	85.32%
47	1	Surface	Uranium-234	6.85E+00	2.40E-06		1.17E-08	5.83E-09	2.42E-06	0.19%
47	1	Surface	Uranium-235	5.00E-01	1.81E-07		7.53E-10	9.17E-07	1.10E-06	0.08%
47	1	Surface	Uranium-238	7.93E+00	3.70E-06		1.11E-08	3.05E-06	6.76E-06	0.52%
47	1	Surface	**Totals**		**6.10E-04**	**6.89E-04**	**3.58E-06**	**4.40E-06**	**1.31E-03**	
47	1	Surface	**Percent**		**46.65%**	**52.74%**	**0.27%**	**0.34%**		
74	1	Surface	PCB, Total	2.97E+00	7.39E-06	1.01E-05	8.37E-07		1.83E-05	15.41%
74	1	Surface	Total PAH	3.16E+00	2.86E-05	3.65E-05	6.05E-08		6.52E-05	54.76%
74	1	Surface	Uranium-234	7.55E+00	2.65E-06		1.28E-08	6.43E-09	2.67E-06	2.24%
74	1	Surface	Uranium-238	3.85E+01	1.79E-05		5.37E-08	1.48E-05	3.28E-05	27.59%
74	1	Surface	**Totals**		**5.66E-05**	**4.66E-05**	**9.64E-07**	**1.48E-05**	**1.19E-04**	
74	1	Surface	**Percent**		**47.58%**	**39.14%**	**0.81%**	**12.47%**		
75	1	Surface	Cadmium	1.10E+00	5.19E-07	2.03E-07	5.78E-10		7.23E-07	8.53%
75	1	Surface	Chromium	7.17E+01			1.76E-06		1.76E-06	20.77%
75	1	Surface	Nickel	8.87E+01			6.73E-09		6.73E-09	0.08%
75	1	Surface	PCB, Total	2.30E-01	5.71E-07	7.83E-07	6.47E-08		1.42E-06	16.75%
75	1	Surface	Total PAH	2.21E-01	2.01E-06	2.55E-06	4.23E-09		4.56E-06	53.88%
75	1	Surface	**Totals**		**3.10E-06**	**3.54E-06**	**1.84E-06**		**8.47E-06**	
75	1	Surface	**Percent**		**36.55%**	**41.79%**	**21.67%**			
76	1	Surface	PCB, Total	2.60E-01	6.45E-07	8.85E-07	7.31E-08		1.60E-06	4.10%
76	1	Surface	Total PAH	1.76E+00	1.59E-05	2.03E-05	3.36E-08		3.62E-05	92.73%
76	1	Surface	Uranium-238	1.45E+00	6.76E-07		2.02E-09	5.59E-07	1.24E-06	3.16%
76	1	Surface	**Totals**		**1.73E-05**	**2.12E-05**	**1.09E-07**	**5.59E-07**	**3.91E-05**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
76	1	Surface	**Percent**		**44.14%**	**54.15%**	**0.28%**	**1.43%**		
78	1	Surface	Cadmium	2.36E+00	1.11E-06	4.36E-07	1.24E-09		1.55E-06	0.17%
78	1	Surface	Chromium	3.75E+01			9.20E-07		9.20E-07	0.10%
78	1	Surface	Cobalt-60	5.91E-03	5.29E-10		3.16E-14	2.48E-07	2.48E-07	0.03%
78	1	Surface	Naphthalene	1.60E+01			5.29E-06		5.29E-06	0.59%
78	1	Surface	Nickel	2.15E+01			1.63E-09		1.63E-09	0.00%
78	1	Surface	PCB, Total	1.20E+01	2.98E-05	4.08E-05	3.38E-06		7.40E-05	8.28%
78	1	Surface	Total PAH	3.91E+01	3.54E-04	4.51E-04	7.48E-07		8.06E-04	90.25%
78	1	Surface	Uranium-235	2.64E-01	9.55E-08		3.98E-10	4.84E-07	5.80E-07	0.06%
78	1	Surface	Uranium-238	5.29E+00	2.47E-06		7.38E-09	2.04E-06	4.51E-06	0.50%
78	1	Surface	**Totals**		**3.88E-04**	**4.92E-04**	**1.03E-05**	**2.77E-06**	**8.94E-04**	
78	1	Surface	**Percent**		**43.42%**	**55.12%**	**1.16%**	**0.31%**		
80	1	Surface	Americium-241	6.40E+00	3.08E-06		2.68E-08	5.97E-07	3.71E-06	0.19%
80	1	Surface	Beryllium	7.80E-01	4.16E-06	4.07E-05	5.47E-10		4.49E-05	2.32%
80	1	Surface	Chromium	1.65E+02			4.05E-06		4.05E-06	0.21%
80	1	Surface	Neptunium-237	5.05E-01	1.82E-07		1.33E-09	1.36E-06	1.54E-06	0.08%
80	1	Surface	PCB, Total	1.46E+01	3.63E-05	4.98E-05	4.11E-06		9.02E-05	4.66%
80	1	Surface	Thorium-230	4.40E+00	1.97E-06		1.87E-08	1.22E-08	2.00E-06	0.10%
80	1	Surface	Total PAH	1.42E-01	1.28E-06	1.63E-06	2.71E-09		2.92E-06	0.15%
80	1	Surface	Uranium-234	2.29E+02	8.03E-05		3.89E-07	1.95E-07	8.09E-05	4.18%
80	1	Surface	Uranium-235	3.00E+01	1.09E-05		4.52E-08	5.50E-05	6.59E-05	3.41%
80	1	Surface	Uranium-238	1.92E+03	8.96E-04		2.68E-06	7.40E-04	1.64E-03	84.69%
80	1	Surface	**Totals**		**1.03E-03**	**9.21E-05**	**1.13E-05**	**7.97E-04**	**1.93E-03**	
80	1	Surface	**Percent**		**53.44%**	**4.76%**	**0.59%**	**41.21%**		
81	1	Surface	Arsenic	1.03E+01	1.91E-05	5.61E-06	1.29E-08		2.47E-05	2.31%
81	1	Surface	Beryllium	7.57E-01	4.04E-06	3.95E-05	5.30E-10		4.36E-05	4.08%
81	1	Surface	Chromium	8.62E+01			2.11E-06		2.11E-06	0.20%
81	1	Surface	Nickel	7.29E+01			5.53E-09		5.53E-09	0.00%
81	1	Surface	PCB, Total	1.60E+02	3.97E-04	5.44E-04	4.49E-05		9.85E-04	92.17%
81	1	Surface	Total PAH	5.53E-01	5.01E-06	6.38E-06	1.06E-08		1.14E-05	1.07%
81	1	Surface	Uranium-238	2.29E+00	1.07E-06		3.19E-09	8.80E-07	1.95E-06	0.18%
81	1	Surface	**Totals**		**4.26E-04**	**5.95E-04**	**4.71E-05**	**8.80E-07**	**1.07E-03**	
81	1	Surface	**Percent**		**39.83%**	**55.68%**	**4.40%**	**0.08%**		
99	1	Surface	Chromium	5.51E+01			1.35E-06		1.35E-06	50.76%
99	1	Surface	Cobalt-60	1.19E-02	1.06E-09		6.36E-14	4.99E-07	5.00E-07	18.77%
99	1	Surface	Nickel	7.02E+01			5.33E-09		5.33E-09	0.20%
99	1	Surface	Uranium-238	9.45E-01	4.41E-07		1.32E-09	3.64E-07	8.06E-07	30.27%
99	1	Surface	**Totals**		**4.42E-07**		**1.36E-06**	**8.63E-07**	**2.66E-06**	
99	1	Surface	**Percent**		**16.59%**		**51.01%**	**32.40%**		
138	1	Surface	Arsenic	1.06E+01	1.98E-05	5.81E-06	1.34E-08		2.56E-05	71.95%
138	1	Surface	Cadmium	5.42E+00	2.56E-06	1.00E-06	2.85E-09		3.56E-06	10.01%
138	1	Surface	Chromium	5.39E+01			1.32E-06		1.32E-06	3.71%
138	1	Surface	Nickel	7.04E+01			5.34E-09		5.34E-09	0.02%
138	1	Surface	PCB, Total	5.00E-01	1.24E-06	1.70E-06	1.41E-07		3.08E-06	8.67%
138	1	Surface	Total PAH	9.74E-02	8.83E-07	1.12E-06	1.86E-09		2.01E-06	5.65%
138	1	Surface	**Totals**		**2.45E-05**	**9.64E-06**	**1.48E-06**		**3.56E-05**	
138	1	Surface	**Percent**		**68.74%**	**27.08%**	**4.17%**			
138	2	Surface	Nickel	7.99E+01			6.06E-09		6.06E-09	0.44%
138	2	Surface	PCB, Total	9.20E-02	2.28E-07	3.13E-07	2.59E-08		5.67E-07	41.56%
138	2	Surface	Total PAH	3.84E-02	3.48E-07	4.43E-07	7.34E-10		7.92E-07	57.99%
138	2	Surface	**Totals**		**5.76E-07**	**7.56E-07**	**3.27E-08**		**1.37E-06**	
138	2	Surface	**Percent**		**42.22%**	**55.38%**	**2.39%**			
153	1	Surface	PCB, Total	5.09E-01	1.26E-06	1.73E-06	1.43E-07		3.14E-06	63.66%
153	1	Surface	Total PAH	8.69E-02	7.88E-07	1.00E-06	1.66E-09		1.79E-06	36.34%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
153	1	Surface	**Totals**		**2.05E-06**	**2.73E-06**	**1.45E-07**		**4.93E-06**	
153	1	Surface	**Percent**		**41.60%**	**55.46%**	**2.94%**			
154	1	Surface	Arsenic	1.52E+01	2.82E-05	8.30E-06	1.91E-08		3.66E-05	44.91%
154	1	Surface	Chromium	4.28E+01			1.05E-06		1.05E-06	1.29%
154	1	Surface	Nickel	9.89E+01			7.51E-09		7.51E-09	0.01%
154	1	Surface	PCB, Total	3.20E+00	7.94E-06	1.09E-05	9.00E-07		1.97E-05	24.24%
154	1	Surface	Total PAH	1.04E+00	9.43E-06	1.20E-05	1.99E-08		2.14E-05	26.35%
154	1	Surface	Uranium-238	3.06E+00	1.43E-06		4.27E-09	1.18E-06	2.61E-06	3.21%
154	1	Surface	**Totals**		**4.70E-05**	**3.12E-05**	**2.00E-06**	**1.18E-06**	**8.14E-05**	
154	1	Surface	**Percent**		**57.79%**	**38.31%**	**2.46%**	**1.45%**		
154	2	Surface	PCB, Total	4.00E-01	9.93E-07	1.36E-06	1.13E-07		2.47E-06	100.00%
154	2	Surface	**Totals**		**9.93E-07**	**1.36E-06**	**1.13E-07**		**2.47E-06**	
154	2	Surface	**Percent**		**40.26%**	**55.18%**	**4.56%**			
155	1	Surface	Chromium	3.47E+01			8.51E-07		8.51E-07	1.47%
155	1	Surface	Neptunium-237	1.03E-01	3.70E-08		2.72E-10	2.77E-07	3.14E-07	0.54%
155	1	Surface	Nickel	7.65E+01			5.81E-09		5.81E-09	0.01%
155	1	Surface	PCB, Total	9.20E+00	2.28E-05	3.13E-05	2.59E-06		5.67E-05	97.98%
155	1	Surface	**Totals**		**2.29E-05**	**3.13E-05**	**3.44E-06**	**2.77E-07**	**5.79E-05**	
155	1	Surface	**Percent**		**39.51%**	**54.07%**	**5.95%**	**0.48%**		
156	1	Surface	Chromium	4.90E+01			1.20E-06		1.20E-06	18.14%
156	1	Surface	Nickel	6.16E+01			4.68E-09		4.68E-09	0.07%
156	1	Surface	PCB, Total	3.00E-01	7.45E-07	1.02E-06	8.44E-08		1.85E-06	27.91%
156	1	Surface	Total PAH	8.26E-02	7.48E-07	9.53E-07	1.58E-09		1.70E-06	25.69%
156	1	Surface	Uranium-238	2.19E+00	1.02E-06		3.05E-09	8.44E-07	1.87E-06	28.18%
156	1	Surface	**Totals**		**2.51E-06**	**1.97E-06**	**1.30E-06**	**8.44E-07**	**6.63E-06**	
156	1	Surface	**Percent**		**37.94%**	**29.78%**	**19.56%**	**12.73%**		
158	1	Surface	Arsenic	1.01E+01	1.88E-05	5.53E-06	1.27E-08		2.44E-05	65.70%
158	1	Surface	Chromium	6.07E+01			1.49E-06		1.49E-06	4.01%
158	1	Surface	Cobalt	1.62E+01			4.26E-08		4.26E-08	0.11%
158	1	Surface	Nickel	7.28E+01			5.53E-09		5.53E-09	0.01%
158	1	Surface	Total PAH	3.69E-01	3.34E-06	4.26E-06	7.06E-09		7.61E-06	20.49%
158	1	Surface	Uranium-235	1.63E-01	5.90E-08		2.46E-10	2.99E-07	3.58E-07	0.97%
158	1	Surface	Uranium-238	3.79E+00	1.77E-06		5.29E-09	1.46E-06	3.23E-06	8.71%
158	1	Surface	**Totals**		**2.40E-05**	**9.79E-06**	**1.56E-06**	**1.76E-06**	**3.71E-05**	
158	1	Surface	**Percent**		**64.68%**	**26.37%**	**4.21%**	**4.74%**		
160	1	Surface	Total PAH	5.29E-02	4.79E-07	6.10E-07	1.01E-09		1.09E-06	100.00%
160	1	Surface	**Totals**		**4.79E-07**	**6.10E-07**	**1.01E-09**		**1.09E-06**	
160	1	Surface	**Percent**		**43.96%**	**55.95%**	**0.09%**			
163	1	Surface	Chromium	4.94E+01			1.21E-06		1.21E-06	26.52%
163	1	Surface	Total PAH	1.63E-01	1.48E-06	1.88E-06	3.12E-09		3.36E-06	73.48%
163	1	Surface	**Totals**		**1.48E-06**	**1.88E-06**	**1.22E-06**		**4.57E-06**	
163	1	Surface	**Percent**		**32.30%**	**41.12%**	**26.58%**			
165	1	Surface	Arsenic	6.35E+01	1.18E-04	3.47E-05	8.00E-08		1.53E-04	38.39%
165	1	Surface	Beryllium	6.82E-01	3.64E-06	3.56E-05	4.78E-10		3.93E-05	9.85%
165	1	Surface	Cesium-137	3.47E+00	3.34E-07		6.16E-12	2.98E-05	3.01E-05	7.56%
165	1	Surface	Chromium	3.74E+01			9.17E-07		9.17E-07	0.23%
165	1	Surface	Naphthalene	1.61E+00			5.33E-07		5.33E-07	0.13%
165	1	Surface	Neptunium-237	4.26E-01	1.53E-07		1.12E-09	1.15E-06	1.30E-06	0.33%
165	1	Surface	Nickel	3.47E+01			2.63E-09		2.63E-09	0.00%
165	1	Surface	PCB, Total	8.27E+00	2.05E-05	2.81E-05	2.33E-06		5.10E-05	12.79%
165	1	Surface	Plutonium-239/240	2.81E+00	1.72E-06		1.39E-08	1.90E-09	1.73E-06	0.44%
165	1	Surface	Thorium-230	6.02E+00	2.70E-06		2.56E-08	1.67E-08	2.74E-06	0.69%
165	1	Surface	Total PAH	1.87E+00	1.69E-05	2.15E-05	3.57E-08		3.85E-05	9.66%
165	1	Surface	Uranium-234	5.76E+01	2.02E-05		9.79E-08	4.90E-08	2.03E-05	5.10%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
165	1	Surface	Uranium-235	2.05E+00	7.40E-07		3.08E-09	3.75E-06	4.50E-06	1.13%
165	1	Surface	Uranium-238	6.41E+01	2.99E-05		8.94E-08	2.47E-05	5.47E-05	13.71%
165	1	Surface	**Totals**		**2.15E-04**	**1.20E-04**	**4.13E-06**	**5.94E-05**	**3.99E-04**	
165	1	Surface	**Percent**		**53.94%**	**30.11%**	**1.03%**	**14.91%**		
169	1	Surface	Arsenic	2.03E+01	3.78E-05	1.11E-05	2.56E-08		4.89E-05	18.34%
169	1	Surface	Beryllium	8.00E-01	4.27E-06	4.18E-05	5.61E-10		4.61E-05	17.27%
169	1	Surface	Chromium	2.15E+02			5.27E-06		5.27E-06	1.98%
169	1	Surface	Nickel	5.49E+02			4.16E-08		4.16E-08	0.02%
169	1	Surface	PCB, Total	1.00E+01	2.48E-05	3.40E-05	2.81E-06		6.17E-05	23.12%
169	1	Surface	Total PAH	4.59E+00	4.16E-05	5.29E-05	8.77E-08		9.45E-05	35.44%
169	1	Surface	Uranium-234	6.55E+00	2.30E-06		1.11E-08	5.58E-09	2.31E-06	0.87%
169	1	Surface	Uranium-235	4.60E-01	1.66E-07		6.93E-10	8.44E-07	1.01E-06	0.38%
169	1	Surface	Uranium-238	8.12E+00	3.79E-06		1.13E-08	3.13E-06	6.92E-06	2.60%
169	1	Surface	**Totals**		**1.15E-04**	**1.40E-04**	**8.26E-06**	**3.98E-06**	**2.67E-04**	
169	1	Surface	**Percent**		**43.00%**	**52.42%**	**3.10%**	**1.49%**		
170	1	Surface	Neptunium-237	1.15E-01	4.14E-08		3.04E-10	3.09E-07	3.51E-07	21.20%
170	1	Surface	Uranium-238	1.53E+00	7.13E-07		2.13E-09	5.89E-07	1.30E-06	78.80%
170	1	Surface	**Totals**		**7.55E-07**		**2.44E-09**	**8.99E-07**	**1.66E-06**	
170	1	Surface	**Percent**		**45.58%**		**0.15%**	**54.28%**		
176	1	Surface	Arsenic	4.86E+01	9.04E-05	2.66E-05	6.12E-08		1.17E-04	99.11%
176	1	Surface	Chromium	4.27E+01			1.05E-06		1.05E-06	0.89%
176	1	Surface	Nickel	1.07E+02			8.13E-09		8.13E-09	0.01%
176	1	Surface	**Totals**		**9.04E-05**	**2.66E-05**	**1.12E-06**		**1.18E-04**	
176	1	Surface	**Percent**		**76.56%**	**22.49%**	**0.95%**			
180	1	Surface	Arsenic	7.48E+01	1.39E-04	4.09E-05	9.42E-08		1.80E-04	99.25%
180	1	Surface	Chromium	5.54E+01			1.36E-06		1.36E-06	0.75%
180	1	Surface	Nickel	8.77E+01			6.66E-09		6.66E-09	0.00%
180	1	Surface	**Totals**		**1.39E-04**	**4.09E-05**	**1.46E-06**		**1.82E-04**	
180	1	Surface	**Percent**		**76.67%**	**22.52%**	**0.80%**			
180	2	Surface	Arsenic	1.27E+01	2.36E-05	6.92E-06	1.59E-08		3.05E-05	91.06%
180	2	Surface	Chromium	4.46E+01			1.09E-06		1.09E-06	3.27%
180	2	Surface	Nickel	8.42E+01			6.39E-09		6.39E-09	0.02%
180	2	Surface	Total PAH	9.19E-02	8.32E-07	1.06E-06	1.76E-09		1.89E-06	5.66%
180	2	Surface	**Totals**		**2.44E-05**	**7.98E-06**	**1.12E-06**		**3.35E-05**	
180	2	Surface	**Percent**		**72.83%**	**23.83%**	**3.34%**			
180	3	Surface	Arsenic	1.34E+01	2.49E-05	7.30E-06	1.68E-08		3.22E-05	96.53%
180	3	Surface	Chromium	4.69E+01			1.15E-06		1.15E-06	3.45%
180	3	Surface	Nickel	6.77E+01			5.14E-09		5.14E-09	0.02%
180	3	Surface	**Totals**		**2.49E-05**	**7.30E-06**	**1.17E-06**		**3.33E-05**	
180	3	Surface	**Percent**		**74.57%**	**21.91%**	**3.52%**			
180	4	Surface	Arsenic	1.15E+01	2.15E-05	6.31E-06	1.45E-08		2.78E-05	22.81%
180	4	Surface	Beryllium	1.60E+00	8.54E-06	8.36E-05	1.12E-09		9.21E-05	75.62%
180	4	Surface	Chromium	6.00E+01			1.47E-06		1.47E-06	1.21%
180	4	Surface	Nickel	6.46E+01			4.90E-09		4.90E-09	0.00%
180	4	Surface	Total PAH	2.15E-02	1.95E-07	2.48E-07	4.11E-10		4.43E-07	0.36%
180	4	Surface	**Totals**		**3.02E-05**	**9.01E-05**	**1.49E-06**		**1.22E-04**	
180	4	Surface	**Percent**		**24.79%**	**73.98%**	**1.23%**			
181	1	Surface	Chromium	2.29E+01			5.60E-07		5.60E-07	44.21%
181	1	Surface	Total PAH	3.43E-02	3.11E-07	3.96E-07	6.56E-10		7.07E-07	55.79%
181	1	Surface	**Totals**		**3.11E-07**	**3.96E-07**	**5.61E-07**		**1.27E-06**	
181	1	Surface	**Percent**		**24.52%**	**31.21%**	**44.27%**			
194	1	Surface	Chromium	3.87E+01			9.49E-07		9.49E-07	99.54%
194	1	Surface	Nickel	5.84E+01			4.43E-09		4.43E-09	0.46%
194	1	Surface	**Totals**				**9.54E-07**		**9.54E-07**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	1	Surface	**Percent**				**100.00%**			
194	2	Surface	Chromium	5.96E+01			1.46E-06		1.46E-06	54.69%
194	2	Surface	Uranium-238	1.42E+00	6.62E-07		1.98E-09	5.47E-07	1.21E-06	45.31%
194	2	Surface	**Totals**		**6.62E-07**		**1.46E-06**	**5.47E-07**	**2.67E-06**	
194	2	Surface	**Percent**		**24.77%**		**54.76%**	**20.47%**		
194	3	Surface	Arsenic	1.46E+01	2.73E-05	8.01E-06	1.84E-08		3.53E-05	92.49%
194	3	Surface	Chromium	3.90E+01			9.56E-07		9.56E-07	2.51%
194	3	Surface	Nickel	6.40E+01			4.86E-09		4.86E-09	0.01%
194	3	Surface	Total PAH	3.93E-02	3.56E-07	4.53E-07	7.51E-10		8.10E-07	2.12%
194	3	Surface	Uranium-238	1.28E+00	5.99E-07		1.79E-09	4.95E-07	1.09E-06	2.87%
194	3	Surface	**Totals**		**2.82E-05**	**8.46E-06**	**9.82E-07**	**4.95E-07**	**3.81E-05**	
194	3	Surface	**Percent**		**73.95%**	**22.18%**	**2.57%**	**1.30%**		
194	4	Surface	Chromium	4.84E+01			1.19E-06		1.19E-06	28.46%
194	4	Surface	Nickel	6.91E+01			5.24E-09		5.24E-09	0.13%
194	4	Surface	Total PAH	7.30E-02	6.61E-07	8.41E-07	1.39E-09		1.50E-06	36.05%
194	4	Surface	Uranium-238	1.73E+00	8.07E-07		2.41E-09	6.66E-07	1.48E-06	35.36%
194	4	Surface	**Totals**		**1.47E-06**	**8.41E-07**	**1.20E-06**	**6.66E-07**	**4.17E-06**	
194	4	Surface	**Percent**		**35.18%**	**20.17%**	**28.68%**	**15.97%**		
194	5	Surface	Chromium	4.58E+01			1.12E-06		1.12E-06	40.20%
194	5	Surface	Nickel	7.54E+01			5.73E-09		5.73E-09	0.20%
194	5	Surface	Total PAH	2.37E-02	2.15E-07	2.73E-07	4.53E-10		4.89E-07	17.48%
194	5	Surface	Uranium-238	1.38E+00	6.43E-07		1.93E-09	5.32E-07	1.18E-06	42.12%
194	5	Surface	**Totals**		**8.58E-07**	**2.73E-07**	**1.13E-06**	**5.32E-07**	**2.79E-06**	
194	5	Surface	**Percent**		**30.71%**	**9.78%**	**40.49%**	**19.02%**		
194	6	Surface	Chromium	3.70E+01			9.08E-07		9.08E-07	44.50%
194	6	Surface	Nickel	8.06E+01			6.12E-09		6.12E-09	0.30%
194	6	Surface	Uranium-238	1.32E+00	6.15E-07		1.84E-09	5.08E-07	1.13E-06	55.20%
194	6	Surface	**Totals**		**6.15E-07**		**9.16E-07**	**5.08E-07**	**2.04E-06**	
194	6	Surface	**Percent**		**30.17%**		**44.90%**	**24.93%**		
194	7	Surface	Chromium	5.32E+01			1.30E-06		1.30E-06	99.55%
194	7	Surface	Nickel	7.71E+01			5.86E-09		5.86E-09	0.45%
194	7	Surface	**Totals**				**1.31E-06**		**1.31E-06**	
194	7	Surface	**Percent**				**100.00%**			
194	8	Surface	Chromium	5.36E+01			1.31E-06		1.31E-06	10.51%
194	8	Surface	Total PAH	4.85E-01	4.39E-06	5.59E-06	9.27E-09		1.00E-05	80.00%
194	8	Surface	Uranium-238	1.39E+00	6.48E-07		1.94E-09	5.35E-07	1.19E-06	9.48%
194	8	Surface	**Totals**		**5.04E-06**	**5.59E-06**	**1.33E-06**	**5.35E-07**	**1.25E-05**	
194	8	Surface	**Percent**		**40.35%**	**44.76%**	**10.60%**	**4.28%**		
194	9	Surface	Arsenic	1.14E+01	2.13E-05	6.25E-06	1.44E-08		2.75E-05	95.60%
194	9	Surface	Chromium	5.17E+01			1.27E-06		1.27E-06	4.40%
194	9	Surface	**Totals**		**2.13E-05**	**6.25E-06**	**1.28E-06**		**2.88E-05**	
194	9	Surface	**Percent**		**73.86%**	**21.69%**	**4.45%**			
194	10	Surface	Arsenic	1.22E+01	2.26E-05	6.65E-06	1.53E-08		2.93E-05	70.08%
194	10	Surface	Cesium-137	5.81E-01	5.58E-08		1.03E-12	4.99E-06	5.04E-06	12.06%
194	10	Surface	Chromium	3.63E+01			8.90E-07		8.90E-07	2.13%
194	10	Surface	Nickel	7.60E+01			5.77E-09		5.77E-09	0.01%
194	10	Surface	Total PAH	2.57E-01	2.33E-06	2.97E-06	4.92E-09		5.30E-06	12.68%
194	10	Surface	Uranium-238	1.49E+00	6.95E-07		2.08E-09	5.74E-07	1.27E-06	3.04%
194	10	Surface	**Totals**		**2.57E-05**	**9.62E-06**	**9.18E-07**	**5.56E-06**	**4.18E-05**	
194	10	Surface	**Percent**		**61.51%**	**23.00%**	**2.20%**	**13.30%**		
194	11	Surface	Chromium	3.27E+01			8.01E-07		8.01E-07	27.02%
194	11	Surface	Nickel	1.01E+02			7.64E-09		7.64E-09	0.26%
194	11	Surface	PCB, Total	8.40E-02	2.09E-07	2.86E-07	2.36E-08		5.18E-07	17.46%
194	11	Surface	Total PAH	7.95E-02	7.21E-07	9.17E-07	1.52E-09		1.64E-06	55.26%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	11	Surface	**Totals**		**9.29E-07**	**1.20E-06**	**8.34E-07**		**2.97E-06**	
194	11	Surface	**Percent**		**31.32%**	**40.56%**	**28.12%**			
194	12	Surface	Chromium	6.34E+01			1.55E-06		1.55E-06	7.79%
194	12	Surface	Nickel	7.86E+01			5.97E-09		5.97E-09	0.03%
194	12	Surface	Total PAH	8.91E-01	8.08E-06	1.03E-05	1.70E-08		1.84E-05	92.18%
194	12	Surface	**Totals**		**8.08E-06**	**1.03E-05**	**1.58E-06**		**1.99E-05**	
194	12	Surface	**Percent**		**40.52%**	**51.57%**	**7.91%**			
194	13	Surface	Chromium	4.77E+01			1.17E-06		1.17E-06	38.24%
194	13	Surface	Nickel	6.03E+01			4.58E-09		4.58E-09	0.15%
194	13	Surface	Total PAH	9.13E-02	8.28E-07	1.05E-06	1.75E-09		1.88E-06	61.61%
194	13	Surface	**Totals**		**8.28E-07**	**1.05E-06**	**1.17E-06**		**3.06E-06**	
194	13	Surface	**Percent**		**27.08%**	**34.47%**	**38.44%**			
194	14	Surface	Chromium	5.21E+01			1.28E-06		1.28E-06	100.00%
194	14	Surface	**Totals**				**1.28E-06**		**1.28E-06**	
194	14	Surface	**Percent**				**100.00%**			
194	15	Surface	Chromium	5.33E+01			1.31E-06		1.31E-06	100.00%
194	15	Surface	**Totals**				**1.31E-06**		**1.31E-06**	
194	15	Surface	**Percent**				**100.00%**			
194	16	Surface	Arsenic	1.15E+01	2.14E-05	6.30E-06	1.45E-08		2.78E-05	35.07%
194	16	Surface	Beryllium	8.70E-01	4.64E-06	4.54E-05	6.10E-10		5.01E-05	63.27%
194	16	Surface	Chromium	5.32E+01			1.31E-06		1.31E-06	1.65%
194	16	Surface	Nickel	7.20E+01			5.47E-09		5.47E-09	0.01%
194	16	Surface	**Totals**		**2.61E-05**	**5.17E-05**	**1.33E-06**		**7.92E-05**	
194	16	Surface	**Percent**		**32.96%**	**65.37%**	**1.68%**			
194	17	Surface	Arsenic	1.16E+01	2.15E-05	6.32E-06	1.45E-08		2.78E-05	84.43%
194	17	Surface	Cadmium	1.10E+00	5.19E-07	2.03E-07	5.78E-10		7.23E-07	2.19%
194	17	Surface	Chromium	4.65E+01			1.14E-06		1.14E-06	3.46%
194	17	Surface	Total PAH	1.59E-01	1.44E-06	1.83E-06	3.03E-09		3.27E-06	9.92%
194	17	Surface	**Totals**		**2.35E-05**	**8.35E-06**	**1.16E-06**		**3.30E-05**	
194	17	Surface	**Percent**		**71.16%**	**25.33%**	**3.51%**			
194	18	Surface	Arsenic	1.06E+01	1.97E-05	5.78E-06	1.33E-08		2.55E-05	36.51%
194	18	Surface	Beryllium	7.40E-01	3.95E-06	3.87E-05	5.19E-10		4.26E-05	61.07%
194	18	Surface	Chromium	6.85E+01			1.68E-06		1.68E-06	2.41%
194	18	Surface	Nickel	5.78E+01			4.39E-09		4.39E-09	0.01%
194	18	Surface	**Totals**		**2.36E-05**	**4.44E-05**	**1.70E-06**		**6.98E-05**	
194	18	Surface	**Percent**		**33.87%**	**63.70%**	**2.43%**			
194	19	Surface	Arsenic	1.07E+01	1.99E-05	5.85E-06	1.35E-08		2.58E-05	95.58%
194	19	Surface	Chromium	4.84E+01			1.19E-06		1.19E-06	4.40%
194	19	Surface	Nickel	5.84E+01			4.43E-09		4.43E-09	0.02%
194	19	Surface	**Totals**		**1.99E-05**	**5.85E-06**	**1.20E-06**		**2.70E-05**	
194	19	Surface	**Percent**		**73.84%**	**21.69%**	**4.47%**			
194	20	Surface	Arsenic	1.18E+01	2.20E-05	6.48E-06	1.49E-08		2.85E-05	30.40%
194	20	Surface	Beryllium	1.10E+00	5.87E-06	5.75E-05	7.71E-10		6.33E-05	67.48%
194	20	Surface	Chromium	5.24E+01			1.28E-06		1.28E-06	1.37%
194	20	Surface	Cobalt	2.11E+01			5.54E-08		5.54E-08	0.06%
194	20	Surface	Nickel	6.57E+01			4.99E-09		4.99E-09	0.01%
194	20	Surface	Total PAH	3.10E-02	2.81E-07	3.58E-07	5.93E-10		6.39E-07	0.68%
194	20	Surface	**Totals**		**2.82E-05**	**6.43E-05**	**1.36E-06**		**9.39E-05**	
194	20	Surface	**Percent**		**30.04%**	**68.51%**	**1.45%**			
194	21	Surface	Chromium	5.51E+01			1.35E-06		1.35E-06	99.61%
194	21	Surface	Nickel	7.01E+01			5.32E-09		5.32E-09	0.39%
194	21	Surface	**Totals**				**1.36E-06**		**1.36E-06**	
194	21	Surface	**Percent**				**100.00%**			
194	22	Surface	Chromium	4.90E+01			1.20E-06		1.20E-06	1.75%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	22	Surface	PCB, Total	1.09E+01	2.71E-05	3.72E-05	3.07E-06		6.73E-05	98.25%
194	22	Surface	**Totals**		**2.71E-05**	**3.72E-05**	**4.27E-06**		**6.85E-05**	
194	22	Surface	**Percent**		**39.55%**	**54.22%**	**6.23%**			
194	23	Surface	Arsenic	1.16E+01	2.15E-05	6.32E-06	1.45E-08		2.78E-05	94.49%
194	23	Surface	Chromium	6.60E+01			1.62E-06		1.62E-06	5.49%
194	23	Surface	Nickel	8.77E+01			6.66E-09		6.66E-09	0.02%
194	23	Surface	**Totals**		**2.15E-05**	**6.32E-06**	**1.64E-06**		**2.95E-05**	
194	23	Surface	**Percent**		**72.99%**	**21.44%**	**5.56%**			
194	24	Surface	Chromium	5.02E+01			1.23E-06		1.23E-06	72.15%
194	24	Surface	Nickel	7.08E+01			5.37E-09		5.37E-09	0.31%
194	24	Surface	Total PAH	2.28E-02	2.07E-07	2.63E-07	4.36E-10		4.70E-07	27.54%
194	24	Surface	**Totals**		**2.07E-07**	**2.63E-07**	**1.24E-06**		**1.71E-06**	
194	24	Surface	**Percent**		**12.10%**	**15.41%**	**72.49%**			
194	25	Surface	Chromium	6.13E+01			1.50E-06		1.50E-06	77.77%
194	25	Surface	Nickel	6.33E+01			4.81E-09		4.81E-09	0.25%
194	25	Surface	Total PAH	2.06E-02	1.87E-07	2.38E-07	3.94E-10		4.25E-07	21.98%
194	25	Surface	**Totals**		**1.87E-07**	**2.38E-07**	**1.51E-06**		**1.93E-06**	
194	25	Surface	**Percent**		**9.66%**	**12.30%**	**78.04%**			
194	26	Surface	Beryllium	7.00E-01	3.74E-06	3.66E-05	4.90E-10		4.03E-05	97.52%
194	26	Surface	Chromium	4.18E+01			1.03E-06		1.03E-06	2.48%
194	26	Surface	**Totals**		**3.74E-06**	**3.66E-05**	**1.03E-06**		**4.13E-05**	
194	26	Surface	**Percent**		**9.04%**	**88.48%**	**2.48%**			
194	27	Surface	Chromium	5.22E+01			1.28E-06		1.28E-06	99.61%
194	27	Surface	Nickel	6.55E+01			4.97E-09		4.97E-09	0.39%
194	27	Surface	**Totals**				**1.28E-06**		**1.28E-06**	
194	27	Surface	**Percent**				**100.00%**			
194	28	Surface	Arsenic	1.20E+01	2.24E-05	6.58E-06	1.52E-08		2.90E-05	40.63%
194	28	Surface	Beryllium	7.10E-01	3.79E-06	3.71E-05	4.98E-10		4.09E-05	57.28%
194	28	Surface	Chromium	6.07E+01			1.49E-06		1.49E-06	2.09%
194	28	Surface	Nickel	6.95E+01			5.27E-09		5.27E-09	0.01%
194	28	Surface	**Totals**		**2.62E-05**	**4.37E-05**	**1.51E-06**		**7.14E-05**	
194	28	Surface	**Percent**		**36.70%**	**61.19%**	**2.12%**			
194	29	Surface	Chromium	5.06E+01			1.24E-06		1.24E-06	99.60%
194	29	Surface	Nickel	6.51E+01			4.94E-09		4.94E-09	0.40%
194	29	Surface	**Totals**				**1.24E-06**		**1.24E-06**	
194	29	Surface	**Percent**				**100.00%**			
194	30	Surface	Chromium	5.66E+01			1.39E-06		1.39E-06	99.62%
194	30	Surface	Nickel	6.99E+01			5.30E-09		5.30E-09	0.38%
194	30	Surface	**Totals**				**1.39E-06**		**1.39E-06**	
194	30	Surface	**Percent**				**100.00%**			
194	31	Surface	Cesium-137	5.70E-01	5.48E-08		1.01E-12	4.89E-06	4.95E-06	77.13%
194	31	Surface	Uranium-238	1.72E+00	8.02E-07		2.40E-09	6.63E-07	1.47E-06	22.87%
194	31	Surface	**Totals**		**8.57E-07**		**2.40E-09**	**5.55E-06**	**6.41E-06**	
194	31	Surface	**Percent**		**13.36%**		**0.04%**	**86.61%**		
195	1	Surface	Chromium	6.33E+01			1.55E-06		1.55E-06	99.66%
195	1	Surface	Nickel	7.02E+01			5.33E-09		5.33E-09	0.34%
195	1	Surface	**Totals**				**1.56E-06**		**1.56E-06**	
195	1	Surface	**Percent**				**100.00%**			
195	2	Surface	Chromium	4.52E+01			1.11E-06		1.11E-06	66.74%
195	2	Surface	Total PAH	2.68E-02	2.43E-07	3.09E-07	5.12E-10		5.52E-07	33.26%
195	2	Surface	**Totals**		**2.43E-07**	**3.09E-07**	**1.11E-06**		**1.66E-06**	
195	2	Surface	**Percent**		**14.62%**	**18.61%**	**66.77%**			
195	3	Surface	Chromium	5.03E+01			1.23E-06		1.23E-06	59.46%
195	3	Surface	Nickel	5.22E+01			3.96E-09		3.96E-09	0.19%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
195	3	Surface	Total PAH	4.06E-02	3.68E-07	4.68E-07	7.76E-10		8.37E-07	40.34%
195	3	Surface	**Totals**		**3.68E-07**	**4.68E-07**	**1.24E-06**		**2.07E-06**	
195	3	Surface	**Percent**		**17.73%**	**22.57%**	**59.69%**			
195	4	Surface	Chromium	5.29E+01			1.30E-06		1.30E-06	99.64%
195	4	Surface	Nickel	6.23E+01			4.73E-09		4.73E-09	0.36%
195	4	Surface	**Totals**				**1.30E-06**		**1.30E-06**	
195	4	Surface	**Percent**				**100.00%**			
195	5	Surface	Chromium	5.74E+01			1.41E-06		1.41E-06	73.76%
195	5	Surface	Nickel	8.11E+01			6.16E-09		6.16E-09	0.32%
195	5	Surface	Total PAH	2.40E-02	2.17E-07	2.77E-07	4.59E-10		4.95E-07	25.92%
195	5	Surface	**Totals**		**2.17E-07**	**2.77E-07**	**1.41E-06**		**1.91E-06**	
195	5	Surface	**Percent**		**11.39%**	**14.50%**	**74.11%**			
195	6	Surface	Chromium	4.45E+01			1.09E-06		1.09E-06	17.60%
195	6	Surface	Nickel	8.71E+01			6.61E-09		6.61E-09	0.11%
195	6	Surface	Total PAH	2.48E-01	2.24E-06	2.86E-06	4.74E-09		5.11E-06	82.29%
195	6	Surface	**Totals**		**2.24E-06**	**2.86E-06**	**1.10E-06**		**6.21E-06**	
195	6	Surface	**Percent**		**36.17%**	**46.04%**	**17.79%**			
195	7	Surface	Chromium	4.93E+01			1.21E-06		1.21E-06	100.00%
195	7	Surface	**Totals**				**1.21E-06**		**1.21E-06**	
195	7	Surface	**Percent**				**100.00%**			
195	8	Surface	Arsenic	1.16E+01	2.15E-05	6.32E-06	1.46E-08		2.79E-05	36.36%
195	8	Surface	Beryllium	7.40E-01	3.95E-06	3.87E-05	5.19E-10		4.26E-05	55.60%
195	8	Surface	Chromium	6.79E+01			1.67E-06		1.67E-06	2.17%
195	8	Surface	Cobalt	1.82E+01			4.78E-08		4.78E-08	0.06%
195	8	Surface	Nickel	7.01E+01			5.32E-09		5.32E-09	0.01%
195	8	Surface	Total PAH	2.16E-01	1.95E-06	2.49E-06	4.12E-09		4.44E-06	5.80%
195	8	Surface	**Totals**		**2.74E-05**	**4.75E-05**	**1.74E-06**		**7.66E-05**	
195	8	Surface	**Percent**		**35.79%**	**61.94%**	**2.27%**			
195	9	Surface	Chromium	6.08E+01			1.49E-06		1.49E-06	99.60%
195	9	Surface	Nickel	7.93E+01			6.02E-09		6.02E-09	0.40%
195	9	Surface	**Totals**				**1.50E-06**		**1.50E-06**	
195	9	Surface	**Percent**				**100.00%**			
195	10	Surface	Chromium	4.51E+01			1.11E-06		1.11E-06	99.49%
195	10	Surface	Nickel	7.40E+01			5.62E-09		5.62E-09	0.51%
195	10	Surface	**Totals**				**1.11E-06**		**1.11E-06**	
195	10	Surface	**Percent**				**100.00%**			
195	11	Surface	Arsenic	1.35E+01	2.51E-05	7.36E-06	1.70E-08		3.24E-05	96.10%
195	11	Surface	Chromium	5.05E+01			1.24E-06		1.24E-06	3.67%
195	11	Surface	Cobalt	2.77E+01			7.28E-08		7.28E-08	0.22%
195	11	Surface	Nickel	6.77E+01			5.14E-09		5.14E-09	0.02%
195	11	Surface	**Totals**		**2.51E-05**	**7.36E-06**	**1.33E-06**		**3.38E-05**	
195	11	Surface	**Percent**		**74.24%**	**21.81%**	**3.95%**			
195	12	Surface	Beryllium	7.50E-01	4.00E-06	3.92E-05	5.26E-10		4.32E-05	96.15%
195	12	Surface	Chromium	7.04E+01			1.73E-06		1.73E-06	3.84%
195	12	Surface	Nickel	6.78E+01			5.14E-09		5.14E-09	0.01%
195	12	Surface	**Totals**		**4.00E-06**	**3.92E-05**	**1.73E-06**		**4.49E-05**	
195	12	Surface	**Percent**		**8.91%**	**87.23%**	**3.86%**			
195	13	Surface	Chromium	6.55E+01			1.61E-06		1.61E-06	99.67%
195	13	Surface	Nickel	6.91E+01			5.24E-09		5.24E-09	0.33%
195	13	Surface	**Totals**				**1.61E-06**		**1.61E-06**	
195	13	Surface	**Percent**				**100.00%**			
195	14	Surface	Chromium	5.94E+01			1.46E-06		1.46E-06	99.63%
195	14	Surface	Nickel	7.04E+01			5.34E-09		5.34E-09	0.37%
195	14	Surface	**Totals**				**1.46E-06**		**1.46E-06**	

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EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
195	14	Surface	**Percent**				**100.00%**			
195	15	Surface	Chromium	4.82E+01			1.18E-06		1.18E-06	100.00%
195	15	Surface	**Totals**				**1.18E-06**		**1.18E-06**	
195	15	Surface	**Percent**				**100.00%**			
195	16	Surface	Chromium	4.45E+01			1.09E-06		1.09E-06	99.44%
195	16	Surface	Nickel	8.16E+01			6.19E-09		6.19E-09	0.56%
195	16	Surface	**Totals**				**1.10E-06**		**1.10E-06**	
195	16	Surface	**Percent**				**100.00%**			
195	17	Surface	Chromium	8.22E+01			2.02E-06		2.02E-06	13.00%
195	17	Surface	Nickel	5.93E+01			4.50E-09		4.50E-09	0.03%
195	17	Surface	PCB, Total	7.40E-01	1.84E-06	2.52E-06	2.08E-07		4.56E-06	29.44%
195	17	Surface	Total PAH	3.16E-01	2.86E-06	3.64E-06	6.04E-09		6.51E-06	42.01%
195	17	Surface	Uranium-235	1.32E-01	4.78E-08		1.99E-10	2.42E-07	2.90E-07	1.87%
195	17	Surface	Uranium-238	2.48E+00	1.16E-06		3.46E-09	9.55E-07	2.11E-06	13.64%
195	17	Surface	**Totals**		**5.90E-06**	**6.16E-06**	**2.24E-06**	**1.20E-06**	**1.55E-05**	
195	17	Surface	**Percent**		**38.09%**	**39.75%**	**14.44%**	**7.73%**		
196	1	Surface	Chromium	1.96E+01			4.81E-07		4.81E-07	17.26%
196	1	Surface	Neptunium-237	3.11E-01	1.12E-07		8.21E-10	8.36E-07	9.49E-07	34.08%
196	1	Surface	Nickel	5.56E+02			4.22E-08		4.22E-08	1.52%
196	1	Surface	Uranium-238	1.54E+00	7.18E-07		2.15E-09	5.93E-07	1.31E-06	47.15%
196	1	Surface	**Totals**		**8.30E-07**		**5.26E-07**	**1.43E-06**	**2.79E-06**	
196	1	Surface	**Percent**		**29.79%**		**18.88%**	**51.33%**		
196	2	Surface	Cadmium	2.53E+00	1.19E-06	4.67E-07	1.33E-09		1.66E-06	6.07%
196	2	Surface	Chromium	2.07E+01			5.08E-07		5.08E-07	1.85%
196	2	Surface	Nickel	7.36E+01			5.59E-09		5.59E-09	0.02%
196	2	Surface	PCB, Total	1.51E+00	3.75E-06	5.14E-06	4.25E-07		9.31E-06	34.00%
196	2	Surface	Total PAH	6.80E-01	6.16E-06	7.84E-06	1.30E-08		1.40E-05	51.18%
196	2	Surface	Uranium-238	2.21E+00	1.03E-06		3.08E-09	8.51E-07	1.88E-06	6.88%
196	2	Surface	**Totals**		**1.21E-05**	**1.34E-05**	**9.55E-07**	**8.51E-07**	**2.74E-05**	
196	2	Surface	**Percent**		**44.30%**	**49.10%**	**3.49%**	**3.11%**		
200	1	Surface	Cesium-137	5.74E-01	5.52E-08		1.02E-12	4.93E-06	4.98E-06	18.88%
200	1	Surface	Chromium	5.75E+01			1.41E-06		1.41E-06	5.35%
200	1	Surface	Nickel	1.28E+02			9.72E-09		9.72E-09	0.04%
200	1	Surface	PCB, Total	2.60E+00	6.45E-06	8.85E-06	7.31E-07		1.60E-05	60.77%
200	1	Surface	Total PAH	2.84E-02	2.57E-07	3.28E-07	5.43E-10		5.85E-07	2.22%
200	1	Surface	Uranium-235	1.43E-01	5.17E-08		2.15E-10	2.62E-07	3.14E-07	1.19%
200	1	Surface	Uranium-238	3.58E+00	1.67E-06		4.99E-09	1.38E-06	3.05E-06	11.56%
200	1	Surface	**Totals**		**8.49E-06**	**9.18E-06**	**2.16E-06**	**6.57E-06**	**2.64E-05**	
200	1	Surface	**Percent**		**32.16%**	**34.77%**	**8.18%**	**24.89%**		
204	1	Surface	Beryllium	1.36E+00	7.26E-06	7.10E-05	9.53E-10		7.83E-05	76.51%
204	1	Surface	Cadmium	2.73E+00	1.29E-06	5.04E-07	1.43E-09		1.79E-06	1.75%
204	1	Surface	Chromium	7.40E+01			1.81E-06		1.81E-06	1.77%
204	1	Surface	PCB, Total	2.53E+00	6.28E-06	8.61E-06	7.12E-07		1.56E-05	15.24%
204	1	Surface	Uranium-235	1.80E-01	6.51E-08		2.71E-10	3.30E-07	3.96E-07	0.39%
204	1	Surface	Uranium-238	5.20E+00	2.42E-06		7.25E-09	2.00E-06	4.43E-06	4.33%
204	1	Surface	**Totals**		**1.73E-05**	**8.02E-05**	**2.54E-06**	**2.33E-06**	**1.02E-04**	
204	1	Surface	**Percent**		**16.92%**	**78.32%**	**2.48%**	**2.28%**		
204	2	Surface	Chromium	1.80E+01			4.41E-07		4.41E-07	29.63%
204	2	Surface	PCB, Total	1.70E-01	4.22E-07	5.79E-07	4.78E-08		1.05E-06	70.37%
204	2	Surface	**Totals**		**4.22E-07**	**5.79E-07**	**4.89E-07**		**1.49E-06**	
204	2	Surface	**Percent**		**28.33%**	**38.83%**	**32.84%**			
204	3	Surface	Chromium	2.06E+01			5.05E-07		5.05E-07	19.16%
204	3	Surface	Uranium-238	2.50E+00	1.17E-06		3.49E-09	9.63E-07	2.13E-06	80.84%
204	3	Surface	**Totals**		**1.17E-06**		**5.09E-07**	**9.63E-07**	**2.64E-06**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
204	3	Surface	**Percent**		**44.19%**		**19.29%**	**36.52%**		
204	4	Surface	Chromium	2.89E+01			7.09E-07		7.09E-07	7.53%
204	4	Surface	Uranium-235	1.88E-01	6.80E-08		2.83E-10	3.45E-07	4.13E-07	4.39%
204	4	Surface	Uranium-238	9.72E+00	4.53E-06		1.36E-08	3.75E-06	8.29E-06	88.09%
204	4	Surface	**Totals**		**4.60E-06**		**7.23E-07**	**4.09E-06**	**9.41E-06**	
204	4	Surface	**Percent**		**48.88%**		**7.68%**	**43.45%**		
204	18	Surface	Cesium-137	6.30E-01	6.06E-08		1.12E-12	5.41E-06	5.47E-06	52.97%
204	18	Surface	Uranium-235	1.25E-01	4.52E-08		1.88E-10	2.29E-07	2.75E-07	2.66%
204	18	Surface	Uranium-238	5.37E+00	2.50E-06		7.49E-09	2.07E-06	4.58E-06	44.37%
204	18	Surface	**Totals**		**2.61E-06**		**7.68E-09**	**7.70E-06**	**1.03E-05**	
204	18	Surface	**Percent**		**25.28%**		**0.07%**	**74.65%**		
204	23	Surface	Americium-241	3.71E+00	1.79E-06		1.55E-08	3.46E-07	2.15E-06	0.05%
204	23	Surface	Beryllium	1.33E+00	7.10E-06	6.95E-05	9.32E-10		7.66E-05	1.66%
204	23	Surface	Cesium-137	1.17E+00	1.13E-07		2.08E-12	1.01E-05	1.02E-05	0.22%
204	23	Surface	Chromium	1.75E+02			4.29E-06		4.29E-06	0.09%
204	23	Surface	Cobalt-60	1.23E-02	1.10E-09		6.54E-14	5.13E-07	5.14E-07	0.01%
204	23	Surface	PCB, Total	7.90E+01	1.96E-04	2.69E-04	2.22E-05		4.87E-04	10.58%
204	23	Surface	Uranium-234	4.45E+02	1.56E-04		7.57E-07	3.79E-07	1.57E-04	3.42%
204	23	Surface	Uranium-235	5.70E+01	2.06E-05		8.59E-08	1.05E-04	1.25E-04	2.72%
204	23	Surface	Uranium-238	4.39E+03	2.04E-03		6.12E-06	1.69E-03	3.74E-03	81.25%
204	23	Surface	**Totals**		**2.43E-03**	**3.38E-04**	**3.35E-05**	**1.81E-03**	**4.60E-03**	
204	23	Surface	**Percent**		**52.71%**	**7.35%**	**0.73%**	**39.22%**		
211	1	Surface	Chromium	4.48E+01			1.10E-06		1.10E-06	9.67%
211	1	Surface	Neptunium-237	1.46E-01	5.25E-08		3.86E-10	3.93E-07	4.46E-07	3.93%
211	1	Surface	PCB, Total	3.60E-01	8.94E-07	1.23E-06	1.01E-07		2.22E-06	19.56%
211	1	Surface	Total PAH	1.04E-01	9.41E-07	1.20E-06	1.98E-09		2.14E-06	18.85%
211	1	Surface	Uranium-235	2.12E-01	7.67E-08		3.19E-10	3.89E-07	4.66E-07	4.11%
211	1	Surface	Uranium-238	5.84E+00	2.72E-06		8.15E-09	2.25E-06	4.98E-06	43.88%
211	1	Surface	**Totals**		**4.69E-06**	**2.42E-06**	**1.21E-06**	**3.03E-06**	**1.13E-05**	
211	1	Surface	**Percent**		**41.29%**	**21.34%**	**10.66%**	**26.71%**		
212	1	Surface	Arsenic	1.44E+01	2.68E-05	7.89E-06	1.82E-08		3.48E-05	15.32%
212	1	Surface	Beryllium	8.10E-01	4.32E-06	4.23E-05	5.68E-10		4.66E-05	20.55%
212	1	Surface	Cesium-137	6.01E-01	5.78E-08		1.07E-12	5.16E-06	5.22E-06	2.30%
212	1	Surface	Chromium	3.58E+01			8.78E-07		8.78E-07	0.39%
212	1	Surface	Cobalt-60	8.76E-03	7.84E-10		4.68E-14	3.67E-07	3.68E-07	0.16%
212	1	Surface	Neptunium-237	4.00E+00	1.44E-06		1.06E-08	1.08E-05	1.22E-05	5.38%
212	1	Surface	Nickel	8.69E+01			6.60E-09		6.60E-09	0.00%
212	1	Surface	PCB, Total	1.80E-01	4.47E-07	6.13E-07	5.06E-08		1.11E-06	0.49%
212	1	Surface	Plutonium-239/240	6.71E+00	4.11E-06		3.33E-08	4.53E-09	4.15E-06	1.83%
212	1	Surface	Thorium-230	2.60E+02	1.17E-04		1.11E-06	7.20E-07	1.18E-04	52.19%
212	1	Surface	Uranium-235	2.09E-01	7.56E-08		3.15E-10	3.83E-07	4.59E-07	0.20%
212	1	Surface	Uranium-238	3.17E+00	1.48E-06		4.42E-09	1.22E-06	2.70E-06	1.19%
212	1	Surface	**Totals**		**1.55E-04**	**5.08E-05**	**2.11E-06**	**1.86E-05**	**2.27E-04**	
212	1	Surface	**Percent**		**68.47%**	**22.39%**	**0.93%**	**8.20%**		
213	1	Surface	Chromium	4.78E+01			1.17E-06		1.17E-06	16.38%
213	1	Surface	Nickel	6.67E+01			5.07E-09		5.07E-09	0.07%
213	1	Surface	PCB, Total	7.30E-02	1.81E-07	2.48E-07	2.05E-08		4.50E-07	6.29%
213	1	Surface	Total PAH	1.72E-01	1.56E-06	1.98E-06	3.29E-09		3.54E-06	49.50%
213	1	Surface	Uranium-238	2.33E+00	1.09E-06		3.25E-09	8.98E-07	1.99E-06	27.76%
213	1	Surface	**Totals**		**2.82E-06**	**2.23E-06**	**1.20E-06**	**8.98E-07**	**7.16E-06**	
213	1	Surface	**Percent**		**39.46%**	**31.17%**	**16.83%**	**12.54%**		
213	2	Surface	Chromium	4.48E+01			1.10E-06		1.10E-06	99.38%
213	2	Surface	Nickel	9.10E+01			6.91E-09		6.91E-09	0.62%
213	2	Surface	**Totals**				**1.11E-06**		**1.11E-06**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
213	2	Surface	**Percent**				**100.00%**			
215	1	Surface	Chromium	5.73E+01			1.41E-06		1.41E-06	45.66%
215	1	Surface	Nickel	7.32E+01			5.55E-09		5.55E-09	0.18%
215	1	Surface	Total PAH	8.09E-02	7.33E-07	9.33E-07	1.55E-09		1.67E-06	54.16%
215	1	Surface	**Totals**		**7.33E-07**	**9.33E-07**	**1.41E-06**		**3.08E-06**	
215	1	Surface	**Percent**		**23.81%**	**30.30%**	**45.89%**			
216	1	Surface	Chromium	2.38E+01			5.84E-07		5.84E-07	12.17%
216	1	Surface	Total PAH	1.49E-01	1.35E-06	1.72E-06	2.86E-09		3.08E-06	64.18%
216	1	Surface	Uranium-238	1.33E+00	6.20E-07		1.86E-09	5.12E-07	1.13E-06	23.65%
216	1	Surface	**Totals**		**1.97E-06**	**1.72E-06**	**5.88E-07**	**5.12E-07**	**4.80E-06**	
216	1	Surface	**Percent**		**41.14%**	**35.91%**	**12.27%**	**10.68%**		
217	1	Surface	Chromium	8.58E+01			2.10E-06		2.10E-06	66.87%
217	1	Surface	Cobalt	1.96E+01			5.14E-08		5.14E-08	1.64%
217	1	Surface	Nickel	8.54E+01			6.48E-09		6.48E-09	0.21%
217	1	Surface	Uranium-238	1.15E+00	5.38E-07		1.61E-09	4.45E-07	9.84E-07	31.29%
217	1	Surface	**Totals**		**5.38E-07**		**2.16E-06**	**4.45E-07**	**3.15E-06**	
217	1	Surface	**Percent**		**17.11%**		**68.76%**	**14.13%**		
217	2	Surface	Arsenic	1.12E+01	2.08E-05	6.10E-06	1.41E-08		2.69E-05	67.49%
217	2	Surface	Chromium	1.02E+02			2.49E-06		2.49E-06	6.25%
217	2	Surface	Cobalt	1.74E+01			4.57E-08		4.57E-08	0.11%
217	2	Surface	Nickel	9.74E+01			7.39E-09		7.39E-09	0.02%
217	2	Surface	Total PAH	5.05E-01	4.58E-06	5.82E-06	9.66E-09		1.04E-05	26.12%
217	2	Surface	**Totals**		**2.54E-05**	**1.19E-05**	**2.57E-06**		**3.99E-05**	
217	2	Surface	**Percent**		**63.62%**	**29.93%**	**6.45%**			
219	1	Surface	Neptunium-237	3.31E-01	1.19E-07		8.74E-10	8.90E-07	1.01E-06	15.00%
219	1	Surface	Nickel	6.71E+01			5.10E-09		5.10E-09	0.08%
219	1	Surface	Total PAH	7.50E-02	6.80E-07	8.66E-07	1.43E-09		1.55E-06	22.96%
219	1	Surface	Uranium-235	1.92E-01	6.95E-08		2.89E-10	3.52E-07	4.22E-07	6.27%
219	1	Surface	Uranium-238	4.40E+00	2.05E-06		6.14E-09	1.69E-06	3.75E-06	55.70%
219	1	Surface	**Totals**		**2.92E-06**	**8.66E-07**	**1.38E-08**	**2.94E-06**	**6.74E-06**	
219	1	Surface	**Percent**		**43.34%**	**12.85%**	**0.21%**	**43.60%**		
221	1	Surface	Chromium	7.01E+01			1.72E-06		1.72E-06	6.25%
221	1	Surface	Nickel	7.93E+01			6.02E-09		6.02E-09	0.02%
221	1	Surface	PCB, Total	5.00E-01	1.24E-06	1.70E-06	1.41E-07		3.08E-06	11.20%
221	1	Surface	Total PAH	1.02E+00	9.27E-06	1.18E-05	1.96E-08		2.11E-05	76.56%
221	1	Surface	Uranium-238	1.93E+00	9.00E-07		2.69E-09	7.43E-07	1.65E-06	5.98%
221	1	Surface	**Totals**		**1.14E-05**	**1.35E-05**	**1.89E-06**	**7.43E-07**	**2.75E-05**	
221	1	Surface	**Percent**		**41.43%**	**49.01%**	**6.86%**	**2.70%**		
222	1	Surface	Chromium	4.73E+01			1.16E-06		1.16E-06	3.28%
222	1	Surface	Nickel	9.19E+01			6.98E-09		6.98E-09	0.02%
222	1	Surface	PCB, Total	1.40E+00	3.48E-06	4.76E-06	3.94E-07		8.63E-06	24.39%
222	1	Surface	Total PAH	1.77E-01	1.61E-06	2.04E-06	3.39E-09		3.65E-06	10.32%
222	1	Surface	Uranium-234	1.04E+01	3.65E-06		1.77E-08	8.86E-09	3.67E-06	10.38%
222	1	Surface	Uranium-235	7.10E-01	2.57E-07		1.07E-09	1.30E-06	1.56E-06	4.41%
222	1	Surface	Uranium-238	1.96E+01	9.14E-06		2.73E-08	7.55E-06	1.67E-05	47.21%
222	1	Surface	**Totals**		**1.81E-05**	**6.81E-06**	**1.61E-06**	**8.86E-06**	**3.54E-05**	
222	1	Surface	**Percent**		**51.19%**	**19.23%**	**4.55%**	**25.03%**		
224	1	Surface	Chromium	4.49E+01			1.10E-06		1.10E-06	0.03%
224	1	Surface	PCB, Total	4.75E+02	1.18E-03	1.62E-03	1.34E-04		2.93E-03	75.37%
224	1	Surface	Total PAH	4.53E+01	4.10E-04	5.22E-04	8.66E-07		9.33E-04	24.01%
224	1	Surface	Uranium-235	2.50E-01	9.05E-08		3.77E-10	4.59E-07	5.50E-07	0.01%
224	1	Surface	Uranium-238	2.64E+01	1.23E-05		3.68E-08	1.02E-05	2.25E-05	0.58%
224	1	Surface	**Totals**		**1.60E-03**	**2.14E-03**	**1.36E-04**	**1.06E-05**	**3.89E-03**	
224	1	Surface	**Percent**		**41.21%**	**55.03%**	**3.49%**	**0.27%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
225	1	Surface	Chromium	2.55E+01			6.25E-07		6.25E-07	15.75%
225	1	Surface	Total PAH	7.79E-02	7.05E-07	8.98E-07	1.49E-09		1.60E-06	40.43%
225	1	Surface	Uranium-238	2.04E+00	9.51E-07		2.85E-09	7.86E-07	1.74E-06	43.82%
225	1	Surface	**Totals**		**1.66E-06**	**8.98E-07**	**6.30E-07**	**7.86E-07**	**3.97E-06**	
225	1	Surface	**Percent**		**41.73%**	**22.62%**	**15.86%**	**19.79%**		
226	1	Surface	Americium-241	1.62E+00	7.82E-07		6.80E-09	1.51E-07	9.40E-07	0.16%
226	1	Surface	Cesium-137	2.65E+00	2.55E-07		4.70E-12	2.27E-05	2.30E-05	3.94%
226	1	Surface	Chromium	4.25E+01			1.04E-06		1.04E-06	0.18%
226	1	Surface	Cobalt-60	3.14E-03	2.81E-10		1.68E-14	1.32E-07	1.32E-07	0.02%
226	1	Surface	Neptunium-237	1.60E+02	5.76E-05		4.23E-07	4.31E-04	4.89E-04	83.70%
226	1	Surface	Nickel	2.10E+02			1.59E-08		1.59E-08	0.00%
226	1	Surface	PCB, Total	1.49E+00	3.70E-06	5.07E-06	4.19E-07		9.19E-06	1.57%
226	1	Surface	Plutonium-238	2.13E+00	1.29E-06		1.07E-08	5.20E-10	1.30E-06	0.22%
226	1	Surface	Plutonium-239/240	6.52E+00	3.99E-06		3.24E-08	4.41E-09	4.03E-06	0.69%
226	1	Surface	Technetium-99	4.96E+01	8.44E-07		1.04E-10	1.36E-08	8.57E-07	0.15%
226	1	Surface	Thorium-230	4.77E+01	2.14E-05		2.03E-07	1.32E-07	2.17E-05	3.72%
226	1	Surface	Total PAH	9.19E-02	8.33E-07	1.06E-06	1.76E-09		1.89E-06	0.32%
226	1	Surface	Uranium-234	2.29E+01	8.04E-06		3.90E-08	1.95E-08	8.10E-06	1.39%
226	1	Surface	Uranium-235	1.10E+00	3.99E-07		1.66E-09	2.02E-06	2.42E-06	0.41%
226	1	Surface	Uranium-238	2.40E+01	1.12E-05		3.35E-08	9.24E-06	2.05E-05	3.51%
226	1	Surface	**Totals**		**1.10E-04**	**6.13E-06**	**2.23E-06**	**4.65E-04**	**5.84E-04**	
226	1	Surface	**Percent**		**18.90%**	**1.05%**	**0.38%**	**79.67%**		
227	1	Surface	Beryllium	5.52E-01	2.95E-06	2.88E-05	3.87E-10		3.18E-05	26.59%
227	1	Surface	Cesium-137	1.90E-01	1.83E-08		3.37E-13	1.63E-06	1.65E-06	1.38%
227	1	Surface	Chromium	4.71E+01			1.16E-06		1.16E-06	0.97%
227	1	Surface	Cobalt-60	1.53E-02	1.37E-09		8.17E-14	6.41E-07	6.42E-07	0.54%
227	1	Surface	Neptunium-237	9.05E-01	3.25E-07		2.39E-09	2.43E-06	2.76E-06	2.31%
227	1	Surface	Nickel	2.03E+02			1.54E-08		1.54E-08	0.01%
227	1	Surface	PCB, Total	4.14E+00	1.03E-05	1.41E-05	1.17E-06		2.55E-05	21.37%
227	1	Surface	Technetium-99	4.77E+01	8.11E-07		1.00E-10	1.31E-08	8.25E-07	0.69%
227	1	Surface	Total PAH	3.38E-01	3.06E-06	3.90E-06	6.46E-09		6.96E-06	5.83%
227	1	Surface	Uranium-234	1.54E+01	5.42E-06		2.63E-08	1.31E-08	5.46E-06	4.56%
227	1	Surface	Uranium-235	1.49E+00	5.39E-07		2.25E-09	2.73E-06	3.28E-06	2.74%
227	1	Surface	Uranium-238	4.63E+01	2.16E-05		6.46E-08	1.78E-05	3.95E-05	33.02%
227	1	Surface	**Totals**		**4.50E-05**	**4.68E-05**	**2.44E-06**	**2.53E-05**	**1.20E-04**	
227	1	Surface	**Percent**		**37.63%**	**39.17%**	**2.04%**	**21.16%**		
227	2	Surface	Beryllium	5.32E-01	2.84E-06	2.78E-05	3.73E-10		3.06E-05	42.40%
227	2	Surface	Chromium	5.63E+01			1.38E-06		1.38E-06	1.91%
227	2	Surface	Cobalt	8.99E+00			2.36E-08		2.36E-08	0.03%
227	2	Surface	Cobalt-60	1.37E-02	1.23E-09		7.32E-14	5.74E-07	5.75E-07	0.80%
227	2	Surface	Nickel	1.25E+02			9.48E-09		9.48E-09	0.01%
227	2	Surface	PCB, Total	5.82E+00	1.45E-05	1.98E-05	1.64E-06		3.59E-05	49.69%
227	2	Surface	Total PAH	1.16E-01	1.05E-06	1.33E-06	2.21E-09		2.38E-06	3.30%
227	2	Surface	Uranium-238	1.57E+00	7.33E-07		2.19E-09	6.06E-07	1.34E-06	1.86%
227	2	Surface	**Totals**		**1.91E-05**	**4.89E-05**	**3.06E-06**	**1.18E-06**	**7.22E-05**	
227	2	Surface	**Percent**		**26.40%**	**67.74%**	**4.23%**	**1.63%**		
228	1	Surface	Cadmium	3.90E+00	1.84E-06	7.20E-07	2.05E-09		2.56E-06	17.52%
228	1	Surface	Chromium	1.89E+02			4.63E-06		4.63E-06	31.67%
228	1	Surface	Neptunium-237	8.00E-01	2.88E-07		2.11E-09	2.15E-06	2.44E-06	16.69%
228	1	Surface	Nickel	7.92E+01			6.01E-09		6.01E-09	0.04%
228	1	Surface	Total PAH	6.69E-02	6.06E-07	7.71E-07	1.28E-09		1.38E-06	9.42%
228	1	Surface	Uranium-235	1.78E-01	6.44E-08		2.68E-10	3.27E-07	3.91E-07	2.67%
228	1	Surface	Uranium-238	3.77E+00	1.76E-06		5.26E-09	1.45E-06	3.22E-06	21.98%
228	1	Surface	**Totals**		**4.56E-06**	**1.49E-06**	**4.65E-06**	**3.93E-06**	**1.46E-05**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
228	1	Surface	**Percent**		**31.14%**	**10.20%**	**31.79%**	**26.87%**		
229	1	Surface	Nickel	9.14E+01			6.94E-09		6.94E-09	0.12%
229	1	Surface	Total PAH	1.57E-01	1.42E-06	1.81E-06	3.00E-09		3.23E-06	56.92%
229	1	Surface	Uranium-238	2.86E+00	1.33E-06		3.99E-09	1.10E-06	2.44E-06	42.95%
229	1	Surface	**Totals**		**2.75E-06**	**1.81E-06**	**1.39E-08**	**1.10E-06**	**5.68E-06**	
229	1	Surface	**Percent**		**48.50%**	**31.85%**	**0.25%**	**19.40%**		
229	2	Surface	Arsenic	2.12E+01	3.95E-05	1.16E-05	2.67E-08		5.11E-05	31.83%
229	2	Surface	Beryllium	7.90E-01	4.22E-06	4.13E-05	5.54E-10		4.55E-05	28.34%
229	2	Surface	Chromium	2.91E+01			7.15E-07		7.15E-07	0.45%
229	2	Surface	Neptunium-237	2.87E-01	1.03E-07		7.58E-10	7.72E-07	8.76E-07	0.55%
229	2	Surface	Nickel	9.93E+01			7.53E-09		7.53E-09	0.00%
229	2	Surface	Total PAH	1.69E+00	1.54E-05	1.95E-05	3.24E-08		3.49E-05	21.77%
229	2	Surface	Uranium-234	1.22E+01	4.28E-06		2.07E-08	1.04E-08	4.31E-06	2.69%
229	2	Surface	Uranium-235	8.40E-01	3.04E-07		1.27E-09	1.54E-06	1.85E-06	1.15%
229	2	Surface	Uranium-238	2.49E+01	1.16E-05		3.47E-08	9.59E-06	2.12E-05	13.23%
229	2	Surface	**Totals**		**7.53E-05**	**7.24E-05**	**8.39E-07**	**1.19E-05**	**1.61E-04**	
229	2	Surface	**Percent**		**46.94%**	**45.11%**	**0.52%**	**7.42%**		
483	1	Surface	Nickel	1.17E+02			8.85E-09		8.85E-09	1.76%
483	1	Surface	Total PAH	2.39E-02	2.17E-07	2.76E-07	4.57E-10		4.93E-07	98.24%
483	1	Surface	**Totals**		**2.17E-07**	**2.76E-07**	**9.31E-09**		**5.02E-07**	
483	1	Surface	**Percent**		**43.18%**	**54.96%**	**1.86%**			
486	1	Surface	Cesium-137	1.71E+00	1.64E-07		3.04E-12	1.47E-05	1.48E-05	100.00%
486	1	Surface	**Totals**		**1.64E-07**		**3.04E-12**	**1.47E-05**	**1.48E-05**	
486	1	Surface	**Percent**		**1.11%**		**0.00%**	**98.89%**		
487	1	Surface	Cesium-137	1.38E+00	1.33E-07		2.45E-12	1.18E-05	1.20E-05	100.00%
487	1	Surface	**Totals**		**1.33E-07**		**2.45E-12**	**1.18E-05**	**1.20E-05**	
487	1	Surface	**Percent**		**1.11%**		**0.00%**	**98.89%**		
488	1	Surface	Cesium-137	5.20E-01	5.00E-08		9.23E-13	4.46E-06	4.51E-06	5.83%
488	1	Surface	PCB, Total	1.03E+01	2.56E-05	3.51E-05	2.90E-06		6.35E-05	82.09%
488	1	Surface	Total PAH	2.50E-01	2.26E-06	2.88E-06	4.78E-09		5.15E-06	6.65%
488	1	Surface	Uranium-235	1.49E-01	5.39E-08		2.25E-10	2.73E-07	3.28E-07	0.42%
488	1	Surface	Uranium-238	4.54E+00	2.12E-06		6.33E-09	1.75E-06	3.87E-06	5.00%
488	1	Surface	**Totals**		**3.01E-05**	**3.79E-05**	**2.91E-06**	**6.49E-06**	**7.74E-05**	
488	1	Surface	**Percent**		**38.84%**	**49.02%**	**3.76%**	**8.38%**		
489	1	Surface	Chromium	4.16E+01			1.02E-06		1.02E-06	25.69%
489	1	Surface	Nickel	7.88E+01			5.98E-09		5.98E-09	0.15%
489	1	Surface	Total PAH	8.22E-02	7.45E-07	9.48E-07	1.57E-09		1.69E-06	42.62%
489	1	Surface	Uranium-238	1.47E+00	6.85E-07		2.05E-09	5.66E-07	1.25E-06	31.54%
489	1	Surface	**Totals**		**1.43E-06**	**9.48E-07**	**1.03E-06**	**5.66E-07**	**3.97E-06**	
489	1	Surface	**Percent**		**35.98%**	**23.85%**	**25.93%**	**14.25%**		
492	1	Surface	Arsenic	1.47E+01	2.74E-05	8.04E-06	1.85E-08		3.54E-05	2.74%
492	1	Surface	Beryllium	1.04E+01	5.55E-05	5.43E-04	7.29E-09		5.99E-04	46.31%
492	1	Surface	Cadmium	3.14E+00	1.48E-06	5.80E-07	1.65E-09		2.06E-06	0.16%
492	1	Surface	Chromium	1.04E+03			2.55E-05		2.55E-05	1.97%
492	1	Surface	Cobalt-60	9.63E-03	8.62E-10		5.14E-14	4.03E-07	4.04E-07	0.03%
492	1	Surface	Neptunium-237	2.09E-01	7.52E-08		5.52E-10	5.62E-07	6.38E-07	0.05%
492	1	Surface	PCB, Total	4.41E+01	1.09E-04	1.50E-04	1.24E-05		2.72E-04	21.03%
492	1	Surface	Uranium-234	5.39E+01	1.89E-05		9.17E-08	4.59E-08	1.90E-05	1.47%
492	1	Surface	Uranium-235	5.72E+00	2.07E-06		8.62E-09	1.05E-05	1.26E-05	0.97%
492	1	Surface	Uranium-238	3.83E+02	1.79E-04		5.34E-07	1.48E-04	3.27E-04	25.26%
492	1	Surface	**Totals**		**3.93E-04**	**7.02E-04**	**3.86E-05**	**1.59E-04**	**1.29E-03**	
492	1	Surface	**Percent**		**30.43%**	**54.29%**	**2.98%**	**12.30%**		
493	1	Surface	Beryllium	9.91E-01	5.29E-06	5.18E-05	6.94E-10		5.71E-05	74.39%
493	1	Surface	Chromium	6.61E+01			1.62E-06		1.62E-06	2.11%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
493	1	Surface	Cobalt	3.79E+01			9.96E-08		9.96E-08	0.13%
493	1	Surface	Cobalt-60	1.36E-02	1.22E-09		7.26E-14	5.70E-07	5.71E-07	0.74%
493	1	Surface	Neptunium-237	1.22E-01	4.39E-08		3.22E-10	3.28E-07	3.72E-07	0.49%
493	1	Surface	Nickel	2.13E+02			1.62E-08		1.62E-08	0.02%
493	1	Surface	PCB, Total	2.60E-01	6.45E-07	8.85E-07	7.31E-08		1.60E-06	2.09%
493	1	Surface	Total PAH	5.00E-01	4.53E-06	5.77E-06	9.56E-09		1.03E-05	13.44%
493	1	Surface	Uranium-235	1.65E-01	5.97E-08		2.49E-10	3.03E-07	3.63E-07	0.47%
493	1	Surface	Uranium-238	5.50E+00	2.56E-06		7.67E-09	2.12E-06	4.69E-06	6.12%
493	1	Surface	**Totals**		**1.31E-05**	**5.84E-05**	**1.83E-06**	**3.32E-06**	**7.67E-05**	
493	1	Surface	**Percent**		**17.12%**	**76.16%**	**2.38%**	**4.33%**		
517	1	Surface	Beryllium	7.39E-01	3.94E-06	3.86E-05	5.18E-10		4.25E-05	78.72%
517	1	Surface	Chromium	4.91E+01			1.20E-06		1.20E-06	2.23%
517	1	Surface	Cobalt-60	6.39E-03	5.72E-10		3.41E-14	2.68E-07	2.68E-07	0.50%
517	1	Surface	Neptunium-237	1.07E+00	3.85E-07		2.83E-09	2.88E-06	3.27E-06	6.04%
517	1	Surface	Nickel	1.72E+02			1.31E-08		1.31E-08	0.02%
517	1	Surface	PCB, Total	5.00E-01	1.24E-06	1.70E-06	1.41E-07		3.08E-06	5.70%
517	1	Surface	Uranium-235	1.60E-01	5.79E-08		2.41E-10	2.94E-07	3.52E-07	0.65%
517	1	Surface	Uranium-238	3.89E+00	1.81E-06		5.43E-09	1.50E-06	3.32E-06	6.14%
517	1	Surface	**Totals**		**7.44E-06**	**4.03E-05**	**1.37E-06**	**4.94E-06**	**5.41E-05**	
517	1	Surface	**Percent**		**13.77%**	**74.57%**	**2.53%**	**9.14%**		
518	1	Surface	Carbazole	1.17E+01	2.91E-07	2.85E-07			5.76E-07	0.57%
518	1	Surface	Cobalt	6.80E+00			1.79E-08		1.79E-08	0.02%
518	1	Surface	Nickel	1.29E+01			9.76E-10		9.76E-10	0.00%
518	1	Surface	PCB, Total	6.30E-01	1.56E-06	2.14E-06	1.77E-07		3.89E-06	3.83%
518	1	Surface	Total PAH	4.64E+00	4.20E-05	5.35E-05	8.87E-08		9.56E-05	94.17%
518	1	Surface	Uranium-235	6.74E-02	2.44E-08		1.02E-10	1.24E-07	1.48E-07	0.15%
518	1	Surface	Uranium-238	1.51E+00	7.06E-07		2.11E-09	5.83E-07	1.29E-06	1.27%
518	1	Surface	**Totals**		**4.46E-05**	**5.59E-05**	**2.87E-07**	**7.07E-07**	**1.02E-04**	
518	1	Surface	**Percent**		**43.94%**	**55.08%**	**0.28%**	**0.70%**		
520	1	Surface	Cesium-137	9.62E-01	9.25E-08		1.71E-12	8.26E-06	8.35E-06	40.53%
520	1	Surface	Chromium	3.17E+01			7.78E-07		7.78E-07	3.78%
520	1	Surface	Neptunium-237	6.56E-01	2.36E-07		1.73E-09	1.76E-06	2.00E-06	9.72%
520	1	Surface	Nickel	2.60E+02			1.98E-08		1.98E-08	0.10%
520	1	Surface	Thorium-230	1.13E+01	5.09E-06		4.82E-08	3.14E-08	5.16E-06	25.08%
520	1	Surface	Total PAH	3.18E-02	2.88E-07	3.67E-07	6.09E-10		6.56E-07	3.19%
520	1	Surface	Uranium-235	1.26E-01	4.56E-08		1.90E-10	2.31E-07	2.77E-07	1.34%
520	1	Surface	Uranium-238	3.93E+00	1.83E-06		5.48E-09	1.51E-06	3.35E-06	16.27%
520	1	Surface	**Totals**		**7.58E-06**	**3.67E-07**	**8.54E-07**	**1.18E-05**	**2.06E-05**	
520	1	Surface	**Percent**		**36.80%**	**1.78%**	**4.15%**	**57.27%**		
520	2	Surface	Beryllium	5.79E-01	3.09E-06	3.02E-05	4.06E-10		3.33E-05	77.04%
520	2	Surface	Chromium	6.67E+01			1.63E-06		1.63E-06	3.78%
520	2	Surface	Neptunium-237	7.48E-02	2.69E-08		1.98E-10	2.01E-07	2.28E-07	0.53%
520	2	Surface	Nickel	3.11E+02			2.36E-08		2.36E-08	0.05%
520	2	Surface	Total PAH	3.17E-01	2.87E-06	3.66E-06	6.06E-09		6.53E-06	15.10%
520	2	Surface	Uranium-238	1.78E+00	8.29E-07		2.48E-09	6.85E-07	1.52E-06	3.50%
520	2	Surface	**Totals**		**6.82E-06**	**3.39E-05**	**1.67E-06**	**8.86E-07**	**4.33E-05**	
520	2	Surface	**Percent**		**15.76%**	**78.34%**	**3.85%**	**2.05%**		
520	3	Surface	Chromium	3.97E+01			9.73E-07		9.73E-07	20.42%
520	3	Surface	Nickel	2.65E+02			2.01E-08		2.01E-08	0.42%
520	3	Surface	Total PAH	1.18E-01	1.07E-06	1.36E-06	2.26E-09		2.43E-06	51.07%
520	3	Surface	Uranium-238	1.57E+00	7.32E-07		2.19E-09	6.05E-07	1.34E-06	28.09%
520	3	Surface	**Totals**		**1.80E-06**	**1.36E-06**	**9.98E-07**	**6.05E-07**	**4.77E-06**	
520	3	Surface	**Percent**		**37.80%**	**28.58%**	**20.93%**	**12.69%**		
520	4	Surface	Chromium	3.82E+01			9.38E-07		9.38E-07	4.58%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
520	4	Surface	Neptunium-237	7.40E-01	2.66E-07		1.95E-09	1.99E-06	2.26E-06	11.03%
520	4	Surface	Nickel	2.82E+02			2.14E-08		2.14E-08	0.10%
520	4	Surface	Total PAH	5.52E-01	5.01E-06	6.37E-06	1.06E-08		1.14E-05	55.62%
520	4	Surface	Uranium-235	2.42E-01	8.76E-08		3.65E-10	4.44E-07	5.32E-07	2.60%
520	4	Surface	Uranium-238	6.26E+00	2.92E-06		8.73E-09	2.41E-06	5.34E-06	26.07%
520	4	Surface	**Totals**		**8.28E-06**	**6.37E-06**	**9.81E-07**	**4.85E-06**	**2.05E-05**	
520	4	Surface	**Percent**		**40.43%**	**31.12%**	**4.79%**	**23.67%**		
520	5	Surface	Chromium	3.68E+01			9.03E-07		9.03E-07	8.51%
520	5	Surface	Neptunium-237	1.55E-01	5.57E-08		4.09E-10	4.17E-07	4.73E-07	4.46%
520	5	Surface	Nickel	1.47E+02			1.12E-08		1.12E-08	0.11%
520	5	Surface	Total PAH	3.87E-01	3.51E-06	4.47E-06	7.40E-09		7.98E-06	75.26%
520	5	Surface	Uranium-238	1.45E+00	6.76E-07		2.02E-09	5.59E-07	1.24E-06	11.66%
520	5	Surface	**Totals**		**4.24E-06**	**4.47E-06**	**9.24E-07**	**9.75E-07**	**1.06E-05**	
520	5	Surface	**Percent**		**39.98%**	**42.11%**	**8.71%**	**9.20%**		
531	1	Surface	Arsenic	4.68E+01	8.72E-05	2.56E-05	5.90E-08		1.13E-04	93.65%
531	1	Surface	Cadmium	3.10E+00	1.46E-06	5.73E-07	1.63E-09		2.04E-06	1.69%
531	1	Surface	Chromium	5.05E+01			1.24E-06		1.24E-06	1.03%
531	1	Surface	Nickel	1.62E+02			1.23E-08		1.23E-08	0.01%
531	1	Surface	Total PAH	5.34E-02	4.84E-07	6.16E-07	1.02E-09		1.10E-06	0.91%
531	1	Surface	Uranium-235	1.38E-01	4.99E-08		2.08E-10	2.53E-07	3.03E-07	0.25%
531	1	Surface	Uranium-238	3.48E+00	1.62E-06		4.85E-09	1.34E-06	2.97E-06	2.46%
531	1	Surface	**Totals**		**9.08E-05**	**2.68E-05**	**1.32E-06**	**1.59E-06**	**1.20E-04**	
531	1	Surface	**Percent**		**75.35%**	**22.24%**	**1.09%**	**1.32%**		
541	1	Surface	Americium-241	7.53E+00	3.63E-06		3.16E-08	7.02E-07	4.36E-06	0.30%
541	1	Surface	Beryllium	6.98E-01	3.73E-06	3.65E-05	4.89E-10		4.02E-05	2.79%
541	1	Surface	Cadmium	1.68E+00	7.93E-07	3.11E-07	8.84E-10		1.10E-06	0.08%
541	1	Surface	Cesium-137	9.58E-01	9.21E-08		1.70E-12	8.22E-06	8.31E-06	0.58%
541	1	Surface	Chromium	8.24E+02			2.02E-05		2.02E-05	1.40%
541	1	Surface	Cobalt-60	1.01E-02	9.04E-10		5.39E-14	4.23E-07	4.24E-07	0.03%
541	1	Surface	Naphthalene	6.55E-01			2.17E-07		2.17E-07	0.02%
541	1	Surface	Neptunium-237	5.52E-02	1.99E-08		1.46E-10	1.48E-07	1.68E-07	0.01%
541	1	Surface	Nickel	1.52E+01			1.16E-09		1.16E-09	0.00%
541	1	Surface	PCB, Total	6.06E+01	1.50E-04	2.06E-04	1.70E-05		3.74E-04	25.97%
541	1	Surface	Total PAH	2.33E+00	2.11E-05	2.69E-05	4.45E-08		4.80E-05	3.34%
541	1	Surface	Uranium-234	1.43E+02	5.01E-05		2.43E-07	1.22E-07	5.05E-05	3.51%
541	1	Surface	Uranium-235	1.76E+01	6.35E-06		2.65E-08	3.22E-05	3.86E-05	2.68%
541	1	Surface	Uranium-238	1.00E+03	4.67E-04		1.40E-06	3.86E-04	8.54E-04	59.30%
541	1	Surface	**Totals**		**7.03E-04**	**2.70E-04**	**3.92E-05**	**4.27E-04**	**1.44E-03**	
541	1	Surface	**Percent**		**48.83%**	**18.75%**	**2.72%**	**29.69%**		
561	1	Surface	Arsenic	1.66E+01	3.08E-05	9.05E-06	2.08E-08		3.99E-05	20.89%
561	1	Surface	Beryllium	6.85E-01	3.66E-06	3.58E-05	4.80E-10		3.94E-05	20.66%
561	1	Surface	Chromium	8.58E+01			2.10E-06		2.10E-06	1.10%
561	1	Surface	Cobalt	1.07E+01			2.81E-08		2.81E-08	0.01%
561	1	Surface	Cobalt-60	7.06E-02	6.32E-09		3.77E-13	2.96E-06	2.96E-06	1.55%
561	1	Surface	Neptunium-237	2.71E-02	9.75E-09		7.16E-11	7.29E-08	8.27E-08	0.04%
561	1	Surface	PCB, Total	1.04E+00	2.59E-06	3.55E-06	2.93E-07		6.43E-06	3.37%
561	1	Surface	Total PAH	1.65E-01	1.50E-06	1.90E-06	3.16E-09		3.40E-06	1.78%
561	1	Surface	Uranium-234	7.84E+00	2.75E-06		1.33E-08	6.67E-09	2.77E-06	1.45%
561	1	Surface	Uranium-235	1.37E+00	4.94E-07		2.06E-09	2.51E-06	3.00E-06	1.57%
561	1	Surface	Uranium-238	1.07E+02	4.97E-05		1.49E-07	4.10E-05	9.08E-05	47.57%
561	1	Surface	**Totals**		**9.15E-05**	**5.03E-05**	**2.61E-06**	**4.66E-05**	**1.91E-04**	
561	1	Surface	**Percent**		**47.90%**	**26.34%**	**1.37%**	**24.39%**		
561	2	Surface	Arsenic	1.30E+01	2.42E-05	7.12E-06	1.64E-08		3.14E-05	5.58%
561	2	Surface	Beryllium	6.34E-01	3.38E-06	3.31E-05	4.44E-10		3.65E-05	6.50%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
561	2	Surface	Cadmium	4.13E-01	1.95E-07	7.63E-08	2.17E-10		2.71E-07	0.05%
561	2	Surface	Cesium-137	4.09E-01	3.93E-08		7.26E-13	3.51E-06	3.55E-06	0.63%
561	2	Surface	Chromium	2.88E+02			7.07E-06		7.07E-06	1.26%
561	2	Surface	Cobalt	1.14E+01			3.00E-08		3.00E-08	0.01%
561	2	Surface	Cobalt-60	2.76E-02	2.47E-09		1.47E-13	1.16E-06	1.16E-06	0.21%
561	2	Surface	Neptunium-237	4.71E-02	1.69E-08		1.24E-10	1.27E-07	1.44E-07	0.03%
561	2	Surface	PCB, Total	1.64E+01	4.06E-05	5.57E-05	4.60E-06		1.01E-04	17.97%
561	2	Surface	Total PAH	4.43E-01	4.01E-06	5.11E-06	8.47E-09		9.13E-06	1.63%
561	2	Surface	Uranium-234	4.06E+01	1.43E-05		6.91E-08	3.46E-08	1.44E-05	2.56%
561	2	Surface	Uranium-235	7.09E+00	2.57E-06		1.07E-08	1.30E-05	1.56E-05	2.78%
561	2	Surface	Uranium-238	4.00E+02	1.87E-04		5.58E-07	1.54E-04	3.41E-04	60.81%
561	2	Surface	**Totals**		**2.76E-04**	**1.01E-04**	**1.24E-05**	**1.72E-04**	**5.61E-04**	
561	2	Surface	**Percent**		**49.15%**	**18.01%**	**2.20%**	**30.64%**		
562	1	Surface	Uranium-238	2.73E+00	1.27E-06		3.81E-09	1.05E-06	2.33E-06	100.00%
562	1	Surface	**Totals**		**1.27E-06**		**3.81E-09**	**1.05E-06**	**2.33E-06**	
562	1	Surface	**Percent**		**54.67%**		**0.16%**	**45.17%**		
562	2	Surface	PCB, Total	1.58E+00	3.92E-06	5.38E-06	4.44E-07		9.74E-06	1.79%
562	2	Surface	Uranium-234	5.34E+01	1.87E-05		9.08E-08	4.55E-08	1.89E-05	3.47%
562	2	Surface	Uranium-235	8.96E+00	3.24E-06		1.35E-08	1.64E-05	1.97E-05	3.62%
562	2	Surface	Uranium-238	5.81E+02	2.71E-04		8.10E-07	2.24E-04	4.95E-04	91.12%
562	2	Surface	**Totals**		**2.97E-04**	**5.38E-06**	**1.36E-06**	**2.40E-04**	**5.44E-04**	
562	2	Surface	**Percent**		**54.57%**	**0.99%**	**0.25%**	**44.19%**		
562	3	Surface	Chromium	3.82E+01			9.36E-07		9.36E-07	5.64%
562	3	Surface	PCB, Total	2.40E-01	5.96E-07	8.17E-07	6.75E-08		1.48E-06	8.91%
562	3	Surface	Total PAH	2.20E-01	1.99E-06	2.54E-06	4.21E-09		4.54E-06	27.31%
562	3	Surface	Uranium-235	1.63E-01	5.90E-08		2.46E-10	2.99E-07	3.58E-07	2.16%
562	3	Surface	Uranium-238	1.09E+01	5.08E-06		1.52E-08	4.20E-06	9.30E-06	55.98%
562	3	Surface	**Totals**		**7.73E-06**	**3.35E-06**	**1.02E-06**	**4.50E-06**	**1.66E-05**	
562	3	Surface	**Percent**		**46.55%**	**20.20%**	**6.16%**	**27.09%**		
562	4	Surface	Chromium	4.67E+01			1.14E-06		1.14E-06	37.46%
562	4	Surface	Uranium-238	2.24E+00	1.04E-06		3.12E-09	8.63E-07	1.91E-06	62.54%
562	4	Surface	**Totals**		**1.04E-06**		**1.15E-06**	**8.63E-07**	**3.05E-06**	
562	4	Surface	**Percent**		**34.19%**		**37.56%**	**28.25%**		
562	5	Surface	Chromium	1.53E+02			3.76E-06		3.76E-06	5.41%
562	5	Surface	PCB, Total	9.50E-01	2.36E-06	3.23E-06	2.67E-07		5.86E-06	8.44%
562	5	Surface	Total PAH	7.05E-02	6.39E-07	8.13E-07	1.35E-09		1.45E-06	2.09%
562	5	Surface	Uranium-234	8.57E+00	3.01E-06		1.46E-08	7.30E-09	3.03E-06	4.36%
562	5	Surface	Uranium-235	9.50E-01	3.44E-07		1.43E-09	1.74E-06	2.09E-06	3.01%
562	5	Surface	Uranium-238	6.24E+01	2.91E-05		8.70E-08	2.40E-05	5.32E-05	76.68%
562	5	Surface	**Totals**		**3.54E-05**	**4.05E-06**	**4.13E-06**	**2.58E-05**	**6.94E-05**	
562	5	Surface	**Percent**		**51.06%**	**5.83%**	**5.95%**	**37.16%**		
563	1	Surface	Cadmium	8.96E-01	4.23E-07	1.66E-07	4.71E-10		5.89E-07	4.06%
563	1	Surface	Chromium	2.85E+02			6.99E-06		6.99E-06	48.22%
563	1	Surface	PCB, Total	7.40E-01	1.84E-06	2.52E-06	2.08E-07		4.56E-06	31.48%
563	1	Surface	Uranium-238	2.76E+00	1.29E-06		3.85E-09	1.06E-06	2.35E-06	16.24%
563	1	Surface	**Totals**		**3.55E-06**	**2.68E-06**	**7.20E-06**	**1.06E-06**	**1.45E-05**	
563	1	Surface	**Percent**		**24.47%**	**18.52%**	**49.68%**	**7.33%**		
563	2	Surface	Cesium-137	6.47E-01	6.22E-08		1.15E-12	5.55E-06	5.62E-06	81.55%
563	2	Surface	Uranium-238	1.49E+00	6.95E-07		2.08E-09	5.74E-07	1.27E-06	18.45%
563	2	Surface	**Totals**		**7.57E-07**		**2.08E-09**	**6.13E-06**	**6.89E-06**	
563	2	Surface	**Percent**		**10.99%**		**0.03%**	**88.98%**		
564	1	Surface	Arsenic	4.30E+01	8.01E-05	2.35E-05	5.42E-08		1.04E-04	40.05%
564	1	Surface	Beryllium	2.12E+00	1.13E-05	1.11E-04	1.49E-09		1.22E-04	47.17%
564	1	Surface	Cadmium	1.96E+00	9.24E-07	3.62E-07	1.03E-09		1.29E-06	0.50%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.30. ELCR for the Outdoor Worker Exposed to Surface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
564	1	Surface	Cesium-137	6.20E-01	5.96E-08		1.10E-12	5.32E-06	5.38E-06	2.08%
564	1	Surface	Chromium	7.49E+01			1.84E-06		1.84E-06	0.71%
564	1	Surface	Nickel	2.24E+01			1.70E-09		1.70E-09	0.00%
564	1	Surface	PCB, Total	1.93E+00	4.79E-06	6.57E-06	5.43E-07		1.19E-05	4.60%
564	1	Surface	Thorium-230	5.01E+00	2.25E-06		2.13E-08	1.39E-08	2.28E-06	0.88%
564	1	Surface	Uranium-234	6.93E+00	2.43E-06		1.18E-08	5.90E-09	2.45E-06	0.95%
564	1	Surface	Uranium-235	3.87E-01	1.40E-07		5.83E-10	7.10E-07	8.51E-07	0.33%
564	1	Surface	Uranium-238	8.33E+00	3.88E-06		1.16E-08	3.21E-06	7.10E-06	2.75%
564	1	Surface	**Totals**		**1.06E-04**	**1.41E-04**	**2.48E-06**	**9.26E-06**	**2.59E-04**	
564	1	Surface	**Percent**		**40.90%**	**54.56%**	**0.96%**	**3.58%**		
567	3	Surface	Chromium	3.79E+01			9.29E-07		9.29E-07	100.00%
567	3	Surface	**Totals**				**9.29E-07**		**9.29E-07**	
567	3	Surface	**Percent**				**100.00%**			
567	4	Surface	Chromium	1.63E+01			4.00E-07		4.00E-07	30.88%
567	4	Surface	Uranium-238	1.05E+00	4.89E-07		1.46E-09	4.04E-07	8.95E-07	69.12%
567	4	Surface	**Totals**		**4.89E-07**		**4.01E-07**	**4.04E-07**	**1.29E-06**	
567	4	Surface	**Percent**		**37.78%**		**31.00%**	**31.22%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
1	1	Subsurface	Arsenic	6.74E+00	1.26E-05	3.69E-06	8.49E-09		1.63E-05	6.35%
1	1	Subsurface	Beryllium	3.37E+00	1.80E-05	1.76E-04	2.36E-09		1.94E-04	75.78%
1	1	Subsurface	Cadmium	1.83E+00	8.62E-07	3.38E-07	9.61E-10		1.20E-06	0.47%
1	1	Subsurface	Cesium-137	5.91E-01	5.68E-08		1.05E-12	5.07E-06	5.13E-06	2.00%
1	1	Subsurface	Chromium	2.32E+01			5.69E-07		5.69E-07	0.22%
1	1	Subsurface	Cobalt	1.05E+01			2.77E-08		2.77E-08	0.01%
1	1	Subsurface	Neptunium-237	4.02E-01	1.45E-07		1.06E-09	1.08E-06	1.23E-06	0.48%
1	1	Subsurface	Nickel	1.62E+01			1.23E-09		1.23E-09	0.00%
1	1	Subsurface	PCB, Total	1.20E-01	2.98E-07	4.08E-07	3.38E-08		7.40E-07	0.29%
1	1	Subsurface	Plutonium-239/240	6.14E+00	3.76E-06		3.05E-08	4.15E-09	3.80E-06	1.48%
1	1	Subsurface	Thorium-230	4.40E+01	1.97E-05		1.87E-07	1.22E-07	2.00E-05	7.83%
1	1	Subsurface	Trichloroethene	6.90E-01	2.76E-07	6.75E-07	1.02E-05		1.11E-05	4.34%
1	1	Subsurface	Uranium-235	1.06E-01	3.84E-08		1.60E-10	1.94E-07	2.33E-07	0.09%
1	1	Subsurface	Uranium-238	1.97E+00	9.20E-07		2.75E-09	7.60E-07	1.68E-06	0.66%
1	1	Subsurface	**Totals**		**5.66E-05**	**1.81E-04**	**1.10E-05**	**7.23E-06**	**2.56E-04**	
1	1	Subsurface	**Percent**		**22.12%**	**70.75%**	**4.31%**	**2.83%**		
1	2	Subsurface	Arsenic	7.82E+00	1.46E-05	4.28E-06	9.85E-09		1.88E-05	1.28%
1	2	Subsurface	Beryllium	5.07E+00	2.70E-05	2.65E-04	3.55E-09		2.92E-04	19.84%
1	2	Subsurface	Cadmium	3.74E+00	1.76E-06	6.91E-07	1.96E-09		2.46E-06	0.17%
1	2	Subsurface	Chromium	1.26E+02			3.08E-06		3.08E-06	0.21%
1	2	Subsurface	Nickel	4.96E+01			3.77E-09		3.77E-09	0.00%
1	2	Subsurface	PCB, Total	1.47E+01	3.65E-05	5.01E-05	4.14E-06		9.08E-05	6.17%
1	2	Subsurface	Trichloroethene	6.48E+01	2.59E-05	6.34E-05	9.55E-04		1.04E-03	70.99%
1	2	Subsurface	Vinyl chloride	4.47E+00	4.00E-06	9.78E-06	6.05E-06		1.98E-05	1.35%
1	2	Subsurface	**Totals**		**1.10E-04**	**3.93E-04**	**9.68E-04**		**1.47E-03**	
1	2	Subsurface	**Percent**		**7.47%**	**26.72%**	**65.82%**			
1	3	Subsurface	Arsenic	6.24E+00	1.16E-05	3.41E-06	7.85E-09		1.50E-05	75.26%
1	3	Subsurface	Cadmium	3.32E+00	1.57E-06	6.13E-07	1.74E-09		2.18E-06	10.92%
1	3	Subsurface	Nickel	2.16E+01			1.64E-09		1.64E-09	0.01%
1	3	Subsurface	PCB, Total	2.08E-01	5.16E-07	7.08E-07	5.85E-08		1.28E-06	6.42%
1	3	Subsurface	Uranium-238	1.73E+00	8.07E-07		2.41E-09	6.66E-07	1.48E-06	7.39%
1	3	Subsurface	**Totals**		**1.45E-05**	**4.73E-06**	**7.22E-08**	**6.66E-07**	**2.00E-05**	
1	3	Subsurface	**Percent**		**72.61%**	**23.69%**	**0.36%**	**3.34%**		
1	4	Subsurface	Beryllium	7.52E-01	4.01E-06	3.93E-05	5.27E-10		4.33E-05	77.07%
1	4	Subsurface	Cadmium	2.09E+00	9.83E-07	3.85E-07	1.10E-09		1.37E-06	2.44%
1	4	Subsurface	Cesium-137	3.37E-01	3.24E-08		5.98E-13	2.89E-06	2.92E-06	5.21%
1	4	Subsurface	Chromium	7.09E+01			1.74E-06		1.74E-06	3.10%
1	4	Subsurface	Cobalt-60	2.20E-02	1.97E-09		1.18E-13	9.22E-07	9.24E-07	1.64%
1	4	Subsurface	Nickel	2.81E+01			2.13E-09		2.13E-09	0.00%
1	4	Subsurface	PCB, Total	9.24E-02	2.29E-07	3.14E-07	2.60E-08		5.70E-07	1.01%
1	4	Subsurface	Thorium-230	5.03E+00	2.26E-06		2.14E-08	1.39E-08	2.29E-06	4.08%
1	4	Subsurface	Trichloroethene	1.90E-01	7.59E-08	1.86E-07	2.80E-06		3.06E-06	5.45%
1	4	Subsurface	**Totals**		**7.59E-06**	**4.02E-05**	**4.59E-06**	**3.83E-06**	**5.62E-05**	
1	4	Subsurface	**Percent**		**13.51%**	**71.50%**	**8.17%**	**6.81%**		
1	5	Subsurface	Arsenic	1.67E+01	3.11E-05	9.13E-06	2.10E-08		4.02E-05	7.68%
1	5	Subsurface	Beryllium	8.30E+00	4.43E-05	4.34E-04	5.82E-09		4.78E-04	91.23%
1	5	Subsurface	Cadmium	2.97E+00	1.40E-06	5.49E-07	1.56E-09		1.95E-06	0.37%
1	5	Subsurface	Cobalt	1.43E+01			3.76E-08		3.76E-08	0.01%
1	5	Subsurface	Nickel	4.07E+01			3.09E-09		3.09E-09	0.00%
1	5	Subsurface	PCB, Total	2.70E-01	6.70E-07	9.19E-07	7.59E-08		1.67E-06	0.32%
1	5	Subsurface	Total PAH	9.83E-02	8.91E-07	1.13E-06	1.88E-09		2.03E-06	0.39%
1	5	Subsurface	**Totals**		**7.84E-05**	**4.45E-04**	**1.47E-07**		**5.24E-04**	
1	5	Subsurface	**Percent**		**14.96%**	**85.01%**	**0.03%**			
12	1	Subsurface	Arsenic	1.43E+01	2.66E-05	7.82E-06	1.80E-08		3.44E-05	9.50%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
12	1	Subsurface	Beryllium	4.75E+00	2.54E-05	2.48E-04	3.33E-09		2.74E-04	75.42%
12	1	Subsurface	Cadmium	1.08E+00	5.08E-07	1.99E-07	5.67E-10		7.08E-07	0.20%
12	1	Subsurface	Chromium	5.01E+01			1.23E-06		1.23E-06	0.34%
12	1	Subsurface	Cobalt	2.47E+01			6.49E-08		6.49E-08	0.02%
12	1	Subsurface	Cobalt-60	1.58E-02	1.41E-09		8.44E-14	6.62E-07	6.63E-07	0.18%
12	1	Subsurface	Nickel	8.72E+01			6.62E-09		6.62E-09	0.00%
12	1	Subsurface	PCB, Total	7.30E-01	1.81E-06	2.48E-06	2.05E-07		4.50E-06	1.24%
12	1	Subsurface	Total PAH	2.71E-01	2.46E-06	3.13E-06	5.18E-09		5.59E-06	1.54%
12	1	Subsurface	Uranium-234	9.11E+00	3.19E-06		1.55E-08	7.76E-09	3.22E-06	0.89%
12	1	Subsurface	Uranium-235	1.01E+00	3.64E-07		1.51E-09	1.84E-06	2.21E-06	0.61%
12	1	Subsurface	Uranium-238	4.28E+01	2.00E-05		5.97E-08	1.65E-05	3.65E-05	10.06%
12	1	Subsurface	**Totals**		**8.03E-05**	**2.62E-04**	**1.61E-06**	**1.90E-05**	**3.63E-04**	
12	1	Subsurface	**Percent**		**22.13%**	**72.19%**	**0.44%**	**5.24%**		
13	1	Subsurface	Beryllium	6.24E-01	3.33E-06	3.26E-05	4.37E-10		3.59E-05	87.83%
13	1	Subsurface	Cadmium	2.25E+00	1.06E-06	4.15E-07	1.18E-09		1.48E-06	3.61%
13	1	Subsurface	Cobalt-60	4.47E-03	4.00E-10		2.39E-14	1.87E-07	1.88E-07	0.46%
13	1	Subsurface	PCB, Total	3.44E-01	8.54E-07	1.17E-06	9.68E-08		2.12E-06	5.19%
13	1	Subsurface	Uranium-238	1.40E+00	6.54E-07		1.96E-09	5.40E-07	1.20E-06	2.92%
13	1	Subsurface	**Totals**		**5.90E-06**	**3.42E-05**	**1.00E-07**	**7.27E-07**	**4.09E-05**	
13	1	Subsurface	**Percent**		**14.42%**	**83.56%**	**0.25%**	**1.78%**		
13	2	Subsurface	Cadmium	1.85E+00	8.71E-07	3.41E-07	9.70E-10		1.21E-06	89.91%
13	2	Subsurface	Cobalt-60	3.24E-03	2.90E-10		1.73E-14	1.36E-07	1.36E-07	10.09%
13	2	Subsurface	**Totals**		**8.71E-07**	**3.41E-07**	**9.70E-10**	**1.36E-07**	**1.35E-06**	
13	2	Subsurface	**Percent**		**64.58%**	**25.28%**	**0.07%**	**10.07%**		
13	3	Subsurface	Beryllium	6.15E-01	3.28E-06	3.21E-05	4.31E-10		3.54E-05	94.14%
13	3	Subsurface	Cadmium	2.11E+00	9.93E-07	3.89E-07	1.11E-09		1.38E-06	3.68%
13	3	Subsurface	Cobalt-60	1.95E-02	1.74E-09		1.04E-13	8.17E-07	8.19E-07	2.18%
13	3	Subsurface	**Totals**		**4.28E-06**	**3.25E-05**	**1.54E-09**	**8.17E-07**	**3.76E-05**	
13	3	Subsurface	**Percent**		**11.37%**	**86.45%**	**0.00%**	**2.17%**		
13	4	Subsurface	Cobalt-60	8.06E-02	7.21E-09		4.30E-13	3.38E-06	3.38E-06	39.43%
13	4	Subsurface	Neptunium-237	1.24E-01	4.46E-08		3.27E-10	3.34E-07	3.78E-07	4.41%
13	4	Subsurface	PCB, Total	3.10E-01	7.70E-07	1.05E-06	8.72E-08		1.91E-06	22.27%
13	4	Subsurface	Uranium-235	1.05E-01	3.80E-08		1.58E-10	1.93E-07	2.31E-07	2.69%
13	4	Subsurface	Uranium-238	3.14E+00	1.46E-06		4.38E-09	1.21E-06	2.68E-06	31.21%
13	4	Subsurface	**Totals**		**2.32E-06**	**1.05E-06**	**9.21E-08**	**5.11E-06**	**8.58E-06**	
13	4	Subsurface	**Percent**		**27.07%**	**12.29%**	**1.07%**	**59.57%**		
13	5	Subsurface	Cadmium	2.36E+00	1.11E-06	4.35E-07	1.24E-09		1.55E-06	8.92%
13	5	Subsurface	Cesium-137	3.97E-01	3.82E-08		7.05E-13	3.41E-06	3.45E-06	19.86%
13	5	Subsurface	Chromium	1.20E+02			2.95E-06		2.95E-06	17.00%
13	5	Subsurface	Cobalt-60	5.74E-03	5.14E-10		3.07E-14	2.41E-07	2.41E-07	1.39%
13	5	Subsurface	Neptunium-237	7.52E-02	2.70E-08		1.99E-10	2.02E-07	2.30E-07	1.32%
13	5	Subsurface	Nickel	1.01E+02			7.67E-09		7.67E-09	0.04%
13	5	Subsurface	PCB, Total	9.20E-01	2.28E-06	3.13E-06	2.59E-07		5.67E-06	32.70%
13	5	Subsurface	Total PAH	6.65E-02	6.02E-07	7.67E-07	1.27E-09		1.37E-06	7.90%
13	5	Subsurface	Uranium-238	2.21E+00	1.03E-06		3.08E-09	8.52E-07	1.89E-06	10.87%
13	5	Subsurface	**Totals**		**5.09E-06**	**4.33E-06**	**3.22E-06**	**4.70E-06**	**1.74E-05**	
13	5	Subsurface	**Percent**		**29.36%**	**24.97%**	**18.57%**	**27.10%**		
13	6	Subsurface	Beryllium	5.72E-01	3.05E-06	2.99E-05	4.01E-10		3.29E-05	55.52%
13	6	Subsurface	Cadmium	3.94E+00	1.86E-06	7.28E-07	2.07E-09		2.59E-06	4.37%
13	6	Subsurface	Cesium-137	2.33E-01	2.24E-08		4.14E-13	2.00E-06	2.02E-06	3.41%
13	6	Subsurface	Cobalt-60	8.48E-03	7.59E-10		4.53E-14	3.55E-07	3.56E-07	0.60%
13	6	Subsurface	Neptunium-237	6.52E-02	2.34E-08		1.72E-10	1.75E-07	1.99E-07	0.34%
13	6	Subsurface	PCB, Total	2.63E-01	6.53E-07	8.95E-07	7.40E-08		1.62E-06	2.73%
13	6	Subsurface	Total PAH	8.00E-01	7.25E-06	9.23E-06	1.53E-08		1.65E-05	27.80%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
13	6	Subsurface	Uranium-238	3.63E+00	1.69E-06		5.07E-09	1.40E-06	3.10E-06	5.22%
13	6	Subsurface	**Totals**		**1.46E-05**	**4.07E-05**	**9.70E-08**	**3.93E-06**	**5.93E-05**	
13	6	Subsurface	**Percent**		**24.54%**	**68.67%**	**0.16%**	**6.63%**		
13	7	Subsurface	PCB, Total	5.50E-01	1.37E-06	1.87E-06	1.55E-07		3.39E-06	45.21%
13	7	Subsurface	Uranium-238	4.82E+00	2.25E-06		6.72E-09	1.86E-06	4.11E-06	54.79%
13	7	Subsurface	**Totals**		**3.61E-06**	**1.87E-06**	**1.61E-07**	**1.86E-06**	**7.50E-06**	
13	7	Subsurface	**Percent**		**48.15%**	**24.95%**	**2.15%**	**24.75%**		
13	9	Subsurface	Cesium-137	3.04E-01	2.92E-08		5.40E-13	2.61E-06	2.64E-06	28.47%
13	9	Subsurface	Neptunium-237	6.84E-01	2.46E-07		1.81E-09	1.84E-06	2.09E-06	22.53%
13	9	Subsurface	Uranium-235	2.22E-01	8.03E-08		3.35E-10	4.07E-07	4.88E-07	5.27%
13	9	Subsurface	Uranium-238	4.75E+00	2.22E-06		6.63E-09	1.83E-06	4.05E-06	43.74%
13	9	Subsurface	**Totals**		**2.57E-06**		**8.77E-09**	**6.69E-06**	**9.27E-06**	
13	9	Subsurface	**Percent**		**27.75%**		**0.09%**	**72.16%**		
13	10	Subsurface	Cobalt-60	1.49E-02	1.33E-09		7.96E-14	6.24E-07	6.26E-07	100.00%
13	10	Subsurface	**Totals**		**1.33E-09**		**7.96E-14**	**6.24E-07**	**6.26E-07**	
13	10	Subsurface	**Percent**		**0.21%**		**0.00%**	**99.79%**		
13	11	Subsurface	Cobalt-60	1.30E-02	1.16E-09		6.94E-14	5.45E-07	5.46E-07	100.00%
13	11	Subsurface	**Totals**		**1.16E-09**		**6.94E-14**	**5.45E-07**	**5.46E-07**	
13	11	Subsurface	**Percent**		**0.21%**		**0.00%**	**99.79%**		
13	12	Subsurface	Beryllium	6.25E-01	3.34E-06	3.26E-05	4.38E-10		3.60E-05	85.64%
13	12	Subsurface	Cadmium	2.59E+00	1.22E-06	4.79E-07	1.36E-09		1.70E-06	4.06%
13	12	Subsurface	PCB, Total	7.02E-01	1.74E-06	2.39E-06	1.97E-07		4.33E-06	10.30%
13	12	Subsurface	**Totals**		**6.30E-06**	**3.55E-05**	**1.99E-07**		**4.20E-05**	
13	12	Subsurface	**Percent**		**15.00%**	**84.53%**	**0.47%**			
13	13	Subsurface	Cobalt-60	2.04E-02	1.83E-09		1.09E-13	8.55E-07	8.57E-07	100.00%
13	13	Subsurface	**Totals**		**1.83E-09**		**1.09E-13**	**8.55E-07**	**8.57E-07**	
13	13	Subsurface	**Percent**		**0.21%**		**0.00%**	**99.79%**		
13	14	Subsurface	Uranium-235	2.03E-01	7.35E-08		3.06E-10	3.72E-07	4.46E-07	10.50%
13	14	Subsurface	Uranium-238	4.46E+00	2.08E-06		6.22E-09	1.72E-06	3.81E-06	89.50%
13	14	Subsurface	**Totals**		**2.15E-06**		**6.53E-09**	**2.09E-06**	**4.25E-06**	
13	14	Subsurface	**Percent**		**50.66%**		**0.15%**	**49.19%**		
14	1	Subsurface	Americium-241	1.06E+00	5.11E-07		4.45E-09	9.89E-08	6.15E-07	0.71%
14	1	Subsurface	Arsenic	1.13E+01	2.09E-05	6.15E-06	1.42E-08		2.71E-05	31.36%
14	1	Subsurface	Beryllium	6.84E-01	3.65E-06	3.57E-05	4.79E-10		3.94E-05	45.55%
14	1	Subsurface	Chromium	6.56E+01			1.61E-06		1.61E-06	1.86%
14	1	Subsurface	Cobalt-60	2.42E-02	2.17E-09		1.29E-13	1.01E-06	1.02E-06	1.18%
14	1	Subsurface	Neptunium-237	2.64E-01	9.49E-08		6.97E-10	7.10E-07	8.06E-07	0.93%
14	1	Subsurface	Nickel	7.40E+02			5.61E-08		5.61E-08	0.06%
14	1	Subsurface	PCB, Total	5.00E-01	1.24E-06	1.70E-06	1.41E-07		3.08E-06	3.57%
14	1	Subsurface	Technetium-99	4.06E+02	6.90E-06		8.54E-10	1.12E-07	7.02E-06	8.12%
14	1	Subsurface	Uranium-235	1.99E-01	7.20E-08		3.00E-10	3.65E-07	4.37E-07	0.51%
14	1	Subsurface	Uranium-238	6.24E+00	2.91E-06		8.70E-09	2.40E-06	5.32E-06	6.15%
14	1	Subsurface	**Totals**		**3.63E-05**	**4.36E-05**	**1.84E-06**	**4.70E-06**	**8.65E-05**	
14	1	Subsurface	**Percent**		**42.02%**	**50.41%**	**2.12%**	**5.44%**		
14	2	Subsurface	Arsenic	1.47E+01	2.74E-05	8.05E-06	1.85E-08		3.55E-05	15.94%
14	2	Subsurface	Beryllium	6.75E-01	3.60E-06	3.53E-05	4.73E-10		3.89E-05	17.46%
14	2	Subsurface	Cadmium	1.75E+00	8.25E-07	3.23E-07	9.20E-10		1.15E-06	0.52%
14	2	Subsurface	Chromium	7.24E+01			1.77E-06		1.77E-06	0.80%
14	2	Subsurface	Neptunium-237	1.70E+00	6.11E-07		4.48E-09	4.57E-06	5.18E-06	2.33%
14	2	Subsurface	Nickel	8.41E+02			6.38E-08		6.38E-08	0.03%
14	2	Subsurface	PCB, Total	5.00E+00	1.24E-05	1.70E-05	1.41E-06		3.08E-05	13.86%
14	2	Subsurface	Thorium-230	7.70E+00	3.45E-06		3.27E-08	2.13E-08	3.51E-06	1.58%
14	2	Subsurface	Total PAH	2.31E-01	2.09E-06	2.66E-06	4.42E-09		4.76E-06	2.14%
14	2	Subsurface	Uranium-234	4.81E+01	1.69E-05		8.18E-08	4.09E-08	1.70E-05	7.64%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
14	2	Subsurface	Uranium-235	3.41E+00	1.23E-06		5.14E-09	6.26E-06	7.50E-06	3.37%
14	2	Subsurface	Uranium-238	8.96E+01	4.18E-05		1.25E-07	3.45E-05	7.64E-05	34.35%
14	2	Subsurface	**Totals**		**1.10E-04**	**6.33E-05**	**3.52E-06**	**4.54E-05**	**2.23E-04**	
14	2	Subsurface	**Percent**		**49.56%**	**28.45%**	**1.58%**	**20.41%**		
14	3	Subsurface	Arsenic	1.91E+01	3.55E-05	1.04E-05	2.40E-08		4.59E-05	19.72%
14	3	Subsurface	Beryllium	2.07E+00	1.11E-05	1.08E-04	1.45E-09		1.19E-04	51.26%
14	3	Subsurface	Chromium	7.01E+01			1.72E-06		1.72E-06	0.74%
14	3	Subsurface	Cobalt	1.63E+01			4.27E-08		4.27E-08	0.02%
14	3	Subsurface	Neptunium-237	1.61E-01	5.79E-08		4.25E-10	4.33E-07	4.91E-07	0.21%
14	3	Subsurface	Nickel	6.64E+02			5.04E-08		5.04E-08	0.02%
14	3	Subsurface	PCB, Total	8.75E+00	2.17E-05	2.98E-05	2.46E-06		5.40E-05	23.18%
14	3	Subsurface	Uranium-234	4.43E+00	1.55E-06		7.53E-09	3.77E-09	1.56E-06	0.67%
14	3	Subsurface	Uranium-235	2.46E-01	8.90E-08		3.71E-10	4.51E-07	5.41E-07	0.23%
14	3	Subsurface	Uranium-238	1.08E+01	5.03E-06		1.51E-08	4.16E-06	9.21E-06	3.96%
14	3	Subsurface	**Totals**		**7.50E-05**	**1.48E-04**	**4.32E-06**	**5.05E-06**	**2.33E-04**	
14	3	Subsurface	**Percent**		**32.21%**	**63.77%**	**1.86%**	**2.17%**		
14	4	Subsurface	Arsenic	1.24E+01	2.32E-05	6.80E-06	1.57E-08		3.00E-05	12.06%
14	4	Subsurface	Chromium	5.66E+01			1.39E-06		1.39E-06	0.56%
14	4	Subsurface	Cobalt	1.46E+01			3.84E-08		3.84E-08	0.02%
14	4	Subsurface	Neptunium-237	2.03E+00	7.30E-07		5.36E-09	5.46E-06	6.20E-06	2.49%
14	4	Subsurface	Nickel	7.31E+02			5.55E-08		5.55E-08	0.02%
14	4	Subsurface	PCB, Total	8.28E+00	2.06E-05	2.82E-05	2.33E-06		5.11E-05	20.55%
14	4	Subsurface	Thorium-230	5.43E+00	2.43E-06		2.31E-08	1.50E-08	2.47E-06	0.99%
14	4	Subsurface	Total PAH	1.89E-01	1.71E-06	2.18E-06	3.61E-09		3.90E-06	1.57%
14	4	Subsurface	Uranium-234	8.61E+01	3.02E-05		1.46E-07	7.33E-08	3.04E-05	12.24%
14	4	Subsurface	Uranium-235	6.10E+00	2.21E-06		9.20E-09	1.12E-05	1.34E-05	5.40%
14	4	Subsurface	Uranium-238	1.29E+02	5.99E-05		1.79E-07	4.95E-05	1.10E-04	44.09%
14	4	Subsurface	**Totals**		**1.41E-04**	**3.72E-05**	**4.19E-06**	**6.62E-05**	**2.49E-04**	
14	4	Subsurface	**Percent**		**56.70%**	**14.96%**	**1.69%**	**26.66%**		
14	5	Subsurface	Arsenic	1.27E+01	2.36E-05	6.92E-06	1.59E-08		3.05E-05	13.76%
14	5	Subsurface	Beryllium	7.93E-01	4.23E-06	4.14E-05	5.56E-10		4.57E-05	20.61%
14	5	Subsurface	Cadmium	2.59E+00	1.22E-06	4.78E-07	1.36E-09		1.70E-06	0.77%
14	5	Subsurface	Chromium	4.70E+01			1.15E-06		1.15E-06	0.52%
14	5	Subsurface	Cobalt	1.11E+01			2.91E-08		2.91E-08	0.01%
14	5	Subsurface	Neptunium-237	1.74E+00	6.26E-07		4.59E-09	4.68E-06	5.31E-06	2.40%
14	5	Subsurface	Nickel	4.63E+02			3.51E-08		3.51E-08	0.02%
14	5	Subsurface	PCB, Total	7.64E+00	1.90E-05	2.60E-05	2.15E-06		4.71E-05	21.26%
14	5	Subsurface	Technetium-99	7.80E+01	1.33E-06		1.64E-10	2.14E-08	1.35E-06	0.61%
14	5	Subsurface	Thorium-230	1.09E+01	4.88E-06		4.63E-08	3.01E-08	4.96E-06	2.24%
14	5	Subsurface	Total PAH	9.48E-02	8.59E-07	1.09E-06	1.81E-09		1.95E-06	0.88%
14	5	Subsurface	Uranium-234	4.03E+01	1.41E-05		6.85E-08	3.43E-08	1.42E-05	6.42%
14	5	Subsurface	Uranium-235	2.57E+00	9.31E-07		3.88E-09	4.72E-06	5.65E-06	2.55%
14	5	Subsurface	Uranium-238	7.26E+01	3.38E-05		1.01E-07	2.80E-05	6.19E-05	27.95%
14	5	Subsurface	**Totals**		**1.05E-04**	**7.59E-05**	**3.61E-06**	**3.75E-05**	**2.22E-04**	
14	5	Subsurface	**Percent**		**47.20%**	**34.27%**	**1.63%**	**16.90%**		
14	6	Subsurface	Arsenic	1.05E+01	1.95E-05	5.74E-06	1.32E-08		2.53E-05	20.78%
14	6	Subsurface	Cadmium	6.57E-01	3.10E-07	1.21E-07	3.45E-10		4.32E-07	0.35%
14	6	Subsurface	Chromium	4.39E+02			1.08E-05		1.08E-05	8.85%
14	6	Subsurface	Neptunium-237	2.04E+00	7.33E-07		5.38E-09	5.48E-06	6.22E-06	5.11%
14	6	Subsurface	Nickel	9.63E+02			7.31E-08		7.31E-08	0.06%
14	6	Subsurface	PCB, Total	5.00E+00	1.24E-05	1.70E-05	1.41E-06		3.08E-05	25.32%
14	6	Subsurface	Uranium-234	2.59E+01	9.09E-06		4.41E-08	2.21E-08	9.16E-06	7.52%
14	6	Subsurface	Uranium-235	1.79E+00	6.47E-07		2.69E-09	3.28E-06	3.93E-06	3.23%
14	6	Subsurface	Uranium-238	4.11E+01	1.92E-05		5.73E-08	1.58E-05	3.51E-05	28.78%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
14	6	Subsurface	**Totals**		**6.19E-05**	**2.29E-05**	**1.24E-05**	**2.46E-05**	**1.22E-04**	
14	6	Subsurface	**Percent**		**50.83%**	**18.79%**	**10.17%**	**20.21%**		
14	7	Subsurface	Arsenic	1.12E+01	2.09E-05	6.14E-06	1.41E-08		2.71E-05	26.97%
14	7	Subsurface	Cadmium	2.11E+00	9.95E-07	3.90E-07	1.11E-09		1.39E-06	1.38%
14	7	Subsurface	Chromium	6.46E+01			1.58E-06		1.58E-06	1.58%
14	7	Subsurface	Neptunium-237	1.16E+00	4.18E-07		3.07E-09	3.12E-06	3.54E-06	3.53%
14	7	Subsurface	Nickel	1.22E+03			9.28E-08		9.28E-08	0.09%
14	7	Subsurface	PCB, Total	7.60E+00	1.89E-05	2.59E-05	2.14E-06		4.69E-05	46.74%
14	7	Subsurface	Total PAH	4.88E-02	4.42E-07	5.63E-07	9.33E-10		1.01E-06	1.00%
14	7	Subsurface	Uranium-234	9.86E+00	3.46E-06		1.68E-08	8.40E-09	3.48E-06	3.47%
14	7	Subsurface	Uranium-235	7.29E-01	2.64E-07		1.10E-09	1.34E-06	1.60E-06	1.60%
14	7	Subsurface	Uranium-238	1.60E+01	7.48E-06		2.24E-08	6.18E-06	1.37E-05	13.63%
14	7	Subsurface	**Totals**		**5.28E-05**	**3.30E-05**	**3.87E-06**	**1.06E-05**	**1.00E-04**	
14	7	Subsurface	**Percent**		**52.67%**	**32.86%**	**3.86%**	**10.61%**		
14	8	Subsurface	Arsenic	1.22E+01	2.27E-05	6.66E-06	1.53E-08		2.94E-05	43.07%
14	8	Subsurface	Chromium	5.14E+01			1.26E-06		1.26E-06	1.85%
14	8	Subsurface	Neptunium-237	6.77E-01	2.43E-07		1.79E-09	1.82E-06	2.07E-06	3.03%
14	8	Subsurface	Nickel	6.73E+02			5.10E-08		5.10E-08	0.07%
14	8	Subsurface	PCB, Total	5.00E+00	1.24E-05	1.70E-05	1.41E-06		3.08E-05	45.24%
14	8	Subsurface	Total PAH	4.13E-02	3.74E-07	4.76E-07	7.90E-10		8.51E-07	1.25%
14	8	Subsurface	Uranium-235	1.61E-01	5.83E-08		2.43E-10	2.95E-07	3.54E-07	0.52%
14	8	Subsurface	Uranium-238	3.97E+00	1.85E-06		5.54E-09	1.53E-06	3.38E-06	4.97%
14	8	Subsurface	**Totals**		**3.76E-05**	**2.42E-05**	**2.74E-06**	**3.65E-06**	**6.82E-05**	
14	8	Subsurface	**Percent**		**55.19%**	**35.44%**	**4.02%**	**5.35%**		
14	9	Subsurface	Arsenic	1.39E+01	2.58E-05	7.59E-06	1.75E-08		3.35E-05	2.14%
14	9	Subsurface	Cadmium	9.40E-01	4.43E-07	1.74E-07	4.94E-10		6.18E-07	0.04%
14	9	Subsurface	Cesium-137	4.53E-01	4.35E-08		8.04E-13	3.89E-06	3.93E-06	0.25%
14	9	Subsurface	Chromium	4.64E+01			1.14E-06		1.14E-06	0.07%
14	9	Subsurface	Neptunium-237	1.09E+01	3.93E-06		2.89E-08	2.94E-05	3.34E-05	2.13%
14	9	Subsurface	Nickel	9.43E+02			7.16E-08		7.16E-08	0.00%
14	9	Subsurface	PCB, Total	6.84E+00	1.70E-05	2.33E-05	1.92E-06		4.22E-05	2.70%
14	9	Subsurface	Technetium-99	1.96E+02	3.33E-06		4.12E-10	5.39E-08	3.39E-06	0.22%
14	9	Subsurface	Total PAH	4.87E-01	4.42E-06	5.62E-06	9.32E-09		1.00E-05	0.64%
14	9	Subsurface	Uranium-234	8.32E+02	2.92E-04		1.42E-06	7.09E-07	2.94E-04	18.78%
14	9	Subsurface	Uranium-235	5.46E+01	1.97E-05		8.22E-08	1.00E-04	1.20E-04	7.66%
14	9	Subsurface	Uranium-238	1.20E+03	5.59E-04		1.67E-06	4.62E-04	1.02E-03	65.37%
14	9	Subsurface	**Totals**		**9.26E-04**	**3.67E-05**	**6.36E-06**	**5.96E-04**	**1.57E-03**	
14	9	Subsurface	**Percent**		**59.15%**	**2.34%**	**0.41%**	**38.10%**		
14	10	Subsurface	Arsenic	1.15E+01	2.14E-05	6.30E-06	1.45E-08		2.77E-05	21.40%
14	10	Subsurface	Chromium	4.47E+01			1.10E-06		1.10E-06	0.85%
14	10	Subsurface	Neptunium-237	2.05E+00	7.35E-07		5.40E-09	5.50E-06	6.24E-06	4.81%
14	10	Subsurface	Nickel	5.80E+02			4.40E-08		4.40E-08	0.03%
14	10	Subsurface	PCB, Total	9.32E+00	2.31E-05	3.17E-05	2.62E-06		5.75E-05	44.32%
14	10	Subsurface	Total PAH	2.10E-01	1.90E-06	2.42E-06	4.02E-09		4.33E-06	3.34%
14	10	Subsurface	Uranium-234	1.92E+01	6.73E-06		3.27E-08	1.63E-08	6.78E-06	5.23%
14	10	Subsurface	Uranium-235	1.40E+00	5.06E-07		2.11E-09	2.57E-06	3.07E-06	2.37%
14	10	Subsurface	Uranium-238	2.68E+01	1.25E-05		3.74E-08	1.03E-05	2.29E-05	17.65%
14	10	Subsurface	**Totals**		**6.70E-05**	**4.04E-05**	**3.86E-06**	**1.84E-05**	**1.30E-04**	
14	10	Subsurface	**Percent**		**51.64%**	**31.18%**	**2.98%**	**14.21%**		
15	1	Subsurface	Arsenic	1.33E+01	2.47E-05	7.25E-06	1.67E-08		3.20E-05	52.74%
15	1	Subsurface	Chromium	5.61E+01			1.38E-06		1.38E-06	2.27%
15	1	Subsurface	Nickel	1.33E+02			1.01E-08		1.01E-08	0.02%
15	1	Subsurface	PCB, Total	7.80E-02	1.94E-07	2.65E-07	2.19E-08		4.81E-07	0.79%
15	1	Subsurface	Technetium-99	1.06E+02	1.81E-06		2.24E-10	2.92E-08	1.84E-06	3.03%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
15	1	Subsurface	Total PAH	1.16E+00	1.05E-05	1.33E-05	2.21E-08		2.38E-05	39.33%
15	1	Subsurface	Uranium-238	1.30E+00	6.04E-07		1.81E-09	4.99E-07	1.10E-06	1.82%
15	1	Subsurface	**Totals**		**3.78E-05**	**2.09E-05**	**1.45E-06**	**5.28E-07**	**6.06E-05**	
15	1	Subsurface	**Percent**		**62.33%**	**34.41%**	**2.39%**	**0.87%**		
15	2	Subsurface	Arsenic	1.63E+01	3.03E-05	8.89E-06	2.05E-08		3.92E-05	38.29%
15	2	Subsurface	Cadmium	1.58E+00	7.45E-07	2.92E-07	8.30E-10		1.04E-06	1.01%
15	2	Subsurface	Chromium	5.90E+01			1.45E-06		1.45E-06	1.41%
15	2	Subsurface	Neptunium-237	5.56E-01	2.00E-07		1.47E-09	1.50E-06	1.70E-06	1.66%
15	2	Subsurface	Nickel	3.75E+02			2.84E-08		2.84E-08	0.03%
15	2	Subsurface	PCB, Total	3.30E-01	8.19E-07	1.12E-06	9.28E-08		2.04E-06	1.99%
15	2	Subsurface	Total PAH	2.11E+00	1.91E-05	2.43E-05	4.03E-08		4.35E-05	42.46%
15	2	Subsurface	Uranium-234	6.51E+00	2.28E-06		1.11E-08	5.54E-09	2.30E-06	2.25%
15	2	Subsurface	Uranium-235	3.80E-01	1.38E-07		5.73E-10	6.97E-07	8.35E-07	0.82%
15	2	Subsurface	Uranium-238	1.21E+01	5.64E-06		1.69E-08	4.66E-06	1.03E-05	10.08%
15	2	Subsurface	**Totals**		**5.92E-05**	**3.46E-05**	**1.66E-06**	**6.86E-06**	**1.02E-04**	
15	2	Subsurface	**Percent**		**57.85%**	**33.83%**	**1.62%**	**6.70%**		
15	3	Subsurface	Arsenic	3.65E+01	6.80E-05	2.00E-05	4.60E-08		8.80E-05	25.68%
15	3	Subsurface	Beryllium	5.63E-01	3.00E-06	2.94E-05	3.95E-10		3.24E-05	9.46%
15	3	Subsurface	Cadmium	7.30E+00	3.45E-06	1.35E-06	3.84E-09		4.80E-06	1.40%
15	3	Subsurface	Chromium	8.13E+01			1.99E-06		1.99E-06	0.58%
15	3	Subsurface	Cobalt	2.37E+01			6.23E-08		6.23E-08	0.02%
15	3	Subsurface	Neptunium-237	4.06E+00	1.46E-06		1.07E-08	1.09E-05	1.24E-05	3.62%
15	3	Subsurface	Nickel	7.57E+02			5.74E-08		5.74E-08	0.02%
15	3	Subsurface	PCB, Total	1.00E+01	2.48E-05	3.40E-05	2.81E-06		6.17E-05	18.00%
15	3	Subsurface	Technetium-99	2.08E+02	3.54E-06		4.38E-10	5.73E-08	3.60E-06	1.05%
15	3	Subsurface	Thorium-230	4.61E+00	2.07E-06		1.96E-08	1.28E-08	2.10E-06	0.61%
15	3	Subsurface	Total PAH	9.85E-01	8.93E-06	1.14E-05	1.88E-08		2.03E-05	5.93%
15	3	Subsurface	Uranium-234	6.91E+01	2.42E-05		1.17E-07	5.88E-08	2.44E-05	7.12%
15	3	Subsurface	Uranium-235	4.21E+00	1.52E-06		6.34E-09	7.72E-06	9.25E-06	2.70%
15	3	Subsurface	Uranium-238	9.57E+01	4.46E-05		1.33E-07	3.68E-05	8.16E-05	23.81%
15	3	Subsurface	**Totals**		**1.86E-04**	**9.61E-05**	**5.28E-06**	**5.56E-05**	**3.43E-04**	
15	3	Subsurface	**Percent**		**54.17%**	**28.06%**	**1.54%**	**16.23%**		
15	4	Subsurface	Arsenic	3.46E+01	6.45E-05	1.89E-05	4.36E-08		8.35E-05	28.28%
15	4	Subsurface	Cadmium	1.57E+00	7.41E-07	2.90E-07	8.25E-10		1.03E-06	0.35%
15	4	Subsurface	Chromium	9.79E+01			2.40E-06		2.40E-06	0.81%
15	4	Subsurface	Neptunium-237	4.31E-01	1.55E-07		1.14E-09	1.16E-06	1.32E-06	0.45%
15	4	Subsurface	Nickel	1.37E+03			1.04E-07		1.04E-07	0.04%
15	4	Subsurface	PCB, Total	2.67E+01	6.63E-05	9.09E-05	7.52E-06		1.65E-04	55.84%
15	4	Subsurface	Total PAH	1.47E+00	1.33E-05	1.69E-05	2.80E-08		3.02E-05	10.24%
15	4	Subsurface	Uranium-234	6.26E+00	2.20E-06		1.06E-08	5.33E-09	2.21E-06	0.75%
15	4	Subsurface	Uranium-235	2.22E-01	8.03E-08		3.35E-10	4.07E-07	4.88E-07	0.17%
15	4	Subsurface	Uranium-238	1.06E+01	4.96E-06		1.48E-08	4.09E-06	9.07E-06	3.07%
15	4	Subsurface	**Totals**		**1.52E-04**	**1.27E-04**	**1.01E-05**	**5.67E-06**	**2.95E-04**	
15	4	Subsurface	**Percent**		**51.59%**	**43.06%**	**3.43%**	**1.92%**		
15	5	Subsurface	Arsenic	1.33E+01	2.47E-05	7.27E-06	1.67E-08		3.20E-05	15.42%
15	5	Subsurface	Cadmium	9.30E-01	4.39E-07	1.72E-07	4.89E-10		6.11E-07	0.29%
15	5	Subsurface	Chromium	6.58E+01			1.61E-06		1.61E-06	0.78%
15	5	Subsurface	Neptunium-237	5.30E-01	1.91E-07		1.40E-09	1.43E-06	1.62E-06	0.78%
15	5	Subsurface	Nickel	3.48E+02			2.64E-08		2.64E-08	0.01%
15	5	Subsurface	PCB, Total	2.50E+01	6.20E-05	8.50E-05	7.03E-06		1.54E-04	74.15%
15	5	Subsurface	Technetium-99	1.07E+02	1.82E-06		2.25E-10	2.94E-08	1.85E-06	0.89%
15	5	Subsurface	Total PAH	3.31E-01	3.00E-06	3.82E-06	6.33E-09		6.82E-06	3.28%
15	5	Subsurface	Uranium-234	3.90E+00	1.37E-06		6.64E-09	3.32E-09	1.38E-06	0.66%
15	5	Subsurface	Uranium-235	3.62E-01	1.31E-07		5.45E-10	6.64E-07	7.96E-07	0.38%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
15	5	Subsurface	Uranium-238	8.14E+00	3.80E-06		1.14E-08	3.14E-06	6.94E-06	3.34%
15	5	Subsurface	**Totals**		**9.75E-05**	**9.63E-05**	**8.71E-06**	**5.26E-06**	**2.08E-04**	
15	5	Subsurface	**Percent**		**46.93%**	**46.34%**	**4.19%**	**2.53%**		
15	6	Subsurface	Arsenic	1.20E+01	2.24E-05	6.58E-06	1.52E-08		2.90E-05	26.31%
15	6	Subsurface	Cadmium	1.16E+00	5.48E-07	2.14E-07	6.10E-10		7.63E-07	0.69%
15	6	Subsurface	Chromium	5.80E+01			1.42E-06		1.42E-06	1.29%
15	6	Subsurface	Cobalt	1.13E+01			2.97E-08		2.97E-08	0.03%
15	6	Subsurface	Neptunium-237	4.93E-01	1.77E-07		1.30E-09	1.33E-06	1.50E-06	1.37%
15	6	Subsurface	Nickel	3.24E+02			2.46E-08		2.46E-08	0.02%
15	6	Subsurface	PCB, Total	6.17E+00	1.53E-05	2.10E-05	1.73E-06		3.80E-05	34.50%
15	6	Subsurface	Total PAH	1.25E+00	1.13E-05	1.44E-05	2.39E-08		2.57E-05	23.36%
15	6	Subsurface	Uranium-234	6.91E+00	2.43E-06		1.18E-08	5.89E-09	2.44E-06	2.22%
15	6	Subsurface	Uranium-235	4.48E-01	1.62E-07		6.75E-10	8.22E-07	9.85E-07	0.89%
15	6	Subsurface	Uranium-238	1.21E+01	5.62E-06		1.68E-08	4.64E-06	1.03E-05	9.32%
15	6	Subsurface	**Totals**		**5.80E-05**	**4.22E-05**	**3.28E-06**	**6.80E-06**	**1.10E-04**	
15	6	Subsurface	**Percent**		**52.58%**	**38.27%**	**2.98%**	**6.17%**		
15	7	Subsurface	Arsenic	1.61E+01	3.00E-05	8.82E-06	2.03E-08		3.89E-05	15.73%
15	7	Subsurface	Beryllium	6.61E-01	3.53E-06	3.45E-05	4.63E-10		3.81E-05	15.40%
15	7	Subsurface	Cadmium	6.52E-01	3.08E-07	1.20E-07	3.43E-10		4.28E-07	0.17%
15	7	Subsurface	Chromium	6.54E+01			1.60E-06		1.60E-06	0.65%
15	7	Subsurface	Neptunium-237	1.71E-01	6.15E-08		4.52E-10	4.60E-07	5.22E-07	0.21%
15	7	Subsurface	Nickel	5.59E+02			4.24E-08		4.24E-08	0.02%
15	7	Subsurface	PCB, Total	2.55E+01	6.34E-05	8.69E-05	7.18E-06		1.58E-04	63.71%
15	7	Subsurface	Total PAH	1.24E-01	1.12E-06	1.43E-06	2.37E-09		2.56E-06	1.03%
15	7	Subsurface	Uranium-234	4.27E+00	1.50E-06		7.27E-09	3.64E-09	1.51E-06	0.61%
15	7	Subsurface	Uranium-235	2.96E-01	1.07E-07		4.46E-10	5.43E-07	6.51E-07	0.26%
15	7	Subsurface	Uranium-238	6.39E+00	2.98E-06		8.92E-09	2.46E-06	5.45E-06	2.20%
15	7	Subsurface	**Totals**		**1.03E-04**	**1.32E-04**	**8.87E-06**	**3.47E-06**	**2.47E-04**	
15	7	Subsurface	**Percent**		**41.68%**	**53.32%**	**3.59%**	**1.40%**		
15	8	Subsurface	Arsenic	1.14E+01	2.13E-05	6.25E-06	1.44E-08		2.75E-05	39.02%
15	8	Subsurface	Chromium	7.53E+01			1.85E-06		1.85E-06	2.62%
15	8	Subsurface	Neptunium-237	2.83E-01	1.02E-07		7.47E-10	7.61E-07	8.64E-07	1.22%
15	8	Subsurface	Nickel	1.82E+02			1.38E-08		1.38E-08	0.02%
15	8	Subsurface	PCB, Total	4.90E+00	1.22E-05	1.67E-05	1.38E-06		3.02E-05	42.84%
15	8	Subsurface	Total PAH	2.80E-01	2.54E-06	3.23E-06	5.35E-09		5.77E-06	8.18%
15	8	Subsurface	Uranium-235	2.02E-01	7.31E-08		3.04E-10	3.71E-07	4.44E-07	0.63%
15	8	Subsurface	Uranium-238	4.52E+00	2.11E-06		6.31E-09	1.74E-06	3.86E-06	5.47%
15	8	Subsurface	**Totals**		**3.82E-05**	**2.62E-05**	**3.27E-06**	**2.87E-06**	**7.05E-05**	
15	8	Subsurface	**Percent**		**54.22%**	**37.07%**	**4.63%**	**4.07%**		
15	9	Subsurface	Arsenic	1.27E+01	2.36E-05	6.92E-06	1.59E-08		3.05E-05	70.59%
15	9	Subsurface	Chromium	8.92E+01			2.19E-06		2.19E-06	5.07%
15	9	Subsurface	Neptunium-237	9.93E-02	3.57E-08		2.62E-10	2.67E-07	3.03E-07	0.70%
15	9	Subsurface	Nickel	1.49E+02			1.13E-08		1.13E-08	0.03%
15	9	Subsurface	PCB, Total	3.30E-01	8.19E-07	1.12E-06	9.28E-08		2.04E-06	4.71%
15	9	Subsurface	Total PAH	1.85E-01	1.68E-06	2.13E-06	3.54E-09		3.81E-06	8.83%
15	9	Subsurface	Uranium-235	1.63E-01	5.90E-08		2.46E-10	2.99E-07	3.58E-07	0.83%
15	9	Subsurface	Uranium-238	4.68E+00	2.18E-06		6.53E-09	1.80E-06	3.99E-06	9.24%
15	9	Subsurface	**Totals**		**2.83E-05**	**1.02E-05**	**2.32E-06**	**2.37E-06**	**4.32E-05**	
15	9	Subsurface	**Percent**		**65.58%**	**23.56%**	**5.37%**	**5.49%**		
15	10	Subsurface	Arsenic	9.74E+00	1.81E-05	5.33E-06	1.23E-08		2.35E-05	87.55%
15	10	Subsurface	Chromium	6.29E+01			1.54E-06		1.54E-06	5.75%
15	10	Subsurface	Nickel	1.60E+02			1.22E-08		1.22E-08	0.05%
15	10	Subsurface	Total PAH	8.65E-02	7.84E-07	9.98E-07	1.65E-09		1.78E-06	6.65%
15	10	Subsurface	**Totals**		**1.89E-05**	**6.33E-06**	**1.57E-06**		**2.68E-05**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
15	10	Subsurface	**Percent**		**70.56%**	**23.59%**	**5.85%**			
16	1	Subsurface	Beryllium	6.21E-01	3.31E-06	3.24E-05	4.35E-10		3.58E-05	76.97%
16	1	Subsurface	Cesium-137	1.10E+00	1.06E-07		1.95E-12	9.44E-06	9.55E-06	20.55%
16	1	Subsurface	Nickel	1.80E+01			1.36E-09		1.36E-09	0.00%
16	1	Subsurface	PCB, Total	9.60E-02	2.38E-07	3.27E-07	2.70E-08		5.92E-07	1.27%
16	1	Subsurface	Total PAH	2.72E-02	2.46E-07	3.14E-07	5.20E-10		5.61E-07	1.21%
16	1	Subsurface	**Totals**		**3.91E-06**	**3.31E-05**	**2.93E-08**	**9.44E-06**	**4.65E-05**	
16	1	Subsurface	**Percent**		**8.41%**	**71.21%**	**0.06%**	**20.32%**		
16	2	Subsurface	Arsenic	8.72E+00	1.62E-05	4.77E-06	1.10E-08		2.10E-05	33.53%
16	2	Subsurface	Beryllium	6.88E-01	3.67E-06	3.59E-05	4.82E-10		3.96E-05	63.21%
16	2	Subsurface	Chromium	5.03E+01			1.23E-06		1.23E-06	1.97%
16	2	Subsurface	Nickel	7.56E+01			5.74E-09		5.74E-09	0.01%
16	2	Subsurface	PCB, Total	1.30E-01	3.23E-07	4.42E-07	3.66E-08		8.02E-07	1.28%
16	2	Subsurface	**Totals**		**2.02E-05**	**4.12E-05**	**1.29E-06**		**6.27E-05**	
16	2	Subsurface	**Percent**		**32.28%**	**65.67%**	**2.06%**			
16	3	Subsurface	Arsenic	8.62E+00	1.60E-05	4.71E-06	1.09E-08		2.08E-05	31.58%
16	3	Subsurface	Beryllium	6.15E-01	3.28E-06	3.21E-05	4.31E-10		3.54E-05	53.83%
16	3	Subsurface	Chromium	4.66E+01			1.14E-06		1.14E-06	1.74%
16	3	Subsurface	Nickel	7.09E+01			5.38E-09		5.38E-09	0.01%
16	3	Subsurface	PCB, Total	1.37E+00	3.40E-06	4.66E-06	3.85E-07		8.45E-06	12.84%
16	3	Subsurface	**Totals**		**2.27E-05**	**4.15E-05**	**1.55E-06**		**6.58E-05**	
16	3	Subsurface	**Percent**		**34.56%**	**63.09%**	**2.35%**			
16	4	Subsurface	Cesium-137	3.66E+01	3.52E-06		6.49E-11	3.14E-04	3.17E-04	46.46%
16	4	Subsurface	Cobalt-60	8.53E-03	7.63E-10		4.56E-14	3.57E-07	3.58E-07	0.05%
16	4	Subsurface	Neptunium-237	7.12E+00	2.56E-06		1.88E-08	1.92E-05	2.17E-05	3.18%
16	4	Subsurface	Nickel	8.94E+01			6.79E-09		6.79E-09	0.00%
16	4	Subsurface	PCB, Total	4.29E-01	1.07E-06	1.46E-06	1.21E-07		2.65E-06	0.39%
16	4	Subsurface	Technetium-99	3.55E+02	6.04E-06		7.47E-10	9.76E-08	6.14E-06	0.90%
16	4	Subsurface	Thorium-230	5.29E+00	2.37E-06		2.25E-08	1.46E-08	2.41E-06	0.35%
16	4	Subsurface	Total PAH	2.05E+00	1.85E-05	2.36E-05	3.91E-08		4.22E-05	6.17%
16	4	Subsurface	Uranium-234	1.19E+02	4.17E-05		2.02E-07	1.01E-07	4.20E-05	6.15%
16	4	Subsurface	Uranium-235	8.23E+00	2.98E-06		1.24E-08	1.51E-05	1.81E-05	2.65%
16	4	Subsurface	Uranium-238	2.70E+02	1.26E-04		3.77E-07	1.04E-04	2.30E-04	33.70%
16	4	Subsurface	**Totals**		**2.05E-04**	**2.51E-05**	**8.00E-07**	**4.53E-04**	**6.83E-04**	
16	4	Subsurface	**Percent**		**29.95%**	**3.67%**	**0.12%**	**66.26%**		
19	1	Subsurface	Arsenic	1.01E+01	1.88E-05	5.52E-06	1.27E-08		2.43E-05	9.54%
19	1	Subsurface	Beryllium	1.40E+00	7.47E-06	7.31E-05	9.81E-10		8.06E-05	31.58%
19	1	Subsurface	Cadmium	5.70E+00	2.69E-06	1.05E-06	3.00E-09		3.74E-06	1.47%
19	1	Subsurface	Cobalt	1.35E+01			3.55E-08		3.55E-08	0.01%
19	1	Subsurface	Nickel	4.38E+02			3.32E-08		3.32E-08	0.01%
19	1	Subsurface	Total PAH	5.23E+00	4.74E-05	6.03E-05	9.99E-08		1.08E-04	42.21%
19	1	Subsurface	Uranium-234	2.77E+01	9.72E-06		4.71E-08	2.36E-08	9.79E-06	3.83%
19	1	Subsurface	Uranium-235	1.30E+00	4.70E-07		1.96E-09	2.39E-06	2.86E-06	1.12%
19	1	Subsurface	Uranium-238	3.06E+01	1.43E-05		4.27E-08	1.18E-05	2.61E-05	10.22%
19	1	Subsurface	**Totals**		**1.01E-04**	**1.40E-04**	**2.77E-07**	**1.42E-05**	**2.55E-04**	
19	1	Subsurface	**Percent**		**39.48%**	**54.85%**	**0.11%**	**5.56%**		
26	1	Subsurface	Arsenic	1.06E+01	1.97E-05	5.78E-06	1.33E-08		2.55E-05	5.41%
26	1	Subsurface	Beryllium	6.51E+00	3.47E-05	3.40E-04	4.56E-09		3.75E-04	79.60%
26	1	Subsurface	Cadmium	2.09E+00	9.83E-07	3.85E-07	1.10E-09		1.37E-06	0.29%
26	1	Subsurface	Cesium-137	1.76E+00	1.69E-07		3.13E-12	1.51E-05	1.53E-05	3.25%
26	1	Subsurface	Cobalt	8.55E+00			2.25E-08		2.25E-08	0.00%
26	1	Subsurface	Cobalt-60	3.99E-03	3.57E-10		2.13E-14	1.67E-07	1.68E-07	0.04%
26	1	Subsurface	Neptunium-237	2.50E-01	8.99E-08		6.60E-10	6.72E-07	7.63E-07	0.16%
26	1	Subsurface	Nickel	9.66E+01			7.33E-09		7.33E-09	0.00%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
26	1	Subsurface	PCB, Total	2.53E+00	6.28E-06	8.61E-06	7.12E-07		1.56E-05	3.32%
26	1	Subsurface	Plutonium-239/240	3.50E+00	2.14E-06		1.74E-08	2.36E-09	2.16E-06	0.46%
26	1	Subsurface	Thorium-230	4.03E+00	1.81E-06		1.71E-08	1.12E-08	1.84E-06	0.39%
26	1	Subsurface	Total PAH	1.74E-01	1.58E-06	2.01E-06	3.33E-09		3.59E-06	0.76%
26	1	Subsurface	Trichloroethene	1.19E-02	4.76E-09	1.16E-08	1.75E-07		1.92E-07	0.04%
26	1	Subsurface	Uranium-234	4.29E+00	1.50E-06		7.29E-09	3.65E-09	1.51E-06	0.32%
26	1	Subsurface	Uranium-235	5.84E-01	2.11E-07		8.80E-10	1.07E-06	1.28E-06	0.27%
26	1	Subsurface	Uranium-238	3.14E+01	1.46E-05		4.37E-08	1.21E-05	2.67E-05	5.68%
26	1	Subsurface	**Totals**		**8.38E-05**	**3.57E-04**	**1.03E-06**	**2.91E-05**	**4.71E-04**	
26	1	Subsurface	**Percent**		**17.80%**	**75.79%**	**0.22%**	**6.19%**		
26	2	Subsurface	Arsenic	1.91E+01	3.56E-05	1.05E-05	2.41E-08		4.61E-05	7.07%
26	2	Subsurface	Beryllium	8.44E+00	4.50E-05	4.41E-04	5.91E-09		4.86E-04	74.50%
26	2	Subsurface	Cadmium	1.55E+00	7.31E-07	2.86E-07	8.15E-10		1.02E-06	0.16%
26	2	Subsurface	Cesium-137	4.86E+00	4.67E-07		8.62E-12	4.17E-05	4.21E-05	6.46%
26	2	Subsurface	Chromium	5.99E+01			1.47E-06		1.47E-06	0.23%
26	2	Subsurface	Cobalt	2.91E+01			7.66E-08		7.66E-08	0.01%
26	2	Subsurface	Neptunium-237	8.30E-01	2.99E-07		2.19E-09	2.23E-06	2.53E-06	0.39%
26	2	Subsurface	Nickel	7.35E+01			5.58E-09		5.58E-09	0.00%
26	2	Subsurface	PCB, Total	3.58E+00	8.89E-06	1.22E-05	1.01E-06		2.21E-05	3.39%
26	2	Subsurface	Thorium-230	1.27E+01	5.68E-06		5.38E-08	3.50E-08	5.77E-06	0.88%
26	2	Subsurface	Total PAH	2.30E-02	2.08E-07	2.65E-07	4.40E-10		4.74E-07	0.07%
26	2	Subsurface	Uranium-234	1.57E+01	5.51E-06		2.67E-08	1.34E-08	5.55E-06	0.85%
26	2	Subsurface	Uranium-235	1.41E+00	5.11E-07		2.13E-09	2.59E-06	3.10E-06	0.48%
26	2	Subsurface	Uranium-238	4.22E+01	1.97E-05		5.89E-08	1.63E-05	3.60E-05	5.52%
26	2	Subsurface	**Totals**		**1.23E-04**	**4.64E-04**	**2.73E-06**	**6.28E-05**	**6.52E-04**	
26	2	Subsurface	**Percent**		**18.80%**	**71.15%**	**0.42%**	**9.63%**		
26	3	Subsurface	Arsenic	4.16E+01	7.75E-05	2.28E-05	5.24E-08		1.00E-04	23.48%
26	3	Subsurface	Beryllium	3.86E+00	2.06E-05	2.02E-04	2.70E-09		2.22E-04	52.03%
26	3	Subsurface	Cadmium	2.34E+00	1.10E-06	4.32E-07	1.23E-09		1.54E-06	0.36%
26	3	Subsurface	Cesium-137	6.01E-01	5.78E-08		1.07E-12	5.16E-06	5.22E-06	1.22%
26	3	Subsurface	Chromium	3.51E+01			8.61E-07		8.61E-07	0.20%
26	3	Subsurface	Cobalt	1.02E+01			2.67E-08		2.67E-08	0.01%
26	3	Subsurface	Naphthalene	1.05E+00			3.46E-07		3.46E-07	0.08%
26	3	Subsurface	Neptunium-237	7.30E-01	2.63E-07		1.93E-09	1.96E-06	2.23E-06	0.52%
26	3	Subsurface	Nickel	4.80E+01			3.64E-09		3.64E-09	0.00%
26	3	Subsurface	PCB, Total	1.88E+00	4.65E-06	6.38E-06	5.27E-07		1.16E-05	2.71%
26	3	Subsurface	Technetium-99	8.75E+01	1.49E-06		1.84E-10	2.41E-08	1.51E-06	0.35%
26	3	Subsurface	Thorium-230	9.57E+00	4.29E-06		4.07E-08	2.65E-08	4.36E-06	1.02%
26	3	Subsurface	Total PAH	1.01E+00	9.13E-06	1.16E-05	1.93E-08		2.08E-05	4.87%
26	3	Subsurface	Uranium-234	4.05E+01	1.42E-05		6.88E-08	3.45E-08	1.43E-05	3.35%
26	3	Subsurface	Uranium-235	1.48E+00	5.34E-07		2.22E-09	2.71E-06	3.24E-06	0.76%
26	3	Subsurface	Uranium-238	4.53E+01	2.11E-05		6.31E-08	1.74E-05	3.86E-05	9.04%
26	3	Subsurface	**Totals**		**1.55E-04**	**2.43E-04**	**2.02E-06**	**2.73E-05**	**4.27E-04**	
26	3	Subsurface	**Percent**		**36.27%**	**56.85%**	**0.47%**	**6.41%**		
26	4	Subsurface	Americium-241	1.17E+00	5.66E-07		4.92E-09	1.09E-07	6.80E-07	0.14%
26	4	Subsurface	Arsenic	1.21E+01	2.25E-05	6.61E-06	1.52E-08		2.91E-05	5.92%
26	4	Subsurface	Beryllium	7.63E-01	4.07E-06	3.99E-05	5.35E-10		4.39E-05	8.93%
26	4	Subsurface	Cadmium	1.99E+00	9.40E-07	3.68E-07	1.05E-09		1.31E-06	0.27%
26	4	Subsurface	Cesium-137	5.73E-01	5.51E-08		1.02E-12	4.92E-06	4.97E-06	1.01%
26	4	Subsurface	Chromium	1.35E+02			3.32E-06		3.32E-06	0.67%
26	4	Subsurface	Cobalt	1.04E+01			2.73E-08		2.73E-08	0.01%
26	4	Subsurface	Cobalt-60	3.09E-03	2.76E-10		1.65E-14	1.29E-07	1.30E-07	0.03%
26	4	Subsurface	Neptunium-237	1.20E+01	4.32E-06		3.17E-08	3.23E-05	3.66E-05	7.44%
26	4	Subsurface	Nickel	4.41E+03			3.35E-07		3.35E-07	0.07%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
26	4	Subsurface	PCB, Total	5.62E-01	1.40E-06	1.91E-06	1.58E-07		3.47E-06	0.70%
26	4	Subsurface	Plutonium-239/240	4.40E+00	2.69E-06		2.18E-08	2.97E-09	2.72E-06	0.55%
26	4	Subsurface	Technetium-99	4.65E+02	7.91E-06		9.79E-10	1.28E-07	8.04E-06	1.63%
26	4	Subsurface	Thorium-230	2.84E+01	1.27E-05		1.21E-07	7.86E-08	1.29E-05	2.63%
26	4	Subsurface	Total PAH	4.15E-01	3.76E-06	4.79E-06	7.94E-09		8.56E-06	1.74%
26	4	Subsurface	Uranium-234	1.13E+02	3.95E-05		1.92E-07	9.60E-08	3.98E-05	8.09%
26	4	Subsurface	Uranium-235	7.85E+00	2.84E-06		1.18E-08	1.44E-05	1.73E-05	3.51%
26	4	Subsurface	Uranium-238	3.27E+02	1.52E-04		4.56E-07	1.26E-04	2.79E-04	56.67%
26	4	Subsurface	**Totals**		**2.56E-04**	**5.35E-05**	**4.70E-06**	**1.78E-04**	**4.92E-04**	
26	4	Subsurface	**Percent**		**51.97%**	**10.88%**	**0.96%**	**36.19%**		
27	1	Subsurface	Cobalt-60	1.01E-02	9.04E-10		5.39E-14	4.23E-07	4.24E-07	48.68%
27	1	Subsurface	Nickel	3.97E+01			3.01E-09		3.01E-09	0.35%
27	1	Subsurface	PCB, Total	7.20E-02	1.79E-07	2.45E-07	2.03E-08		4.44E-07	50.97%
27	1	Subsurface	**Totals**		**1.80E-07**	**2.45E-07**	**2.33E-08**	**4.23E-07**	**8.71E-07**	
27	1	Subsurface	**Percent**		**20.62%**	**28.13%**	**2.67%**	**48.58%**		
47	1	Subsurface	Arsenic	4.52E+01	8.42E-05	2.47E-05	5.69E-08		1.09E-04	8.12%
47	1	Subsurface	Beryllium	7.00E-01	3.74E-06	3.66E-05	4.90E-10		4.03E-05	3.00%
47	1	Subsurface	Cadmium	1.28E+01	6.04E-06	2.36E-06	6.73E-09		8.41E-06	0.63%
47	1	Subsurface	Chromium	5.39E+01			1.32E-06		1.32E-06	0.10%
47	1	Subsurface	Cobalt	1.69E+01			4.44E-08		4.44E-08	0.00%
47	1	Subsurface	Naphthalene	1.90E+00			6.29E-07		6.29E-07	0.05%
47	1	Subsurface	Neptunium-237	1.46E-01	5.25E-08		3.86E-10	3.93E-07	4.46E-07	0.03%
47	1	Subsurface	Nickel	8.25E+01			6.26E-09		6.26E-09	0.00%
47	1	Subsurface	PCB, Total	9.60E-01	2.38E-06	3.27E-06	2.70E-07		5.92E-06	0.44%
47	1	Subsurface	Plutonium-239/240	4.19E+00	2.57E-06		2.08E-08	2.83E-09	2.59E-06	0.19%
47	1	Subsurface	Thorium-230	5.45E+01	2.44E-05		2.32E-07	1.51E-07	2.48E-05	1.85%
47	1	Subsurface	Total PAH	5.41E+01	4.90E-04	6.24E-04	1.03E-06		1.11E-03	83.08%
47	1	Subsurface	Trichloroethene	1.40E+00	5.60E-07	1.37E-06	2.06E-05		2.26E-05	1.68%
47	1	Subsurface	Uranium-234	8.10E+00	2.84E-06		1.38E-08	6.90E-09	2.86E-06	0.21%
47	1	Subsurface	Uranium-235	5.00E-01	1.81E-07		7.53E-10	9.17E-07	1.10E-06	0.08%
47	1	Subsurface	Uranium-238	8.21E+00	3.83E-06		1.15E-08	3.16E-06	7.00E-06	0.52%
47	1	Subsurface	**Totals**		**6.21E-04**	**6.92E-04**	**2.43E-05**	**4.63E-06**	**1.34E-03**	
47	1	Subsurface	**Percent**		**46.27%**	**51.58%**	**1.81%**	**0.35%**		
74	1	Subsurface	Cesium-137	4.80E-01	4.61E-08		8.52E-13	4.12E-06	4.17E-06	3.38%
74	1	Subsurface	PCB, Total	2.97E+00	7.39E-06	1.01E-05	8.37E-07		1.83E-05	14.89%
74	1	Subsurface	Total PAH	3.16E+00	2.86E-05	3.65E-05	6.05E-08		6.52E-05	52.91%
74	1	Subsurface	Uranium-234	7.55E+00	2.65E-06		1.28E-08	6.43E-09	2.67E-06	2.17%
74	1	Subsurface	Uranium-238	3.85E+01	1.79E-05		5.37E-08	1.48E-05	3.28E-05	26.65%
74	1	Subsurface	**Totals**		**5.67E-05**	**4.66E-05**	**9.64E-07**	**1.90E-05**	**1.23E-04**	
74	1	Subsurface	**Percent**		**46.01%**	**37.82%**	**0.78%**	**15.39%**		
75	1	Subsurface	Arsenic	1.68E+01	3.13E-05	9.20E-06	2.12E-08		4.05E-05	82.72%
75	1	Subsurface	Cadmium	1.10E+00	5.19E-07	2.03E-07	5.78E-10		7.23E-07	1.47%
75	1	Subsurface	Chromium	7.17E+01			1.76E-06		1.76E-06	3.59%
75	1	Subsurface	Nickel	8.87E+01			6.73E-09		6.73E-09	0.01%
75	1	Subsurface	PCB, Total	2.30E-01	5.71E-07	7.83E-07	6.47E-08		1.42E-06	2.89%
75	1	Subsurface	Total PAH	2.21E-01	2.01E-06	2.55E-06	4.23E-09		4.56E-06	9.31%
75	1	Subsurface	**Totals**		**3.44E-05**	**1.27E-05**	**1.86E-06**		**4.90E-05**	
75	1	Subsurface	**Percent**		**70.22%**	**25.99%**	**3.79%**			
76	1	Subsurface	Arsenic	1.31E+01	2.44E-05	7.16E-06	1.65E-08		3.16E-05	44.68%
76	1	Subsurface	PCB, Total	2.60E-01	6.45E-07	8.85E-07	7.31E-08		1.60E-06	2.27%
76	1	Subsurface	Total PAH	1.76E+00	1.59E-05	2.03E-05	3.36E-08		3.62E-05	51.30%
76	1	Subsurface	Uranium-238	1.45E+00	6.76E-07		2.02E-09	5.59E-07	1.24E-06	1.75%
76	1	Subsurface	**Totals**		**4.16E-05**	**2.83E-05**	**1.25E-07**	**5.59E-07**	**7.07E-05**	
76	1	Subsurface	**Percent**		**58.94%**	**40.09%**	**0.18%**	**0.79%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
78	1	Subsurface	Cadmium	2.36E+00	1.11E-06	4.36E-07	1.24E-09		1.55E-06	0.17%
78	1	Subsurface	Cobalt	1.61E+01			4.23E-08		4.23E-08	0.00%
78	1	Subsurface	Cobalt-60	5.91E-03	5.29E-10		3.16E-14	2.48E-07	2.48E-07	0.03%
78	1	Subsurface	Naphthalene	1.60E+01			5.29E-06		5.29E-06	0.59%
78	1	Subsurface	PCB, Total	1.20E+01	2.98E-05	4.08E-05	3.38E-06		7.40E-05	8.29%
78	1	Subsurface	Total PAH	3.91E+01	3.54E-04	4.51E-04	7.48E-07		8.06E-04	90.34%
78	1	Subsurface	Uranium-235	2.64E-01	9.55E-08		3.98E-10	4.84E-07	5.80E-07	0.07%
78	1	Subsurface	Uranium-238	5.29E+00	2.47E-06		7.38E-09	2.04E-06	4.51E-06	0.51%
78	1	Subsurface	**Totals**		**3.88E-04**	**4.92E-04**	**9.47E-06**	**2.77E-06**	**8.93E-04**	
78	1	Subsurface	**Percent**		**43.46%**	**55.17%**	**1.06%**	**0.31%**		
80	1	Subsurface	Americium-241	6.40E+00	3.08E-06		2.68E-08	5.97E-07	3.71E-06	0.17%
80	1	Subsurface	Arsenic	1.01E+01	1.87E-05	5.51E-06	1.27E-08		2.43E-05	1.14%
80	1	Subsurface	Beryllium	7.80E-01	4.16E-06	4.07E-05	5.47E-10		4.49E-05	2.10%
80	1	Subsurface	Chromium	1.65E+02			4.05E-06		4.05E-06	0.19%
80	1	Subsurface	Neptunium-237	5.05E-01	1.82E-07		1.33E-09	1.36E-06	1.54E-06	0.07%
80	1	Subsurface	PCB, Total	4.31E+01	1.07E-04	1.47E-04	1.21E-05		2.66E-04	12.45%
80	1	Subsurface	Thorium-230	4.40E+00	1.97E-06		1.87E-08	1.22E-08	2.00E-06	0.09%
80	1	Subsurface	Total PAH	1.42E-01	1.28E-06	1.63E-06	2.71E-09		2.92E-06	0.14%
80	1	Subsurface	Uranium-234	2.29E+02	8.03E-05		3.89E-07	1.95E-07	8.09E-05	3.79%
80	1	Subsurface	Uranium-235	3.00E+01	1.09E-05		4.52E-08	5.50E-05	6.59E-05	3.09%
80	1	Subsurface	Uranium-238	1.92E+03	8.96E-04		2.68E-06	7.40E-04	1.64E-03	76.76%
80	1	Subsurface	**Totals**		**1.12E-03**	**1.95E-04**	**1.93E-05**	**7.97E-04**	**2.13E-03**	
80	1	Subsurface	**Percent**		**52.63%**	**9.11%**	**0.91%**	**37.35%**		
81	1	Subsurface	Arsenic	1.11E+01	2.07E-05	6.08E-06	1.40E-08		2.68E-05	2.51%
81	1	Subsurface	Beryllium	6.98E-01	3.73E-06	3.65E-05	4.89E-10		4.02E-05	3.77%
81	1	Subsurface	Chromium	6.38E+01			1.56E-06		1.56E-06	0.15%
81	1	Subsurface	Cobalt	1.58E+01			4.15E-08		4.15E-08	0.00%
81	1	Subsurface	Nickel	7.50E+01			5.69E-09		5.69E-09	0.00%
81	1	Subsurface	PCB, Total	1.60E+02	3.96E-04	5.43E-04	4.49E-05		9.85E-04	92.42%
81	1	Subsurface	Total PAH	4.95E-01	4.49E-06	5.71E-06	9.46E-09		1.02E-05	0.96%
81	1	Subsurface	Uranium-238	2.29E+00	1.07E-06		3.19E-09	8.80E-07	1.95E-06	0.18%
81	1	Subsurface	**Totals**		**4.26E-04**	**5.92E-04**	**4.66E-05**	**8.80E-07**	**1.07E-03**	
81	1	Subsurface	**Percent**		**40.02%**	**55.53%**	**4.37%**	**0.08%**		
99	1	Subsurface	Arsenic	9.94E+00	1.85E-05	5.43E-06	1.25E-08		2.39E-05	35.02%
99	1	Subsurface	Beryllium	7.22E-01	3.85E-06	3.77E-05	5.06E-10		4.16E-05	60.80%
99	1	Subsurface	Chromium	6.29E+01			1.54E-06		1.54E-06	2.25%
99	1	Subsurface	Cobalt-60	1.19E-02	1.06E-09		6.36E-14	4.99E-07	5.00E-07	0.73%
99	1	Subsurface	Nickel	8.52E+01			6.47E-09		6.47E-09	0.01%
99	1	Subsurface	Uranium-238	9.45E-01	4.41E-07		1.32E-09	3.64E-07	8.06E-07	1.18%
99	1	Subsurface	**Totals**		**2.28E-05**	**4.31E-05**	**1.56E-06**	**8.63E-07**	**6.84E-05**	
99	1	Subsurface	**Percent**		**33.34%**	**63.11%**	**2.28%**	**1.26%**		
99	2	Subsurface	Chromium	4.57E+01			1.12E-06		1.12E-06	100.00%
99	2	Subsurface	**Totals**				**1.12E-06**		**1.12E-06**	
99	2	Subsurface	**Percent**				**100.00%**			
135	1	Subsurface	PCB, Total	3.60E+02	8.94E-04	1.23E-03	1.01E-04		2.22E-03	100.00%
135	1	Subsurface	**Totals**		**8.94E-04**	**1.23E-03**	**1.01E-04**		**2.22E-03**	
135	1	Subsurface	**Percent**		**40.26%**	**55.18%**	**4.56%**			
138	1	Subsurface	Arsenic	1.08E+01	2.01E-05	5.89E-06	1.36E-08		2.60E-05	36.14%
138	1	Subsurface	Beryllium	6.28E-01	3.35E-06	3.28E-05	4.40E-10		3.62E-05	50.34%
138	1	Subsurface	Cadmium	4.87E+00	2.30E-06	9.00E-07	2.56E-09		3.20E-06	4.46%
138	1	Subsurface	Chromium	5.65E+01			1.39E-06		1.39E-06	1.93%
138	1	Subsurface	Cobalt	9.18E+00			2.41E-08		2.41E-08	0.03%
138	1	Subsurface	Nickel	7.71E+01			5.85E-09		5.85E-09	0.01%
138	1	Subsurface	PCB, Total	5.00E-01	1.24E-06	1.70E-06	1.41E-07		3.08E-06	4.29%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
138	1	Subsurface	Total PAH	9.74E-02	8.83E-07	1.12E-06	1.86E-09		2.01E-06	2.80%
138	1	Subsurface	**Totals**		**2.78E-05**	**4.24E-05**	**1.58E-06**		**7.18E-05**	
138	1	Subsurface	**Percent**		**38.74%**	**59.06%**	**2.19%**			
138	2	Subsurface	Arsenic	1.03E+01	1.92E-05	5.65E-06	1.30E-08		2.49E-05	88.50%
138	2	Subsurface	Cadmium	5.00E-01	2.36E-07	9.24E-08	2.63E-10		3.28E-07	1.17%
138	2	Subsurface	Chromium	6.28E+01			1.54E-06		1.54E-06	5.47%
138	2	Subsurface	Nickel	9.60E+01			7.29E-09		7.29E-09	0.03%
138	2	Subsurface	PCB, Total	9.20E-02	2.28E-07	3.13E-07	2.59E-08		5.67E-07	2.02%
138	2	Subsurface	Total PAH	3.84E-02	3.48E-07	4.43E-07	7.34E-10		7.92E-07	2.81%
138	2	Subsurface	**Totals**		**2.00E-05**	**6.50E-06**	**1.59E-06**		**2.81E-05**	
138	2	Subsurface	**Percent**		**71.26%**	**23.10%**	**5.64%**			
153	1	Subsurface	Arsenic	9.92E+00	1.85E-05	5.42E-06	1.25E-08		2.39E-05	77.78%
153	1	Subsurface	Chromium	6.59E+01			1.62E-06		1.62E-06	5.26%
153	1	Subsurface	Nickel	7.83E+01			5.95E-09		5.95E-09	0.02%
153	1	Subsurface	PCB, Total	6.00E-01	1.49E-06	2.04E-06	1.69E-07		3.70E-06	12.04%
153	1	Subsurface	Total PAH	7.31E-02	6.62E-07	8.43E-07	1.40E-09		1.51E-06	4.90%
153	1	Subsurface	**Totals**		**2.06E-05**	**8.31E-06**	**1.81E-06**		**3.07E-05**	
153	1	Subsurface	**Percent**		**67.09%**	**27.04%**	**5.87%**			
154	1	Subsurface	Arsenic	1.52E+01	2.82E-05	8.30E-06	1.91E-08		3.66E-05	44.52%
154	1	Subsurface	Chromium	7.21E+01			1.77E-06		1.77E-06	2.15%
154	1	Subsurface	Nickel	9.89E+01			7.51E-09		7.51E-09	0.01%
154	1	Subsurface	PCB, Total	3.20E+00	7.94E-06	1.09E-05	9.00E-07		1.97E-05	24.03%
154	1	Subsurface	Total PAH	1.04E+00	9.43E-06	1.20E-05	1.99E-08		2.14E-05	26.12%
154	1	Subsurface	Uranium-238	3.06E+00	1.43E-06		4.27E-09	1.18E-06	2.61E-06	3.18%
154	1	Subsurface	**Totals**		**4.70E-05**	**3.12E-05**	**2.72E-06**	**1.18E-06**	**8.21E-05**	
154	1	Subsurface	**Percent**		**57.28%**	**37.97%**	**3.31%**	**1.44%**		
154	2	Subsurface	PCB, Total	4.00E-01	9.93E-07	1.36E-06	1.13E-07		2.47E-06	100.00%
154	2	Subsurface	**Totals**		**9.93E-07**	**1.36E-06**	**1.13E-07**		**2.47E-06**	
154	2	Subsurface	**Percent**		**40.26%**	**55.18%**	**4.56%**			
155	1	Subsurface	Arsenic	9.01E+00	1.68E-05	4.93E-06	1.13E-08		2.17E-05	27.57%
155	1	Subsurface	Neptunium-237	1.03E-01	3.70E-08		2.72E-10	2.77E-07	3.14E-07	0.40%
155	1	Subsurface	Nickel	7.65E+01			5.81E-09		5.81E-09	0.01%
155	1	Subsurface	PCB, Total	9.20E+00	2.28E-05	3.13E-05	2.59E-06		5.67E-05	72.02%
155	1	Subsurface	**Totals**		**3.96E-05**	**3.62E-05**	**2.60E-06**	**2.77E-07**	**7.88E-05**	
155	1	Subsurface	**Percent**		**50.34%**	**46.00%**	**3.31%**	**0.35%**		
156	1	Subsurface	Arsenic	1.11E+01	2.07E-05	6.07E-06	1.40E-08		2.68E-05	29.29%
156	1	Subsurface	Beryllium	1.00E+00	5.34E-06	5.22E-05	7.01E-10		5.76E-05	63.03%
156	1	Subsurface	Chromium	6.31E+01			1.55E-06		1.55E-06	1.69%
156	1	Subsurface	Cobalt	1.72E+01			4.52E-08		4.52E-08	0.05%
156	1	Subsurface	Nickel	6.16E+01			4.68E-09		4.68E-09	0.01%
156	1	Subsurface	PCB, Total	3.00E-01	7.45E-07	1.02E-06	8.44E-08		1.85E-06	2.03%
156	1	Subsurface	Total PAH	8.26E-02	7.48E-07	9.53E-07	1.58E-09		1.70E-06	1.86%
156	1	Subsurface	Uranium-238	2.19E+00	1.02E-06		3.05E-09	8.44E-07	1.87E-06	2.04%
156	1	Subsurface	**Totals**		**2.85E-05**	**6.03E-05**	**1.70E-06**	**8.44E-07**	**9.13E-05**	
156	1	Subsurface	**Percent**		**31.22%**	**65.99%**	**1.86%**	**0.92%**		
158	1	Subsurface	Arsenic	9.51E+00	1.77E-05	5.20E-06	1.20E-08		2.29E-05	32.74%
158	1	Subsurface	Beryllium	5.69E-01	3.04E-06	2.97E-05	3.99E-10		3.28E-05	46.78%
158	1	Subsurface	Chromium	5.11E+01			1.25E-06		1.25E-06	1.79%
158	1	Subsurface	Cobalt	1.26E+01			3.30E-08		3.30E-08	0.05%
158	1	Subsurface	Neptunium-237	5.96E-02	2.14E-08		1.57E-10	1.60E-07	1.82E-07	0.26%
158	1	Subsurface	Nickel	8.12E+01			6.16E-09		6.16E-09	0.01%
158	1	Subsurface	Total PAH	4.78E-01	4.33E-06	5.52E-06	9.15E-09		9.86E-06	14.08%
158	1	Subsurface	Uranium-235	1.40E-01	5.07E-08		2.11E-10	2.57E-07	3.08E-07	0.44%
158	1	Subsurface	Uranium-238	3.16E+00	1.47E-06		4.41E-09	1.22E-06	2.69E-06	3.85%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
158	1	Subsurface	**Totals**		**2.66E-05**	**4.04E-05**	**1.32E-06**	**1.63E-06**	**7.00E-05**	
158	1	Subsurface	**Percent**		**38.03%**	**57.75%**	**1.88%**	**2.33%**		
160	1	Subsurface	Arsenic	8.22E+00	1.53E-05	4.50E-06	1.04E-08		1.98E-05	85.94%
160	1	Subsurface	Chromium	4.63E+01			1.13E-06		1.13E-06	4.92%
160	1	Subsurface	Total PAH	1.02E-01	9.26E-07	1.18E-06	1.95E-09		2.11E-06	9.14%
160	1	Subsurface	**Totals**		**1.62E-05**	**5.67E-06**	**1.15E-06**		**2.31E-05**	
160	1	Subsurface	**Percent**		**70.41%**	**24.62%**	**4.97%**			
163	1	Subsurface	Arsenic	1.00E+01	1.86E-05	5.47E-06	1.26E-08		2.41E-05	86.83%
163	1	Subsurface	Chromium	5.89E+01			1.44E-06		1.44E-06	5.20%
163	1	Subsurface	Nickel	7.54E+01			5.72E-09		5.72E-09	0.02%
163	1	Subsurface	Total PAH	1.07E-01	9.70E-07	1.23E-06	2.05E-09		2.21E-06	7.95%
163	1	Subsurface	**Totals**		**1.96E-05**	**6.70E-06**	**1.46E-06**		**2.78E-05**	
163	1	Subsurface	**Percent**		**70.57%**	**24.15%**	**5.28%**			
165	1	Subsurface	Arsenic	6.37E+01	1.19E-04	3.48E-05	8.02E-08		1.54E-04	36.83%
165	1	Subsurface	Beryllium	8.14E-01	4.34E-06	4.25E-05	5.70E-10		4.69E-05	11.24%
165	1	Subsurface	Cesium-137	3.47E+00	3.34E-07		6.16E-12	2.98E-05	3.01E-05	7.23%
165	1	Subsurface	Chromium	3.61E+01			8.84E-07		8.84E-07	0.21%
165	1	Subsurface	Cobalt	8.44E+00			2.22E-08		2.22E-08	0.01%
165	1	Subsurface	Naphthalene	1.51E+00			4.98E-07		4.98E-07	0.12%
165	1	Subsurface	Neptunium-237	4.26E-01	1.53E-07		1.12E-09	1.15E-06	1.30E-06	0.31%
165	1	Subsurface	Nickel	3.36E+01			2.55E-09		2.55E-09	0.00%
165	1	Subsurface	PCB, Total	9.89E+00	2.46E-05	3.37E-05	2.78E-06		6.10E-05	14.63%
165	1	Subsurface	Plutonium-239/240	2.81E+00	1.72E-06		1.39E-08	1.90E-09	1.73E-06	0.42%
165	1	Subsurface	Thorium-230	6.02E+00	2.70E-06		2.56E-08	1.67E-08	2.74E-06	0.66%
165	1	Subsurface	Total PAH	1.87E+00	1.69E-05	2.15E-05	3.57E-08		3.85E-05	9.24%
165	1	Subsurface	Uranium-234	5.76E+01	2.02E-05		9.80E-08	4.91E-08	2.04E-05	4.88%
165	1	Subsurface	Uranium-235	2.06E+00	7.46E-07		3.11E-09	3.78E-06	4.53E-06	1.09%
165	1	Subsurface	Uranium-238	6.42E+01	2.99E-05		8.95E-08	2.47E-05	5.47E-05	13.13%
165	1	Subsurface	**Totals**		**2.20E-04**	**1.33E-04**	**4.54E-06**	**5.95E-05**	**4.17E-04**	
165	1	Subsurface	**Percent**		**52.83%**	**31.80%**	**1.09%**	**14.28%**		
169	1	Subsurface	Arsenic	2.03E+01	3.78E-05	1.11E-05	2.56E-08		4.89E-05	13.83%
169	1	Subsurface	Beryllium	2.30E+00	1.23E-05	1.20E-04	1.61E-09		1.32E-04	37.44%
169	1	Subsurface	Chromium	2.15E+02			5.27E-06		5.27E-06	1.49%
169	1	Subsurface	Cobalt	7.80E+01			2.05E-07		2.05E-07	0.06%
169	1	Subsurface	Cobalt-60	7.40E-03	6.62E-10		3.95E-14	3.10E-07	3.11E-07	0.09%
169	1	Subsurface	Nickel	8.04E+02			6.10E-08		6.10E-08	0.02%
169	1	Subsurface	PCB, Total	1.00E+01	2.48E-05	3.40E-05	2.81E-06		6.17E-05	17.44%
169	1	Subsurface	Total PAH	4.59E+00	4.16E-05	5.29E-05	8.77E-08		9.45E-05	26.73%
169	1	Subsurface	Uranium-234	6.55E+00	2.30E-06		1.11E-08	5.58E-09	2.31E-06	0.65%
169	1	Subsurface	Uranium-235	4.60E-01	1.66E-07		6.93E-10	8.44E-07	1.01E-06	0.29%
169	1	Subsurface	Uranium-238	8.12E+00	3.79E-06		1.13E-08	3.13E-06	6.92E-06	1.96%
169	1	Subsurface	**Totals**		**1.23E-04**	**2.18E-04**	**8.49E-06**	**4.29E-06**	**3.54E-04**	
169	1	Subsurface	**Percent**		**34.70%**	**61.69%**	**2.40%**	**1.21%**		
170	1	Subsurface	Cesium-137	3.35E-01	3.22E-08		5.95E-13	2.88E-06	2.91E-06	49.85%
170	1	Subsurface	Cobalt-60	9.50E-03	8.50E-10		5.07E-14	3.98E-07	3.99E-07	6.84%
170	1	Subsurface	Neptunium-237	1.15E-01	4.14E-08		3.04E-10	3.09E-07	3.51E-07	6.02%
170	1	Subsurface	Uranium-238	2.55E+00	1.19E-06		3.56E-09	9.82E-07	2.17E-06	37.29%
170	1	Subsurface	**Totals**		**1.26E-06**		**3.86E-09**	**4.56E-06**	**5.83E-06**	
170	1	Subsurface	**Percent**		**21.66%**		**0.07%**	**78.27%**		
176	1	Subsurface	Arsenic	4.86E+01	9.04E-05	2.66E-05	6.12E-08		1.17E-04	98.73%
176	1	Subsurface	Chromium	6.11E+01			1.50E-06		1.50E-06	1.26%
176	1	Subsurface	Nickel	1.07E+02			8.13E-09		8.13E-09	0.01%
176	1	Subsurface	**Totals**		**9.04E-05**	**2.66E-05**	**1.57E-06**		**1.19E-04**	
176	1	Subsurface	**Percent**		**76.27%**	**22.41%**	**1.32%**			

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
177	1	Subsurface	Arsenic	9.50E+00	1.77E-05	5.20E-06	1.20E-08		2.29E-05	93.35%
177	1	Subsurface	Chromium	6.62E+01			1.62E-06		1.62E-06	6.62%
177	1	Subsurface	Nickel	8.47E+01			6.43E-09		6.43E-09	0.03%
177	1	Subsurface	**Totals**		**1.77E-05**	**5.20E-06**	**1.64E-06**		**2.45E-05**	
177	1	Subsurface	**Percent**		**72.12%**	**21.18%**	**6.70%**			
180	1	Subsurface	Arsenic	7.57E+01	1.41E-04	4.14E-05	9.54E-08		1.82E-04	82.92%
180	1	Subsurface	Beryllium	6.25E-01	3.34E-06	3.26E-05	4.38E-10		3.60E-05	16.35%
180	1	Subsurface	Chromium	6.34E+01			1.56E-06		1.56E-06	0.71%
180	1	Subsurface	Cobalt	1.37E+01			3.61E-08		3.61E-08	0.02%
180	1	Subsurface	Nickel	9.03E+01			6.86E-09		6.86E-09	0.00%
180	1	Subsurface	**Totals**		**1.44E-04**	**7.41E-05**	**1.69E-06**		**2.20E-04**	
180	1	Subsurface	**Percent**		**65.58%**	**33.65%**	**0.77%**			
180	2	Subsurface	Arsenic	1.17E+01	2.17E-05	6.39E-06	1.47E-08		2.81E-05	89.29%
180	2	Subsurface	Chromium	6.02E+01			1.48E-06		1.48E-06	4.68%
180	2	Subsurface	Nickel	8.64E+01			6.56E-09		6.56E-09	0.02%
180	2	Subsurface	Total PAH	9.19E-02	8.32E-07	1.06E-06	1.76E-09		1.89E-06	6.01%
180	2	Subsurface	**Totals**		**2.26E-05**	**7.45E-06**	**1.50E-06**		**3.15E-05**	
180	2	Subsurface	**Percent**		**71.62%**	**23.62%**	**4.76%**			
180	3	Subsurface	Arsenic	1.36E+01	2.53E-05	7.44E-06	1.71E-08		3.28E-05	51.96%
180	3	Subsurface	Beryllium	5.03E-01	2.68E-06	2.63E-05	3.52E-10		2.90E-05	45.91%
180	3	Subsurface	Chromium	5.44E+01			1.33E-06		1.33E-06	2.11%
180	3	Subsurface	Nickel	7.17E+01			5.44E-09		5.44E-09	0.01%
180	3	Subsurface	**Totals**		**2.80E-05**	**3.37E-05**	**1.36E-06**		**6.31E-05**	
180	3	Subsurface	**Percent**		**44.40%**	**53.45%**	**2.15%**			
180	4	Subsurface	Arsenic	1.11E+01	2.06E-05	6.05E-06	1.39E-08		2.67E-05	28.34%
180	4	Subsurface	Beryllium	1.14E+00	6.08E-06	5.96E-05	7.99E-10		6.56E-05	69.72%
180	4	Subsurface	Chromium	6.00E+01			1.47E-06		1.47E-06	1.56%
180	4	Subsurface	Cobalt	9.68E+00			2.54E-08		2.54E-08	0.03%
180	4	Subsurface	Nickel	6.99E+01			5.30E-09		5.30E-09	0.01%
180	4	Subsurface	Total PAH	1.58E-02	1.43E-07	1.82E-07	3.02E-10		3.26E-07	0.35%
180	4	Subsurface	**Totals**		**2.68E-05**	**6.58E-05**	**1.52E-06**		**9.41E-05**	
180	4	Subsurface	**Percent**		**28.51%**	**69.88%**	**1.61%**			
181	1	Subsurface	Chromium	3.44E+01			8.43E-07		8.43E-07	38.58%
181	1	Subsurface	PCB, Total	1.03E-01	2.56E-07	3.51E-07	2.90E-08		6.35E-07	29.06%
181	1	Subsurface	Total PAH	3.43E-02	3.11E-07	3.96E-07	6.56E-10		7.07E-07	32.35%
181	1	Subsurface	**Totals**		**5.67E-07**	**7.46E-07**	**8.73E-07**		**2.19E-06**	
181	1	Subsurface	**Percent**		**25.92%**	**34.14%**	**39.94%**			
194	1	Subsurface	Arsenic	1.02E+01	1.90E-05	5.57E-06	1.28E-08		2.46E-05	40.84%
194	1	Subsurface	Beryllium	5.96E-01	3.18E-06	3.11E-05	4.18E-10		3.43E-05	57.07%
194	1	Subsurface	Chromium	5.11E+01			1.25E-06		1.25E-06	2.08%
194	1	Subsurface	Nickel	6.12E+01			4.64E-09		4.64E-09	0.01%
194	1	Subsurface	**Totals**		**2.22E-05**	**3.67E-05**	**1.27E-06**		**6.01E-05**	
194	1	Subsurface	**Percent**		**36.84%**	**61.04%**	**2.11%**			
194	2	Subsurface	Arsenic	1.02E+01	1.90E-05	5.57E-06	1.28E-08		2.46E-05	36.57%
194	2	Subsurface	Beryllium	6.96E-01	3.71E-06	3.64E-05	4.88E-10		4.01E-05	59.68%
194	2	Subsurface	Chromium	5.96E+01			1.46E-06		1.46E-06	2.18%
194	2	Subsurface	Uranium-238	1.24E+00	5.76E-07		1.72E-09	4.76E-07	1.05E-06	1.57%
194	2	Subsurface	**Totals**		**2.33E-05**	**4.19E-05**	**1.48E-06**	**4.76E-07**	**6.71E-05**	
194	2	Subsurface	**Percent**		**34.65%**	**62.45%**	**2.20%**	**0.71%**		
194	3	Subsurface	Arsenic	1.44E+01	2.69E-05	7.89E-06	1.82E-08		3.48E-05	87.53%
194	3	Subsurface	Cesium-137	2.35E-01	2.26E-08		4.17E-13	2.02E-06	2.04E-06	5.13%
194	3	Subsurface	Chromium	4.98E+01			1.22E-06		1.22E-06	3.07%
194	3	Subsurface	Nickel	6.32E+01			4.80E-09		4.80E-09	0.01%
194	3	Subsurface	Total PAH	3.39E-02	3.07E-07	3.91E-07	6.48E-10		6.99E-07	1.76%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	3	Subsurface	Uranium-238	1.16E+00	5.42E-07		1.62E-09	4.48E-07	9.91E-07	2.49%
194	3	Subsurface	**Totals**		**2.77E-05**	**8.28E-06**	**1.25E-06**	**2.46E-06**	**3.97E-05**	
194	3	Subsurface	**Percent**		**69.81%**	**20.85%**	**3.14%**	**6.20%**		
194	4	Subsurface	Arsenic	1.02E+01	1.90E-05	5.60E-06	1.29E-08		2.47E-05	39.42%
194	4	Subsurface	Beryllium	5.87E-01	3.13E-06	3.07E-05	4.11E-10		3.38E-05	54.04%
194	4	Subsurface	Cesium-137	1.44E-01	1.38E-08		2.56E-13	1.24E-06	1.25E-06	2.00%
194	4	Subsurface	Chromium	5.59E+01			1.37E-06		1.37E-06	2.19%
194	4	Subsurface	Nickel	8.15E+01			6.19E-09		6.19E-09	0.01%
194	4	Subsurface	Total PAH	2.85E-02	2.58E-07	3.29E-07	5.45E-10		5.88E-07	0.94%
194	4	Subsurface	Uranium-238	1.02E+00	4.77E-07		1.43E-09	3.94E-07	8.72E-07	1.39%
194	4	Subsurface	**Totals**		**2.29E-05**	**3.66E-05**	**1.39E-06**	**1.63E-06**	**6.25E-05**	
194	4	Subsurface	**Percent**		**36.66%**	**58.50%**	**2.23%**	**2.61%**		
194	5	Subsurface	Arsenic	9.71E+00	1.81E-05	5.31E-06	1.22E-08		2.34E-05	32.95%
194	5	Subsurface	Beryllium	6.26E-01	3.34E-06	3.27E-05	4.39E-10		3.60E-05	50.74%
194	5	Subsurface	Chromium	5.54E+01			1.36E-06		1.36E-06	1.91%
194	5	Subsurface	Nickel	7.56E+01			5.74E-09		5.74E-09	0.01%
194	5	Subsurface	Total PAH	4.50E-01	4.08E-06	5.19E-06	8.60E-09		9.28E-06	13.06%
194	5	Subsurface	Uranium-238	1.11E+00	5.18E-07		1.55E-09	4.28E-07	9.48E-07	1.33%
194	5	Subsurface	**Totals**		**2.60E-05**	**4.32E-05**	**1.39E-06**	**4.28E-07**	**7.10E-05**	
194	5	Subsurface	**Percent**		**36.63%**	**60.82%**	**1.95%**	**0.60%**		
194	6	Subsurface	Nickel	6.98E+01			5.30E-09		5.30E-09	0.55%
194	6	Subsurface	Uranium-238	1.12E+00	5.21E-07		1.56E-09	4.30E-07	9.53E-07	99.45%
194	6	Subsurface	**Totals**		**5.21E-07**		**6.86E-09**	**4.30E-07**	**9.58E-07**	
194	6	Subsurface	**Percent**		**54.36%**		**0.72%**	**44.92%**		
194	7	Subsurface	Arsenic	1.02E+01	1.90E-05	5.58E-06	1.29E-08		2.46E-05	94.94%
194	7	Subsurface	Chromium	5.32E+01			1.30E-06		1.30E-06	5.03%
194	7	Subsurface	Nickel	7.71E+01			5.86E-09		5.86E-09	0.02%
194	7	Subsurface	**Totals**		**1.90E-05**	**5.58E-06**	**1.32E-06**		**2.59E-05**	
194	7	Subsurface	**Percent**		**73.35%**	**21.55%**	**5.11%**			
194	8	Subsurface	Arsenic	1.09E+01	2.02E-05	5.95E-06	1.37E-08		2.62E-05	67.41%
194	8	Subsurface	Cesium-137	2.78E-01	2.67E-08		4.94E-13	2.39E-06	2.41E-06	6.21%
194	8	Subsurface	Chromium	6.09E+01			1.49E-06		1.49E-06	3.85%
194	8	Subsurface	Cobalt	1.33E+01			3.49E-08		3.49E-08	0.09%
194	8	Subsurface	Nickel	6.01E+01			4.56E-09		4.56E-09	0.01%
194	8	Subsurface	Total PAH	3.74E-01	3.39E-06	4.31E-06	7.15E-09		7.71E-06	19.84%
194	8	Subsurface	Uranium-238	1.18E+00	5.50E-07		1.65E-09	4.55E-07	1.01E-06	2.59%
194	8	Subsurface	**Totals**		**2.42E-05**	**1.03E-05**	**1.56E-06**	**2.84E-06**	**3.89E-05**	
194	8	Subsurface	**Percent**		**62.29%**	**26.40%**	**4.00%**	**7.31%**		
194	9	Subsurface	Arsenic	9.77E+00	1.82E-05	5.35E-06	1.23E-08		2.36E-05	95.53%
194	9	Subsurface	Chromium	4.48E+01			1.10E-06		1.10E-06	4.45%
194	9	Subsurface	Nickel	5.98E+01			4.54E-09		4.54E-09	0.02%
194	9	Subsurface	**Totals**		**1.82E-05**	**5.35E-06**	**1.12E-06**		**2.47E-05**	
194	9	Subsurface	**Percent**		**73.80%**	**21.68%**	**4.52%**			
194	10	Subsurface	Arsenic	1.10E+01	2.05E-05	6.03E-06	1.39E-08		2.66E-05	67.40%
194	10	Subsurface	Cesium-137	5.81E-01	5.58E-08		1.03E-12	4.99E-06	5.04E-06	12.80%
194	10	Subsurface	Chromium	5.00E+01			1.23E-06		1.23E-06	3.11%
194	10	Subsurface	Nickel	7.60E+01			5.77E-09		5.77E-09	0.01%
194	10	Subsurface	Total PAH	2.57E-01	2.33E-06	2.97E-06	4.92E-09		5.30E-06	13.45%
194	10	Subsurface	Uranium-238	1.49E+00	6.95E-07		2.08E-09	5.74E-07	1.27E-06	3.22%
194	10	Subsurface	**Totals**		**2.36E-05**	**8.99E-06**	**1.25E-06**	**5.56E-06**	**3.94E-05**	
194	10	Subsurface	**Percent**		**59.89%**	**22.82%**	**3.18%**	**14.11%**		
194	11	Subsurface	Arsenic	1.08E+01	2.00E-05	5.88E-06	1.36E-08		2.59E-05	87.95%
194	11	Subsurface	Chromium	5.66E+01			1.39E-06		1.39E-06	4.70%
194	11	Subsurface	Nickel	1.01E+02			7.64E-09		7.64E-09	0.03%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	11	Subsurface	PCB, Total	8.40E-02	2.09E-07	2.86E-07	2.36E-08		5.18E-07	1.76%
194	11	Subsurface	Total PAH	7.95E-02	7.21E-07	9.17E-07	1.52E-09		1.64E-06	5.56%
194	11	Subsurface	**Totals**		**2.10E-05**	**7.09E-06**	**1.43E-06**		**2.95E-05**	
194	11	Subsurface	**Percent**		**71.10%**	**24.04%**	**4.86%**			
194	12	Subsurface	Arsenic	9.18E+00	1.71E-05	5.02E-06	1.16E-08		2.21E-05	57.83%
194	12	Subsurface	Chromium	6.34E+01			1.55E-06		1.55E-06	4.06%
194	12	Subsurface	Nickel	7.86E+01			5.97E-09		5.97E-09	0.02%
194	12	Subsurface	Total PAH	7.07E-01	6.41E-06	8.15E-06	1.35E-08		1.46E-05	38.09%
194	12	Subsurface	**Totals**		**2.35E-05**	**1.32E-05**	**1.58E-06**		**3.83E-05**	
194	12	Subsurface	**Percent**		**61.42%**	**34.44%**	**4.14%**			
194	13	Subsurface	Arsenic	9.90E+00	1.84E-05	5.41E-06	1.25E-08		2.39E-05	89.08%
194	13	Subsurface	Chromium	6.25E+01			1.53E-06		1.53E-06	5.72%
194	13	Subsurface	Nickel	6.80E+01			5.16E-09		5.16E-09	0.02%
194	13	Subsurface	Total PAH	6.73E-02	6.10E-07	7.76E-07	1.29E-09		1.39E-06	5.18%
194	13	Subsurface	**Totals**		**1.90E-05**	**6.19E-06**	**1.55E-06**		**2.68E-05**	
194	13	Subsurface	**Percent**		**71.10%**	**23.11%**	**5.79%**			
194	14	Subsurface	Arsenic	1.09E+01	2.02E-05	5.93E-06	1.37E-08		2.61E-05	94.58%
194	14	Subsurface	Chromium	6.09E+01			1.49E-06		1.49E-06	5.40%
194	14	Subsurface	Nickel	7.09E+01			5.38E-09		5.38E-09	0.02%
194	14	Subsurface	**Totals**		**2.02E-05**	**5.93E-06**	**1.51E-06**		**2.76E-05**	
194	14	Subsurface	**Percent**		**73.06%**	**21.46%**	**5.47%**			
194	15	Subsurface	Arsenic	8.95E+00	1.67E-05	4.89E-06	1.13E-08		2.16E-05	93.53%
194	15	Subsurface	Chromium	6.06E+01			1.49E-06		1.49E-06	6.44%
194	15	Subsurface	Nickel	7.98E+01			6.06E-09		6.06E-09	0.03%
194	15	Subsurface	**Totals**		**1.67E-05**	**4.89E-06**	**1.50E-06**		**2.31E-05**	
194	15	Subsurface	**Percent**		**72.26%**	**21.23%**	**6.52%**			
194	16	Subsurface	Arsenic	1.09E+01	2.04E-05	5.98E-06	1.38E-08		2.63E-05	40.62%
194	16	Subsurface	Beryllium	6.46E-01	3.45E-06	3.37E-05	4.53E-10		3.72E-05	57.36%
194	16	Subsurface	Chromium	5.32E+01			1.31E-06		1.31E-06	2.01%
194	16	Subsurface	Nickel	8.59E+01			6.52E-09		6.52E-09	0.01%
194	16	Subsurface	**Totals**		**2.38E-05**	**3.97E-05**	**1.33E-06**		**6.48E-05**	
194	16	Subsurface	**Percent**		**36.70%**	**61.26%**	**2.05%**			
194	17	Subsurface	Arsenic	1.12E+01	2.08E-05	6.10E-06	1.40E-08		2.69E-05	81.15%
194	17	Subsurface	Cadmium	8.52E-01	4.02E-07	1.57E-07	4.48E-10		5.60E-07	1.69%
194	17	Subsurface	Cesium-137	2.53E-01	2.43E-08		4.49E-13	2.17E-06	2.20E-06	6.63%
194	17	Subsurface	Chromium	5.45E+01			1.34E-06		1.34E-06	4.04%
194	17	Subsurface	Nickel	6.94E+01			5.27E-09		5.27E-09	0.02%
194	17	Subsurface	Total PAH	1.04E-01	9.42E-07	1.20E-06	1.99E-09		2.14E-06	6.47%
194	17	Subsurface	**Totals**		**2.21E-05**	**7.46E-06**	**1.36E-06**	**2.17E-06**	**3.31E-05**	
194	17	Subsurface	**Percent**		**66.82%**	**22.51%**	**4.10%**	**6.56%**		
194	18	Subsurface	Arsenic	1.19E+01	2.21E-05	6.49E-06	1.50E-08		2.86E-05	39.84%
194	18	Subsurface	Beryllium	7.21E-01	3.85E-06	3.77E-05	5.05E-10		4.15E-05	57.81%
194	18	Subsurface	Chromium	6.85E+01			1.68E-06		1.68E-06	2.34%
194	18	Subsurface	Nickel	9.80E+01			7.44E-09		7.44E-09	0.01%
194	18	Subsurface	**Totals**		**2.59E-05**	**4.42E-05**	**1.70E-06**		**7.18E-05**	
194	18	Subsurface	**Percent**		**36.14%**	**61.49%**	**2.37%**			
194	19	Subsurface	Arsenic	9.96E+00	1.85E-05	5.45E-06	1.25E-08		2.40E-05	95.27%
194	19	Subsurface	Chromium	4.84E+01			1.19E-06		1.19E-06	4.71%
194	19	Subsurface	Nickel	6.83E+01			5.18E-09		5.18E-09	0.02%
194	19	Subsurface	**Totals**		**1.85E-05**	**5.45E-06**	**1.20E-06**		**2.52E-05**	
194	19	Subsurface	**Percent**		**73.60%**	**21.62%**	**4.78%**			
194	20	Subsurface	Arsenic	1.14E+01	2.13E-05	6.26E-06	1.44E-08		2.76E-05	34.62%
194	20	Subsurface	Beryllium	8.66E-01	4.62E-06	4.52E-05	6.07E-10		4.99E-05	62.60%
194	20	Subsurface	Chromium	7.11E+01			1.74E-06		1.74E-06	2.19%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	20	Subsurface	Cobalt	1.48E+01			3.90E-08		3.90E-08	0.05%
194	20	Subsurface	Nickel	6.57E+01			4.99E-09		4.99E-09	0.01%
194	20	Subsurface	Total PAH	2.08E-02	1.88E-07	2.40E-07	3.98E-10		4.29E-07	0.54%
194	20	Subsurface	**Totals**		**2.61E-05**	**5.17E-05**	**1.80E-06**		**7.96E-05**	
194	20	Subsurface	**Percent**		**32.78%**	**64.95%**	**2.26%**			
194	21	Subsurface	Arsenic	3.52E+01	6.55E-05	1.93E-05	4.43E-08		8.48E-05	44.64%
194	21	Subsurface	Beryllium	1.80E+00	9.61E-06	9.40E-05	1.26E-09		1.04E-04	54.53%
194	21	Subsurface	Chromium	5.51E+01			1.35E-06		1.35E-06	0.71%
194	21	Subsurface	Cobalt	8.31E+01			2.18E-07		2.18E-07	0.11%
194	21	Subsurface	Nickel	7.01E+01			5.32E-09		5.32E-09	0.00%
194	21	Subsurface	**Totals**		**7.51E-05**	**1.13E-04**	**1.62E-06**		**1.90E-04**	
194	21	Subsurface	**Percent**		**39.54%**	**59.61%**	**0.85%**			
194	22	Subsurface	Arsenic	1.15E+01	2.14E-05	6.29E-06	1.45E-08		2.77E-05	29.34%
194	22	Subsurface	Cesium-137	1.62E-01	1.56E-08		2.88E-13	1.39E-06	1.41E-06	1.49%
194	22	Subsurface	Chromium	4.75E+01			1.17E-06		1.17E-06	1.23%
194	22	Subsurface	Cobalt	1.08E+01			2.83E-08		2.83E-08	0.03%
194	22	Subsurface	Nickel	7.08E+01			5.37E-09		5.37E-09	0.01%
194	22	Subsurface	PCB, Total	1.04E+01	2.58E-05	3.54E-05	2.93E-06		6.41E-05	67.90%
194	22	Subsurface	**Totals**		**4.72E-05**	**4.17E-05**	**4.14E-06**	**1.39E-06**	**9.45E-05**	
194	22	Subsurface	**Percent**		**50.02%**	**44.13%**	**4.38%**	**1.47%**		
194	23	Subsurface	Arsenic	1.12E+01	2.09E-05	6.14E-06	1.41E-08		2.71E-05	76.68%
194	23	Subsurface	Cadmium	6.58E+00	3.10E-06	1.22E-06	3.46E-09		4.32E-06	12.25%
194	23	Subsurface	Cesium-137	2.83E-01	2.72E-08		5.02E-13	2.43E-06	2.46E-06	6.96%
194	23	Subsurface	Chromium	5.90E+01			1.45E-06		1.45E-06	4.10%
194	23	Subsurface	Nickel	7.33E+01			5.57E-09		5.57E-09	0.02%
194	23	Subsurface	**Totals**		**2.40E-05**	**7.36E-06**	**1.47E-06**	**2.43E-06**	**3.53E-05**	
194	23	Subsurface	**Percent**		**68.11%**	**20.85%**	**4.16%**	**6.88%**		
194	24	Subsurface	Arsenic	1.19E+01	2.22E-05	6.52E-06	1.50E-08		2.87E-05	41.36%
194	24	Subsurface	Beryllium	6.50E-01	3.47E-06	3.40E-05	4.55E-10		3.74E-05	53.88%
194	24	Subsurface	Cesium-137	2.13E-01	2.05E-08		3.78E-13	1.83E-06	1.85E-06	2.66%
194	24	Subsurface	Chromium	4.67E+01			1.15E-06		1.15E-06	1.65%
194	24	Subsurface	Nickel	8.41E+01			6.39E-09		6.39E-09	0.01%
194	24	Subsurface	Total PAH	1.49E-02	1.35E-07	1.72E-07	2.85E-10		3.07E-07	0.44%
194	24	Subsurface	**Totals**		**2.58E-05**	**4.06E-05**	**1.17E-06**	**1.83E-06**	**6.95E-05**	
194	24	Subsurface	**Percent**		**37.17%**	**58.52%**	**1.68%**	**2.63%**		
194	25	Subsurface	Arsenic	1.05E+01	1.96E-05	5.75E-06	1.32E-08		2.53E-05	33.85%
194	25	Subsurface	Beryllium	8.30E-01	4.43E-06	4.34E-05	5.82E-10		4.78E-05	63.86%
194	25	Subsurface	Chromium	5.23E+01			1.28E-06		1.28E-06	1.71%
194	25	Subsurface	Nickel	6.33E+01			4.81E-09		4.81E-09	0.01%
194	25	Subsurface	Total PAH	2.06E-02	1.87E-07	2.38E-07	3.94E-10		4.25E-07	0.57%
194	25	Subsurface	**Totals**		**2.42E-05**	**4.93E-05**	**1.30E-06**		**7.48E-05**	
194	25	Subsurface	**Percent**		**32.32%**	**65.94%**	**1.74%**			
194	26	Subsurface	Arsenic	9.09E+00	1.69E-05	4.97E-06	1.14E-08		2.19E-05	33.60%
194	26	Subsurface	Beryllium	7.31E-01	3.90E-06	3.82E-05	5.12E-10		4.21E-05	64.54%
194	26	Subsurface	Chromium	4.81E+01			1.18E-06		1.18E-06	1.81%
194	26	Subsurface	Cobalt	1.34E+01			3.53E-08		3.53E-08	0.05%
194	26	Subsurface	**Totals**		**2.08E-05**	**4.32E-05**	**1.23E-06**		**6.52E-05**	
194	26	Subsurface	**Percent**		**31.94%**	**66.18%**	**1.88%**			
194	27	Subsurface	Arsenic	1.07E+01	1.98E-05	5.82E-06	1.34E-08		2.57E-05	95.28%
194	27	Subsurface	Chromium	5.16E+01			1.27E-06		1.27E-06	4.70%
194	27	Subsurface	Nickel	6.55E+01			4.97E-09		4.97E-09	0.02%
194	27	Subsurface	**Totals**		**1.98E-05**	**5.82E-06**	**1.28E-06**		**2.69E-05**	
194	27	Subsurface	**Percent**		**73.61%**	**21.62%**	**4.77%**			
194	28	Subsurface	Arsenic	1.13E+01	2.10E-05	6.17E-06	1.42E-08		2.72E-05	38.07%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	28	Subsurface	Beryllium	7.41E-01	3.96E-06	3.87E-05	5.19E-10		4.27E-05	59.74%
194	28	Subsurface	Chromium	6.36E+01			1.56E-06		1.56E-06	2.18%
194	28	Subsurface	Nickel	6.89E+01			5.23E-09		5.23E-09	0.01%
194	28	Subsurface	**Totals**		**2.50E-05**	**4.49E-05**	**1.58E-06**		**7.14E-05**	
194	28	Subsurface	**Percent**		**34.95%**	**62.84%**	**2.21%**			
194	29	Subsurface	Arsenic	1.43E+01	2.66E-05	7.82E-06	1.80E-08		3.44E-05	41.44%
194	29	Subsurface	Beryllium	8.20E-01	4.38E-06	4.28E-05	5.75E-10		4.72E-05	56.81%
194	29	Subsurface	Chromium	5.76E+01			1.41E-06		1.41E-06	1.70%
194	29	Subsurface	Cobalt	1.41E+01			3.71E-08		3.71E-08	0.04%
194	29	Subsurface	Nickel	8.47E+01			6.43E-09		6.43E-09	0.01%
194	29	Subsurface	**Totals**		**3.10E-05**	**5.07E-05**	**1.47E-06**		**8.31E-05**	
194	29	Subsurface	**Percent**		**37.28%**	**60.95%**	**1.77%**			
194	30	Subsurface	Arsenic	9.44E+00	1.76E-05	5.16E-06	1.19E-08		2.28E-05	11.03%
194	30	Subsurface	Beryllium	3.16E+00	1.69E-05	1.65E-04	2.22E-09		1.82E-04	88.29%
194	30	Subsurface	Chromium	5.70E+01			1.40E-06		1.40E-06	0.68%
194	30	Subsurface	Nickel	6.99E+01			5.30E-09		5.30E-09	0.00%
194	30	Subsurface	**Totals**		**3.45E-05**	**1.70E-04**	**1.42E-06**		**2.06E-04**	
194	30	Subsurface	**Percent**		**16.71%**	**82.60%**	**0.69%**			
194	31	Subsurface	Cesium-137	5.70E-01	5.48E-08		1.01E-12	4.89E-06	4.95E-06	77.13%
194	31	Subsurface	Uranium-238	1.72E+00	8.02E-07		2.40E-09	6.63E-07	1.47E-06	22.87%
194	31	Subsurface	**Totals**		**8.57E-07**		**2.40E-09**	**5.55E-06**	**6.41E-06**	
194	31	Subsurface	**Percent**		**13.36%**		**0.04%**	**86.61%**		
195	1	Subsurface	Arsenic	1.17E+01	2.18E-05	6.42E-06	1.48E-08		2.83E-05	85.05%
195	1	Subsurface	Cesium-137	3.70E-01	3.56E-08		6.57E-13	3.18E-06	3.21E-06	9.66%
195	1	Subsurface	Chromium	5.85E+01			1.44E-06		1.44E-06	4.32%
195	1	Subsurface	Nickel	8.00E+01			6.07E-09		6.07E-09	0.02%
195	1	Subsurface	Total PAH	1.53E-02	1.39E-07	1.76E-07	2.93E-10		3.15E-07	0.95%
195	1	Subsurface	**Totals**		**2.20E-05**	**6.59E-06**	**1.46E-06**	**3.18E-06**	**3.32E-05**	
195	1	Subsurface	**Percent**		**66.23%**	**19.83%**	**4.38%**	**9.55%**		
195	2	Subsurface	Chromium	5.63E+01			1.38E-06		1.38E-06	77.63%
195	2	Subsurface	Total PAH	1.93E-02	1.75E-07	2.23E-07	3.69E-10		3.98E-07	22.37%
195	2	Subsurface	**Totals**		**1.75E-07**	**2.23E-07**	**1.38E-06**		**1.78E-06**	
195	2	Subsurface	**Percent**		**9.83%**	**12.52%**	**77.65%**			
195	3	Subsurface	Arsenic	1.09E+01	2.02E-05	5.93E-06	1.37E-08		2.61E-05	92.94%
195	3	Subsurface	Chromium	5.29E+01			1.30E-06		1.30E-06	4.61%
195	3	Subsurface	Nickel	9.63E+01			7.31E-09		7.31E-09	0.03%
195	3	Subsurface	Total PAH	3.31E-02	3.00E-07	3.82E-07	6.33E-10		6.82E-07	2.43%
195	3	Subsurface	**Totals**		**2.05E-05**	**6.32E-06**	**1.32E-06**		**2.81E-05**	
195	3	Subsurface	**Percent**		**72.87%**	**22.45%**	**4.69%**			
195	4	Subsurface	Arsenic	1.01E+01	1.88E-05	5.51E-06	1.27E-08		2.43E-05	95.10%
195	4	Subsurface	Chromium	5.08E+01			1.24E-06		1.24E-06	4.87%
195	4	Subsurface	Nickel	8.37E+01			6.35E-09		6.35E-09	0.02%
195	4	Subsurface	**Totals**		**1.88E-05**	**5.51E-06**	**1.26E-06**		**2.55E-05**	
195	4	Subsurface	**Percent**		**73.47%**	**21.58%**	**4.95%**			
195	5	Subsurface	Arsenic	8.80E+00	1.64E-05	4.81E-06	1.11E-08		2.12E-05	81.33%
195	5	Subsurface	Cesium-137	3.41E-01	3.28E-08		6.05E-13	2.93E-06	2.96E-06	11.35%
195	5	Subsurface	Chromium	5.74E+01			1.41E-06		1.41E-06	5.40%
195	5	Subsurface	Nickel	8.11E+01			6.16E-09		6.16E-09	0.02%
195	5	Subsurface	Total PAH	2.40E-02	2.17E-07	2.77E-07	4.59E-10		4.95E-07	1.90%
195	5	Subsurface	**Totals**		**1.66E-05**	**5.09E-06**	**1.43E-06**	**2.93E-06**	**2.61E-05**	
195	5	Subsurface	**Percent**		**63.79%**	**19.52%**	**5.47%**	**11.22%**		
195	6	Subsurface	Arsenic	1.05E+01	1.95E-05	5.74E-06	1.32E-08		2.53E-05	77.69%
195	6	Subsurface	Cesium-137	2.26E-01	2.17E-08		4.01E-13	1.94E-06	1.96E-06	6.03%
195	6	Subsurface	Chromium	5.52E+01			1.35E-06		1.35E-06	4.16%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
195	6	Subsurface	Nickel	9.81E+01			7.45E-09		7.45E-09	0.02%
195	6	Subsurface	Total PAH	1.91E-01	1.73E-06	2.20E-06	3.65E-09		3.94E-06	12.10%
195	6	Subsurface	**Totals**		**2.13E-05**	**7.94E-06**	**1.38E-06**	**1.94E-06**	**3.25E-05**	
195	6	Subsurface	**Percent**		**65.41%**	**24.40%**	**4.23%**	**5.96%**		
195	7	Subsurface	Arsenic	8.49E+00	1.58E-05	4.64E-06	1.07E-08		2.05E-05	94.50%
195	7	Subsurface	Chromium	4.74E+01			1.16E-06		1.16E-06	5.37%
195	7	Subsurface	Cobalt	1.13E+01			2.98E-08		2.98E-08	0.14%
195	7	Subsurface	**Totals**		**1.58E-05**	**4.64E-06**	**1.20E-06**		**2.17E-05**	
195	7	Subsurface	**Percent**		**73.00%**	**21.44%**	**5.55%**			
195	8	Subsurface	Arsenic	1.12E+01	2.08E-05	6.10E-06	1.40E-08		2.69E-05	37.18%
195	8	Subsurface	Beryllium	6.78E-01	3.62E-06	3.54E-05	4.75E-10		3.90E-05	54.01%
195	8	Subsurface	Cesium-137	2.44E-01	2.35E-08		4.33E-13	2.09E-06	2.12E-06	2.93%
195	8	Subsurface	Chromium	5.23E+01			1.28E-06		1.28E-06	1.77%
195	8	Subsurface	Cobalt	1.41E+01			3.70E-08		3.70E-08	0.05%
195	8	Subsurface	Nickel	8.93E+01			6.78E-09		6.78E-09	0.01%
195	8	Subsurface	Total PAH	1.42E-01	1.29E-06	1.64E-06	2.72E-09		2.93E-06	4.05%
195	8	Subsurface	**Totals**		**2.57E-05**	**4.32E-05**	**1.34E-06**	**2.09E-06**	**7.23E-05**	
195	8	Subsurface	**Percent**		**35.54%**	**59.70%**	**1.86%**	**2.90%**		
195	9	Subsurface	Arsenic	1.03E+01	1.92E-05	5.65E-06	1.30E-08		2.49E-05	94.32%
195	9	Subsurface	Chromium	6.08E+01			1.49E-06		1.49E-06	5.65%
195	9	Subsurface	Nickel	9.12E+01			6.92E-09		6.92E-09	0.03%
195	9	Subsurface	**Totals**		**1.92E-05**	**5.65E-06**	**1.51E-06**		**2.64E-05**	
195	9	Subsurface	**Percent**		**72.87%**	**21.41%**	**5.72%**			
195	10	Subsurface	Arsenic	9.83E+00	1.83E-05	5.38E-06	1.24E-08		2.37E-05	95.73%
195	10	Subsurface	Chromium	4.29E+01			1.05E-06		1.05E-06	4.25%
195	10	Subsurface	Nickel	7.98E+01			6.06E-09		6.06E-09	0.02%
195	10	Subsurface	**Totals**		**1.83E-05**	**5.38E-06**	**1.07E-06**		**2.47E-05**	
195	10	Subsurface	**Percent**		**73.95%**	**21.72%**	**4.32%**			
195	11	Subsurface	Arsenic	1.30E+01	2.41E-05	7.08E-06	1.63E-08		3.12E-05	88.95%
195	11	Subsurface	Cesium-137	2.13E-01	2.05E-08		3.78E-13	1.83E-06	1.85E-06	5.27%
195	11	Subsurface	Chromium	5.67E+01			1.39E-06		1.39E-06	3.97%
195	11	Subsurface	Cobalt	1.87E+01			4.90E-08		4.90E-08	0.14%
195	11	Subsurface	Nickel	8.37E+01			6.35E-09		6.35E-09	0.02%
195	11	Subsurface	Total PAH	2.83E-02	2.56E-07	3.26E-07	5.41E-10		5.83E-07	1.66%
195	11	Subsurface	**Totals**		**2.44E-05**	**7.41E-06**	**1.46E-06**	**1.83E-06**	**3.51E-05**	
195	11	Subsurface	**Percent**		**69.50%**	**21.12%**	**4.17%**	**5.21%**		
195	12	Subsurface	Arsenic	1.08E+01	2.00E-05	5.88E-06	1.35E-08		2.59E-05	40.92%
195	12	Subsurface	Beryllium	6.22E-01	3.32E-06	3.25E-05	4.36E-10		3.58E-05	56.57%
195	12	Subsurface	Chromium	6.45E+01			1.58E-06		1.58E-06	2.50%
195	12	Subsurface	Nickel	9.19E+01			6.98E-09		6.98E-09	0.01%
195	12	Subsurface	**Totals**		**2.33E-05**	**3.84E-05**	**1.60E-06**		**6.33E-05**	
195	12	Subsurface	**Percent**		**36.86%**	**60.61%**	**2.53%**			
195	13	Subsurface	Arsenic	9.12E+00	1.70E-05	4.99E-06	1.15E-08		2.20E-05	94.47%
195	13	Subsurface	Chromium	5.23E+01			1.28E-06		1.28E-06	5.51%
195	13	Subsurface	Nickel	8.34E+01			6.33E-09		6.33E-09	0.03%
195	13	Subsurface	**Totals**		**1.70E-05**	**4.99E-06**	**1.30E-06**		**2.33E-05**	
195	13	Subsurface	**Percent**		**72.98%**	**21.44%**	**5.58%**			
195	14	Subsurface	Arsenic	1.02E+01	1.90E-05	5.59E-06	1.29E-08		2.46E-05	94.39%
195	14	Subsurface	Chromium	5.94E+01			1.46E-06		1.46E-06	5.59%
195	14	Subsurface	Nickel	8.22E+01			6.24E-09		6.24E-09	0.02%
195	14	Subsurface	**Totals**		**1.90E-05**	**5.59E-06**	**1.48E-06**		**2.61E-05**	
195	14	Subsurface	**Percent**		**72.92%**	**21.42%**	**5.66%**			
195	15	Subsurface	Arsenic	9.15E+00	1.70E-05	5.00E-06	1.15E-08		2.21E-05	86.05%
195	15	Subsurface	Cesium-137	2.61E-01	2.51E-08		4.63E-13	2.24E-06	2.27E-06	8.84%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
195	15	Subsurface	Chromium	5.34E+01			1.31E-06		1.31E-06	5.11%
195	15	Subsurface	**Totals**		**1.71E-05**	**5.00E-06**	**1.32E-06**	**2.24E-06**	**2.56E-05**	
195	15	Subsurface	**Percent**		**66.57%**	**19.53%**	**5.16%**	**8.74%**		
195	16	Subsurface	Cesium-137	2.94E-01	2.83E-08		5.22E-13	2.52E-06	2.55E-06	66.47%
195	16	Subsurface	Chromium	5.22E+01			1.28E-06		1.28E-06	33.36%
195	16	Subsurface	Nickel	8.59E+01			6.52E-09		6.52E-09	0.17%
195	16	Subsurface	**Totals**		**2.83E-08**		**1.29E-06**	**2.52E-06**	**3.84E-06**	
195	16	Subsurface	**Percent**		**0.74%**		**33.53%**	**65.73%**		
195	17	Subsurface	Arsenic	9.36E+00	1.74E-05	5.12E-06	1.18E-08		2.26E-05	64.97%
195	17	Subsurface	Chromium	6.77E+01			1.66E-06		1.66E-06	4.78%
195	17	Subsurface	Nickel	7.09E+01			5.38E-09		5.38E-09	0.02%
195	17	Subsurface	PCB, Total	7.40E-01	1.84E-06	2.52E-06	2.08E-07		4.56E-06	13.14%
195	17	Subsurface	Total PAH	2.05E-01	1.86E-06	2.36E-06	3.92E-09		4.23E-06	12.17%
195	17	Subsurface	Uranium-235	9.72E-02	3.52E-08		1.46E-10	1.78E-07	2.14E-07	0.62%
195	17	Subsurface	Uranium-238	1.75E+00	8.17E-07		2.45E-09	6.75E-07	1.49E-06	4.31%
195	17	Subsurface	**Totals**		**2.20E-05**	**1.00E-05**	**1.89E-06**	**8.54E-07**	**3.47E-05**	
195	17	Subsurface	**Percent**		**63.28%**	**28.81%**	**5.45%**	**2.46%**		
196	1	Subsurface	Arsenic	1.05E+01	1.95E-05	5.74E-06	1.32E-08		2.53E-05	0.38%
196	1	Subsurface	Beryllium	1.13E+02	6.03E-04	5.90E-03	7.92E-08		6.51E-03	98.38%
196	1	Subsurface	Cadmium	1.16E+02	5.47E-05	2.14E-05	6.10E-08		7.62E-05	1.15%
196	1	Subsurface	Chromium	1.12E+02			2.75E-06		2.75E-06	0.04%
196	1	Subsurface	Cobalt	1.12E+02			2.94E-07		2.94E-07	0.00%
196	1	Subsurface	Neptunium-237	3.11E-01	1.12E-07		8.21E-10	8.36E-07	9.49E-07	0.01%
196	1	Subsurface	Nickel	5.87E+02			4.46E-08		4.46E-08	0.00%
196	1	Subsurface	Uranium-238	1.54E+00	7.18E-07		2.15E-09	5.93E-07	1.31E-06	0.02%
196	1	Subsurface	**Totals**		**6.78E-04**	**5.93E-03**	**3.24E-06**	**1.43E-06**	**6.61E-03**	
196	1	Subsurface	**Percent**		**10.26%**	**89.67%**	**0.05%**	**0.02%**		
196	2	Subsurface	Arsenic	9.40E+00	1.75E-05	5.14E-06	1.18E-08		2.27E-05	10.16%
196	2	Subsurface	Cadmium	4.42E+00	2.08E-06	8.17E-07	2.32E-09		2.90E-06	1.30%
196	2	Subsurface	Nickel	8.01E+01			6.08E-09		6.08E-09	0.00%
196	2	Subsurface	PCB, Total	1.51E+00	3.75E-06	5.14E-06	4.25E-07		9.31E-06	4.17%
196	2	Subsurface	Total PAH	9.04E+00	8.19E-05	1.04E-04	1.73E-07		1.86E-04	83.52%
196	2	Subsurface	Uranium-238	2.21E+00	1.03E-06		3.08E-09	8.51E-07	1.88E-06	0.84%
196	2	Subsurface	**Totals**		**1.06E-04**	**1.15E-04**	**6.21E-07**	**8.51E-07**	**2.23E-04**	
196	2	Subsurface	**Percent**		**47.63%**	**51.71%**	**0.28%**	**0.38%**		
200	1	Subsurface	Arsenic	9.73E+00	1.81E-05	5.32E-06	1.23E-08		2.35E-05	48.76%
200	1	Subsurface	Cesium-137	4.68E-01	4.50E-08		8.31E-13	4.02E-06	4.06E-06	8.44%
200	1	Subsurface	Chromium	6.19E+01			1.52E-06		1.52E-06	3.16%
200	1	Subsurface	Nickel	1.26E+02			9.54E-09		9.54E-09	0.02%
200	1	Subsurface	PCB, Total	2.60E+00	6.45E-06	8.85E-06	7.31E-07		1.60E-05	33.34%
200	1	Subsurface	Total PAH	1.89E-02	1.71E-07	2.18E-07	3.61E-10		3.90E-07	0.81%
200	1	Subsurface	Uranium-235	1.14E-01	4.13E-08		1.72E-10	2.09E-07	2.51E-07	0.52%
200	1	Subsurface	Uranium-238	2.79E+00	1.30E-06		3.90E-09	1.08E-06	2.38E-06	4.95%
200	1	Subsurface	**Totals**		**2.61E-05**	**1.44E-05**	**2.28E-06**	**5.30E-06**	**4.81E-05**	
200	1	Subsurface	**Percent**		**54.33%**	**29.91%**	**4.73%**	**11.02%**		
204	1	Subsurface	Arsenic	1.04E+01	1.94E-05	5.69E-06	1.31E-08		2.51E-05	19.67%
204	1	Subsurface	Beryllium	1.36E+00	7.26E-06	7.10E-05	9.53E-10		7.83E-05	61.46%
204	1	Subsurface	Cadmium	2.73E+00	1.29E-06	5.04E-07	1.43E-09		1.79E-06	1.41%
204	1	Subsurface	Chromium	7.40E+01			1.81E-06		1.81E-06	1.42%
204	1	Subsurface	PCB, Total	2.53E+00	6.28E-06	8.61E-06	7.12E-07		1.56E-05	12.25%
204	1	Subsurface	Uranium-235	1.80E-01	6.51E-08		2.71E-10	3.30E-07	3.96E-07	0.31%
204	1	Subsurface	Uranium-238	5.20E+00	2.42E-06		7.25E-09	2.00E-06	4.43E-06	3.48%
204	1	Subsurface	**Totals**		**3.67E-05**	**8.58E-05**	**2.55E-06**	**2.33E-06**	**1.27E-04**	
204	1	Subsurface	**Percent**		**28.79%**	**67.38%**	**2.00%**	**1.83%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
204	2	Subsurface	PCB, Total	1.70E-01	4.22E-07	5.79E-07	4.78E-08		1.05E-06	100.00%
204	2	Subsurface	**Totals**		**4.22E-07**	**5.79E-07**	**4.78E-08**		**1.05E-06**	
204	2	Subsurface	**Percent**		**40.26%**	**55.18%**	**4.56%**			
204	3	Subsurface	Uranium-238	2.50E+00	1.17E-06		3.49E-09	9.63E-07	2.13E-06	100.00%
204	3	Subsurface	**Totals**		**1.17E-06**		**3.49E-09**	**9.63E-07**	**2.13E-06**	
204	3	Subsurface	**Percent**		**54.67%**		**0.16%**	**45.17%**		
204	4	Subsurface	Uranium-235	1.88E-01	6.80E-08		2.83E-10	3.45E-07	4.13E-07	4.74%
204	4	Subsurface	Uranium-238	9.72E+00	4.53E-06		1.36E-08	3.75E-06	8.29E-06	95.26%
204	4	Subsurface	**Totals**		**4.60E-06**		**1.38E-08**	**4.09E-06**	**8.70E-06**	
204	4	Subsurface	**Percent**		**52.86%**		**0.16%**	**46.99%**		
204	18	Subsurface	Cesium-137	6.30E-01	6.06E-08		1.12E-12	5.41E-06	5.47E-06	52.97%
204	18	Subsurface	Uranium-235	1.25E-01	4.52E-08		1.88E-10	2.29E-07	2.75E-07	2.66%
204	18	Subsurface	Uranium-238	5.37E+00	2.50E-06		7.49E-09	2.07E-06	4.58E-06	44.37%
204	18	Subsurface	**Totals**		**2.61E-06**		**7.68E-09**	**7.70E-06**	**1.03E-05**	
204	18	Subsurface	**Percent**		**25.28%**		**0.07%**	**74.65%**		
204	23	Subsurface	Americium-241	3.71E+00	1.79E-06		1.55E-08	3.46E-07	2.15E-06	0.05%
204	23	Subsurface	Beryllium	1.33E+00	7.10E-06	6.95E-05	9.32E-10		7.66E-05	1.66%
204	23	Subsurface	Cesium-137	1.17E+00	1.13E-07		2.08E-12	1.01E-05	1.02E-05	0.22%
204	23	Subsurface	Chromium	1.75E+02			4.29E-06		4.29E-06	0.09%
204	23	Subsurface	Cobalt-60	1.23E-02	1.10E-09		6.54E-14	5.13E-07	5.14E-07	0.01%
204	23	Subsurface	PCB, Total	7.90E+01	1.96E-04	2.69E-04	2.22E-05		4.87E-04	10.58%
204	23	Subsurface	Trichloroethene	7.30E-02	2.92E-08	7.14E-08	1.08E-06		1.18E-06	0.03%
204	23	Subsurface	Uranium-234	4.45E+02	1.56E-04		7.57E-07	3.79E-07	1.57E-04	3.41%
204	23	Subsurface	Uranium-235	5.70E+01	2.06E-05		8.59E-08	1.05E-04	1.25E-04	2.72%
204	23	Subsurface	Uranium-238	4.39E+03	2.04E-03		6.12E-06	1.69E-03	3.74E-03	81.22%
204	23	Subsurface	**Totals**		**2.43E-03**	**3.38E-04**	**3.46E-05**	**1.81E-03**	**4.60E-03**	
204	23	Subsurface	**Percent**		**52.70%**	**7.35%**	**0.75%**	**39.21%**		
211	1	Subsurface	Arsenic	1.00E+01	1.86E-05	5.47E-06	1.26E-08		2.41E-05	2.52%
211	1	Subsurface	Beryllium	8.50E-01	4.54E-06	4.44E-05	5.96E-10		4.89E-05	5.11%
211	1	Subsurface	Chromium	4.84E+01			1.19E-06		1.19E-06	0.12%
211	1	Subsurface	Cobalt	4.95E+01			1.30E-07		1.30E-07	0.01%
211	1	Subsurface	Neptunium-237	1.56E-01	5.61E-08		4.12E-10	4.20E-07	4.76E-07	0.05%
211	1	Subsurface	Nickel	8.87E+01			6.73E-09		6.73E-09	0.00%
211	1	Subsurface	PCB, Total	1.40E+02	3.48E-04	4.76E-04	3.94E-05		8.63E-04	90.12%
211	1	Subsurface	Total PAH	1.04E-01	9.41E-07	1.20E-06	1.98E-09		2.14E-06	0.22%
211	1	Subsurface	Uranium-234	8.06E+00	2.83E-06		1.37E-08	6.86E-09	2.85E-06	0.30%
211	1	Subsurface	Uranium-235	5.80E-01	2.10E-07		8.74E-10	1.06E-06	1.27E-06	0.13%
211	1	Subsurface	Uranium-238	1.59E+01	7.41E-06		2.22E-08	6.12E-06	1.36E-05	1.42%
211	1	Subsurface	**Totals**		**3.82E-04**	**5.28E-04**	**4.08E-05**	**7.62E-06**	**9.58E-04**	
211	1	Subsurface	**Percent**		**39.89%**	**55.06%**	**4.25%**	**0.79%**		
212	1	Subsurface	Arsenic	1.44E+01	2.68E-05	7.89E-06	1.82E-08		3.48E-05	14.96%
212	1	Subsurface	Beryllium	8.90E-01	4.75E-06	4.65E-05	6.24E-10		5.12E-05	22.06%
212	1	Subsurface	Cesium-137	6.01E-01	5.78E-08		1.07E-12	5.16E-06	5.22E-06	2.25%
212	1	Subsurface	Chromium	6.66E+01			1.63E-06		1.63E-06	0.70%
212	1	Subsurface	Cobalt	1.76E+01			4.62E-08		4.62E-08	0.02%
212	1	Subsurface	Cobalt-60	8.76E-03	7.84E-10		4.68E-14	3.67E-07	3.68E-07	0.16%
212	1	Subsurface	Neptunium-237	4.00E+00	1.44E-06		1.06E-08	1.08E-05	1.22E-05	5.25%
212	1	Subsurface	Nickel	8.69E+01			6.60E-09		6.60E-09	0.00%
212	1	Subsurface	PCB, Total	1.80E-01	4.47E-07	6.13E-07	5.06E-08		1.11E-06	0.48%
212	1	Subsurface	Plutonium-239/240	6.71E+00	4.11E-06		3.33E-08	4.53E-09	4.15E-06	1.79%
212	1	Subsurface	Thorium-230	2.60E+02	1.17E-04		1.11E-06	7.20E-07	1.18E-04	50.97%
212	1	Subsurface	Uranium-235	2.09E-01	7.56E-08		3.15E-10	3.83E-07	4.59E-07	0.20%
212	1	Subsurface	Uranium-238	3.17E+00	1.48E-06		4.42E-09	1.22E-06	2.70E-06	1.16%
212	1	Subsurface	**Totals**		**1.56E-04**	**5.50E-05**	**2.91E-06**	**1.86E-05**	**2.32E-04**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
212	1	Subsurface	**Percent**		**67.06%**	**23.67%**	**1.25%**	**8.01%**		
213	1	Subsurface	Arsenic	9.21E+00	1.71E-05	5.04E-06	1.16E-08		2.22E-05	75.19%
213	1	Subsurface	Chromium	5.47E+01			1.34E-06		1.34E-06	4.54%
213	1	Subsurface	Nickel	6.67E+01			5.07E-09		5.07E-09	0.02%
213	1	Subsurface	PCB, Total	7.30E-02	1.81E-07	2.48E-07	2.05E-08		4.50E-07	1.52%
213	1	Subsurface	Total PAH	1.72E-01	1.56E-06	1.98E-06	3.29E-09		3.54E-06	12.00%
213	1	Subsurface	Uranium-238	2.33E+00	1.09E-06		3.25E-09	8.98E-07	1.99E-06	6.73%
213	1	Subsurface	**Totals**		**2.00E-05**	**7.27E-06**	**1.38E-06**	**8.98E-07**	**2.95E-05**	
213	1	Subsurface	**Percent**		**67.65%**	**24.62%**	**4.69%**	**3.04%**		
213	2	Subsurface	Chromium	6.77E+01			1.66E-06		1.66E-06	99.59%
213	2	Subsurface	Nickel	9.10E+01			6.91E-09		6.91E-09	0.41%
213	2	Subsurface	**Totals**				**1.67E-06**		**1.67E-06**	
213	2	Subsurface	**Percent**				**100.00%**			
214	1	Subsurface	Arsenic	1.15E+01	2.14E-05	6.30E-06	1.45E-08		2.78E-05	100.00%
214	1	Subsurface	**Totals**		**2.14E-05**	**6.30E-06**	**1.45E-08**		**2.78E-05**	
214	1	Subsurface	**Percent**		**77.25%**	**22.69%**	**0.05%**			
215	1	Subsurface	Arsenic	1.02E+01	1.89E-05	5.56E-06	1.28E-08		2.45E-05	67.63%
215	1	Subsurface	Chromium	5.73E+01			1.41E-06		1.41E-06	3.88%
215	1	Subsurface	Nickel	7.32E+01			5.55E-09		5.55E-09	0.02%
215	1	Subsurface	Total PAH	5.00E-01	4.53E-06	5.77E-06	9.56E-09		1.03E-05	28.47%
215	1	Subsurface	**Totals**		**2.34E-05**	**1.13E-05**	**1.43E-06**		**3.62E-05**	
215	1	Subsurface	**Percent**		**64.76%**	**31.28%**	**3.96%**			
216	1	Subsurface	Arsenic	8.60E+00	1.60E-05	4.70E-06	1.08E-08		2.07E-05	72.73%
216	1	Subsurface	Cesium-137	4.10E-01	3.94E-08		7.28E-13	3.52E-06	3.56E-06	12.49%
216	1	Subsurface	Total PAH	1.49E-01	1.35E-06	1.72E-06	2.86E-09		3.08E-06	10.80%
216	1	Subsurface	Uranium-238	1.33E+00	6.20E-07		1.86E-09	5.12E-07	1.13E-06	3.98%
216	1	Subsurface	**Totals**		**1.80E-05**	**6.43E-06**	**1.55E-08**	**4.03E-06**	**2.85E-05**	
216	1	Subsurface	**Percent**		**63.25%**	**22.55%**	**0.05%**	**14.15%**		
217	1	Subsurface	Arsenic	9.42E+00	1.75E-05	5.15E-06	1.19E-08		2.27E-05	89.78%
217	1	Subsurface	Chromium	6.53E+01			1.60E-06		1.60E-06	6.33%
217	1	Subsurface	Cobalt	1.64E+01			4.31E-08		4.31E-08	0.17%
217	1	Subsurface	Nickel	8.71E+01			6.61E-09		6.61E-09	0.03%
217	1	Subsurface	Uranium-238	1.09E+00	5.10E-07		1.53E-09	4.21E-07	9.33E-07	3.69%
217	1	Subsurface	**Totals**		**1.81E-05**	**5.15E-06**	**1.66E-06**	**4.21E-07**	**2.53E-05**	
217	1	Subsurface	**Percent**		**71.38%**	**20.37%**	**6.58%**	**1.67%**		
217	2	Subsurface	Arsenic	9.97E+00	1.86E-05	5.45E-06	1.26E-08		2.40E-05	35.38%
217	2	Subsurface	Beryllium	5.85E-01	3.12E-06	3.06E-05	4.10E-10		3.37E-05	49.58%
217	2	Subsurface	Chromium	6.61E+01			1.62E-06		1.62E-06	2.39%
217	2	Subsurface	Cobalt	8.29E+01			2.18E-07		2.18E-07	0.32%
217	2	Subsurface	Nickel	7.88E+01			5.98E-09		5.98E-09	0.01%
217	2	Subsurface	Total PAH	4.06E-01	3.68E-06	4.68E-06	7.76E-09		8.37E-06	12.32%
217	2	Subsurface	**Totals**		**2.54E-05**	**4.07E-05**	**1.86E-06**		**6.79E-05**	
217	2	Subsurface	**Percent**		**37.35%**	**59.91%**	**2.75%**			
219	1	Subsurface	Neptunium-237	3.31E-01	1.19E-07		8.74E-10	8.90E-07	1.01E-06	15.00%
219	1	Subsurface	Nickel	6.71E+01			5.10E-09		5.10E-09	0.08%
219	1	Subsurface	Total PAH	7.50E-02	6.80E-07	8.66E-07	1.43E-09		1.55E-06	22.96%
219	1	Subsurface	Uranium-235	1.92E-01	6.95E-08		2.89E-10	3.52E-07	4.22E-07	6.27%
219	1	Subsurface	Uranium-238	4.40E+00	2.05E-06		6.14E-09	1.69E-06	3.75E-06	55.70%
219	1	Subsurface	**Totals**		**2.92E-06**	**8.66E-07**	**1.38E-08**	**2.94E-06**	**6.74E-06**	
219	1	Subsurface	**Percent**		**43.34%**	**12.85%**	**0.21%**	**43.60%**		
221	1	Subsurface	Arsenic	1.24E+01	2.30E-05	6.77E-06	1.56E-08		2.98E-05	20.30%
221	1	Subsurface	Beryllium	1.55E+00	8.29E-06	8.11E-05	1.09E-09		8.94E-05	60.89%
221	1	Subsurface	Chromium	6.57E+01			1.61E-06		1.61E-06	1.10%
221	1	Subsurface	Cobalt	7.22E+01			1.90E-07		1.90E-07	0.13%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
221	1	Subsurface	Nickel	9.46E+01			7.18E-09		7.18E-09	0.00%
221	1	Subsurface	PCB, Total	5.00E-01	1.24E-06	1.70E-06	1.41E-07		3.08E-06	2.10%
221	1	Subsurface	Total PAH	1.02E+00	9.27E-06	1.18E-05	1.96E-08		2.11E-05	14.36%
221	1	Subsurface	Uranium-238	1.93E+00	9.00E-07		2.69E-09	7.43E-07	1.65E-06	1.12%
221	1	Subsurface	**Totals**		**4.27E-05**	**1.01E-04**	**1.99E-06**	**7.43E-07**	**1.47E-04**	
221	1	Subsurface	**Percent**		**29.10%**	**69.04%**	**1.35%**	**0.51%**		
222	1	Subsurface	Arsenic	1.02E+01	1.90E-05	5.57E-06	1.28E-08		2.45E-05	43.98%
222	1	Subsurface	Cesium-137	2.99E-01	2.87E-08		5.31E-13	2.57E-06	2.59E-06	4.65%
222	1	Subsurface	Chromium	6.48E+01			1.59E-06		1.59E-06	2.85%
222	1	Subsurface	Cobalt-60	6.54E-03	5.85E-10		3.49E-14	2.74E-07	2.75E-07	0.49%
222	1	Subsurface	Nickel	9.19E+01			6.98E-09		6.98E-09	0.01%
222	1	Subsurface	PCB, Total	9.67E-01	2.40E-06	3.29E-06	2.72E-07		5.96E-06	10.69%
222	1	Subsurface	Total PAH	1.77E-01	1.61E-06	2.04E-06	3.39E-09		3.65E-06	6.55%
222	1	Subsurface	Uranium-234	7.04E+00	2.47E-06		1.20E-08	5.99E-09	2.49E-06	4.46%
222	1	Subsurface	Uranium-235	7.10E-01	2.57E-07		1.07E-09	1.30E-06	1.56E-06	2.80%
222	1	Subsurface	Uranium-238	1.54E+01	7.17E-06		2.15E-08	5.93E-06	1.31E-05	23.53%
222	1	Subsurface	**Totals**		**3.29E-05**	**1.09E-05**	**1.92E-06**	**1.01E-05**	**5.58E-05**	
222	1	Subsurface	**Percent**		**58.96%**	**19.54%**	**3.44%**	**18.06%**		
224	1	Subsurface	Arsenic	1.20E+01	2.22E-05	6.54E-06	1.51E-08		2.88E-05	0.73%
224	1	Subsurface	Cesium-137	3.70E-01	3.56E-08		6.57E-13	3.18E-06	3.21E-06	0.08%
224	1	Subsurface	Chromium	6.50E+01			1.59E-06		1.59E-06	0.04%
224	1	Subsurface	Nickel	1.08E+02			8.16E-09		8.16E-09	0.00%
224	1	Subsurface	PCB, Total	4.75E+02	1.18E-03	1.62E-03	1.34E-04		2.93E-03	74.74%
224	1	Subsurface	Total PAH	4.53E+01	4.10E-04	5.22E-04	8.66E-07		9.33E-04	23.81%
224	1	Subsurface	Uranium-235	2.50E-01	9.05E-08		3.77E-10	4.59E-07	5.50E-07	0.01%
224	1	Subsurface	Uranium-238	2.64E+01	1.23E-05		3.68E-08	1.02E-05	2.25E-05	0.57%
224	1	Subsurface	**Totals**		**1.62E-03**	**2.15E-03**	**1.36E-04**	**1.38E-05**	**3.92E-03**	
224	1	Subsurface	**Percent**		**41.44%**	**54.74%**	**3.47%**	**0.35%**		
225	1	Subsurface	Arsenic	8.10E+00	1.51E-05	4.43E-06	1.02E-08		1.95E-05	73.71%
225	1	Subsurface	Cesium-137	4.17E-01	4.01E-08		7.40E-13	3.58E-06	3.62E-06	13.66%
225	1	Subsurface	Total PAH	7.79E-02	7.05E-07	8.98E-07	1.49E-09		1.60E-06	6.06%
225	1	Subsurface	Uranium-238	2.04E+00	9.51E-07		2.85E-09	7.86E-07	1.74E-06	6.57%
225	1	Subsurface	**Totals**		**1.68E-05**	**5.33E-06**	**1.45E-08**	**4.36E-06**	**2.65E-05**	
225	1	Subsurface	**Percent**		**63.35%**	**20.12%**	**0.05%**	**16.48%**		
226	1	Subsurface	Americium-241	1.43E+00	6.90E-07		6.00E-09	1.34E-07	8.29E-07	0.14%
226	1	Subsurface	Arsenic	7.94E+00	1.48E-05	4.34E-06	1.00E-08		1.91E-05	3.25%
226	1	Subsurface	Beryllium	5.44E-01	2.90E-06	2.84E-05	3.81E-10		3.13E-05	5.32%
226	1	Subsurface	Cesium-137	2.33E+00	2.24E-07		4.13E-12	2.00E-05	2.02E-05	3.43%
226	1	Subsurface	Chromium	6.39E+01			1.57E-06		1.57E-06	0.27%
226	1	Subsurface	Cobalt	7.70E+00			2.02E-08		2.02E-08	0.00%
226	1	Subsurface	Cobalt-60	3.14E-03	2.81E-10		1.68E-14	1.32E-07	1.32E-07	0.02%
226	1	Subsurface	Neptunium-237	1.41E+02	5.08E-05		3.73E-07	3.80E-04	4.31E-04	73.22%
226	1	Subsurface	Nickel	2.18E+02			1.66E-08		1.66E-08	0.00%
226	1	Subsurface	PCB, Total	4.13E+00	1.02E-05	1.40E-05	1.16E-06		2.55E-05	4.32%
226	1	Subsurface	Plutonium-238	1.88E+00	1.14E-06		9.43E-09	4.59E-10	1.15E-06	0.19%
226	1	Subsurface	Plutonium-239/240	5.75E+00	3.52E-06		2.85E-08	3.88E-09	3.55E-06	0.60%
226	1	Subsurface	Technetium-99	4.41E+01	7.50E-07		9.28E-11	1.21E-08	7.62E-07	0.13%
226	1	Subsurface	Thorium-230	4.21E+01	1.89E-05		1.79E-07	1.17E-07	1.92E-05	3.26%
226	1	Subsurface	Total PAH	9.19E-02	8.33E-07	1.06E-06	1.76E-09		1.89E-06	0.32%
226	1	Subsurface	Uranium-234	2.44E+01	8.55E-06		4.14E-08	2.08E-08	8.61E-06	1.46%
226	1	Subsurface	Uranium-235	1.26E+00	4.55E-07		1.90E-09	2.31E-06	2.77E-06	0.47%
226	1	Subsurface	Uranium-238	2.48E+01	1.15E-05		3.45E-08	9.54E-06	2.11E-05	3.59%
226	1	Subsurface	**Totals**		**1.25E-04**	**4.79E-05**	**3.45E-06**	**4.12E-04**	**5.89E-04**	
226	1	Subsurface	**Percent**		**21.28%**	**8.13%**	**0.59%**	**70.01%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
227	1	Subsurface	Arsenic	8.46E+00	1.57E-05	4.63E-06	1.07E-08		2.04E-05	15.28%
227	1	Subsurface	Beryllium	5.50E-01	2.94E-06	2.87E-05	3.85E-10		3.17E-05	23.74%
227	1	Subsurface	Cesium-137	1.67E-01	1.61E-08		2.96E-13	1.43E-06	1.45E-06	1.09%
227	1	Subsurface	Chromium	5.34E+01			1.31E-06		1.31E-06	0.98%
227	1	Subsurface	Cobalt-60	1.53E-02	1.37E-09		8.17E-14	6.41E-07	6.42E-07	0.48%
227	1	Subsurface	Neptunium-237	7.95E-01	2.86E-07		2.10E-09	2.14E-06	2.43E-06	1.82%
227	1	Subsurface	Nickel	1.99E+02			1.51E-08		1.51E-08	0.01%
227	1	Subsurface	PCB, Total	3.94E+00	9.77E-06	1.34E-05	1.11E-06		2.43E-05	18.19%
227	1	Subsurface	Technetium-99	4.18E+01	7.11E-07		8.79E-11	1.15E-08	7.22E-07	0.54%
227	1	Subsurface	Total PAH	3.38E-01	3.06E-06	3.90E-06	6.46E-09		6.96E-06	5.22%
227	1	Subsurface	Uranium-234	1.40E+01	4.91E-06		2.38E-08	1.19E-08	4.94E-06	3.71%
227	1	Subsurface	Uranium-235	1.35E+00	4.87E-07		2.03E-09	2.47E-06	2.96E-06	2.22%
227	1	Subsurface	Uranium-238	4.18E+01	1.95E-05		5.83E-08	1.61E-05	3.56E-05	26.72%
227	1	Subsurface	**Totals**		**5.74E-05**	**5.06E-05**	**2.54E-06**	**2.28E-05**	**1.33E-04**	
227	1	Subsurface	**Percent**		**43.04%**	**37.97%**	**1.90%**	**17.10%**		
227	2	Subsurface	Arsenic	8.34E+00	1.55E-05	4.56E-06	1.05E-08		2.01E-05	23.02%
227	2	Subsurface	Beryllium	5.63E-01	3.00E-06	2.94E-05	3.95E-10		3.24E-05	37.10%
227	2	Subsurface	Chromium	4.55E+01			1.11E-06		1.11E-06	1.28%
227	2	Subsurface	Cobalt	1.06E+01			2.79E-08		2.79E-08	0.03%
227	2	Subsurface	Cobalt-60	1.37E-02	1.23E-09		7.32E-14	5.74E-07	5.75E-07	0.66%
227	2	Subsurface	Neptunium-237	3.83E-02	1.38E-08		1.01E-10	1.03E-07	1.17E-07	0.13%
227	2	Subsurface	Nickel	1.23E+02			9.34E-09		9.34E-09	0.01%
227	2	Subsurface	PCB, Total	4.75E+00	1.18E-05	1.62E-05	1.34E-06		2.93E-05	33.51%
227	2	Subsurface	Total PAH	1.16E-01	1.05E-06	1.33E-06	2.21E-09		2.38E-06	2.73%
227	2	Subsurface	Uranium-238	1.57E+00	7.33E-07		2.19E-09	6.06E-07	1.34E-06	1.54%
227	2	Subsurface	**Totals**		**3.21E-05**	**5.15E-05**	**2.50E-06**	**1.28E-06**	**8.74E-05**	
227	2	Subsurface	**Percent**		**36.77%**	**58.90%**	**2.86%**	**1.47%**		
228	1	Subsurface	Arsenic	2.79E+01	5.19E-05	1.53E-05	3.51E-08		6.72E-05	53.54%
228	1	Subsurface	Beryllium	7.50E-01	4.00E-06	3.92E-05	5.26E-10		4.32E-05	34.38%
228	1	Subsurface	Cadmium	3.90E+00	1.84E-06	7.20E-07	2.05E-09		2.56E-06	2.04%
228	1	Subsurface	Chromium	1.89E+02			4.63E-06		4.63E-06	3.69%
228	1	Subsurface	Cobalt-60	1.29E-02	1.15E-09		6.89E-14	5.41E-07	5.42E-07	0.43%
228	1	Subsurface	Neptunium-237	8.00E-01	2.88E-07		2.11E-09	2.15E-06	2.44E-06	1.94%
228	1	Subsurface	Nickel	7.92E+01			6.01E-09		6.01E-09	0.00%
228	1	Subsurface	Total PAH	6.69E-02	6.06E-07	7.71E-07	1.28E-09		1.38E-06	1.10%
228	1	Subsurface	Uranium-235	1.78E-01	6.44E-08		2.68E-10	3.27E-07	3.91E-07	0.31%
228	1	Subsurface	Uranium-238	3.77E+00	1.76E-06		5.26E-09	1.45E-06	3.22E-06	2.56%
228	1	Subsurface	**Totals**		**6.05E-05**	**5.59E-05**	**4.69E-06**	**4.47E-06**	**1.26E-04**	
228	1	Subsurface	**Percent**		**48.18%**	**44.53%**	**3.73%**	**3.56%**		
229	1	Subsurface	Arsenic	1.17E+01	2.17E-05	6.38E-06	1.47E-08		2.81E-05	80.41%
229	1	Subsurface	Chromium	4.76E+01			1.17E-06		1.17E-06	3.34%
229	1	Subsurface	Nickel	9.14E+01			6.94E-09		6.94E-09	0.02%
229	1	Subsurface	Total PAH	1.57E-01	1.42E-06	1.81E-06	3.00E-09		3.23E-06	9.25%
229	1	Subsurface	Uranium-238	2.86E+00	1.33E-06		3.99E-09	1.10E-06	2.44E-06	6.98%
229	1	Subsurface	**Totals**		**2.45E-05**	**8.19E-06**	**1.20E-06**	**1.10E-06**	**3.49E-05**	
229	1	Subsurface	**Percent**		**70.00%**	**23.42%**	**3.42%**	**3.15%**		
229	2	Subsurface	Arsenic	2.12E+01	3.95E-05	1.16E-05	2.67E-08		5.11E-05	31.20%
229	2	Subsurface	Beryllium	7.90E-01	4.22E-06	4.13E-05	5.54E-10		4.55E-05	27.78%
229	2	Subsurface	Cesium-137	3.21E-01	3.09E-08		5.70E-13	2.76E-06	2.79E-06	1.70%
229	2	Subsurface	Chromium	4.80E+01			1.18E-06		1.18E-06	0.72%
229	2	Subsurface	Neptunium-237	2.87E-01	1.03E-07		7.58E-10	7.72E-07	8.76E-07	0.53%
229	2	Subsurface	Nickel	9.93E+01			7.53E-09		7.53E-09	0.00%
229	2	Subsurface	Total PAH	1.69E+00	1.54E-05	1.95E-05	3.24E-08		3.49E-05	21.34%
229	2	Subsurface	Uranium-234	1.22E+01	4.28E-06		2.07E-08	1.04E-08	4.31E-06	2.63%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
229	2	Subsurface	Uranium-235	8.40E-01	3.04E-07		1.27E-09	1.54E-06	1.85E-06	1.13%
229	2	Subsurface	Uranium-238	2.49E+01	1.16E-05		3.47E-08	9.59E-06	2.12E-05	12.97%
229	2	Subsurface	**Totals**		**7.54E-05**	**7.24E-05**	**1.30E-06**	**1.47E-05**	**1.64E-04**	
229	2	Subsurface	**Percent**		**46.03%**	**44.22%**	**0.80%**	**8.96%**		
483	1	Subsurface	Arsenic	1.25E+01	2.32E-05	6.81E-06	1.57E-08		3.00E-05	98.36%
483	1	Subsurface	Nickel	1.17E+02			8.85E-09		8.85E-09	0.03%
483	1	Subsurface	Total PAH	2.39E-02	2.17E-07	2.76E-07	4.57E-10		4.93E-07	1.61%
483	1	Subsurface	**Totals**		**2.34E-05**	**7.08E-06**	**2.50E-08**		**3.05E-05**	
483	1	Subsurface	**Percent**		**76.69%**	**23.22%**	**0.08%**			
486	1	Subsurface	Cesium-137	1.71E+00	1.64E-07		3.04E-12	1.47E-05	1.48E-05	100.00%
486	1	Subsurface	**Totals**		**1.64E-07**		**3.04E-12**	**1.47E-05**	**1.48E-05**	
486	1	Subsurface	**Percent**		**1.11%**		**0.00%**	**98.89%**		
487	1	Subsurface	Cesium-137	1.38E+00	1.33E-07		2.45E-12	1.18E-05	1.20E-05	100.00%
487	1	Subsurface	**Totals**		**1.33E-07**		**2.45E-12**	**1.18E-05**	**1.20E-05**	
487	1	Subsurface	**Percent**		**1.11%**		**0.00%**	**98.89%**		
488	1	Subsurface	Arsenic	8.89E+00	1.66E-05	4.86E-06	1.12E-08		2.14E-05	21.40%
488	1	Subsurface	Cesium-137	5.20E-01	5.00E-08		9.23E-13	4.46E-06	4.51E-06	4.51%
488	1	Subsurface	Chromium	5.31E+01			1.30E-06		1.30E-06	1.30%
488	1	Subsurface	PCB, Total	1.03E+01	2.56E-05	3.51E-05	2.90E-06		6.35E-05	63.45%
488	1	Subsurface	Total PAH	2.50E-01	2.26E-06	2.88E-06	4.78E-09		5.15E-06	5.14%
488	1	Subsurface	Uranium-235	1.49E-01	5.39E-08		2.25E-10	2.73E-07	3.28E-07	0.33%
488	1	Subsurface	Uranium-238	4.54E+00	2.12E-06		6.33E-09	1.75E-06	3.87E-06	3.87%
488	1	Subsurface	**Totals**		**4.66E-05**	**4.28E-05**	**4.22E-06**	**6.49E-06**	**1.00E-04**	
488	1	Subsurface	**Percent**		**46.56%**	**42.75%**	**4.22%**	**6.48%**		
489	1	Subsurface	Arsenic	1.00E+01	1.86E-05	5.47E-06	1.26E-08		2.41E-05	87.24%
489	1	Subsurface	Cadmium	8.70E-01	4.10E-07	1.61E-07	4.57E-10		5.72E-07	2.07%
489	1	Subsurface	Nickel	7.88E+01			5.98E-09		5.98E-09	0.02%
489	1	Subsurface	Total PAH	8.22E-02	7.45E-07	9.48E-07	1.57E-09		1.69E-06	6.13%
489	1	Subsurface	Uranium-238	1.47E+00	6.85E-07		2.05E-09	5.66E-07	1.25E-06	4.54%
489	1	Subsurface	**Totals**		**2.05E-05**	**6.58E-06**	**2.27E-08**	**5.66E-07**	**2.76E-05**	
489	1	Subsurface	**Percent**		**74.06%**	**23.81%**	**0.08%**	**2.05%**		
492	1	Subsurface	Arsenic	1.47E+01	2.74E-05	8.04E-06	1.85E-08		3.54E-05	2.73%
492	1	Subsurface	Beryllium	1.04E+01	5.55E-05	5.43E-04	7.29E-09		5.99E-04	46.20%
492	1	Subsurface	Cadmium	3.14E+00	1.48E-06	5.80E-07	1.65E-09		2.06E-06	0.16%
492	1	Subsurface	Cesium-137	3.46E-01	3.33E-08		6.14E-13	2.97E-06	3.00E-06	0.23%
492	1	Subsurface	Chromium	1.04E+03			2.55E-05		2.55E-05	1.97%
492	1	Subsurface	Cobalt-60	9.63E-03	8.62E-10		5.14E-14	4.03E-07	4.04E-07	0.03%
492	1	Subsurface	Neptunium-237	2.09E-01	7.52E-08		5.52E-10	5.62E-07	6.38E-07	0.05%
492	1	Subsurface	PCB, Total	4.41E+01	1.09E-04	1.50E-04	1.24E-05		2.72E-04	20.98%
492	1	Subsurface	Uranium-234	5.39E+01	1.89E-05		9.17E-08	4.59E-08	1.90E-05	1.47%
492	1	Subsurface	Uranium-235	5.72E+00	2.07E-06		8.62E-09	1.05E-05	1.26E-05	0.97%
492	1	Subsurface	Uranium-238	3.83E+02	1.79E-04		5.34E-07	1.48E-04	3.27E-04	25.20%
492	1	Subsurface	**Totals**		**3.93E-04**	**7.02E-04**	**3.86E-05**	**1.62E-04**	**1.30E-03**	
492	1	Subsurface	**Percent**		**30.36%**	**54.16%**	**2.98%**	**12.50%**		
493	1	Subsurface	Arsenic	1.18E+01	2.20E-05	6.45E-06	1.49E-08		2.84E-05	26.41%
493	1	Subsurface	Beryllium	9.91E-01	5.29E-06	5.18E-05	6.94E-10		5.71E-05	52.99%
493	1	Subsurface	Cesium-137	2.92E-01	2.81E-08		5.18E-13	2.51E-06	2.53E-06	2.35%
493	1	Subsurface	Chromium	6.61E+01			1.62E-06		1.62E-06	1.51%
493	1	Subsurface	Cobalt	3.79E+01			9.96E-08		9.96E-08	0.09%
493	1	Subsurface	Cobalt-60	1.36E-02	1.22E-09		7.26E-14	5.70E-07	5.71E-07	0.53%
493	1	Subsurface	Neptunium-237	1.22E-01	4.39E-08		3.22E-10	3.28E-07	3.72E-07	0.35%
493	1	Subsurface	Nickel	2.13E+02			1.62E-08		1.62E-08	0.02%
493	1	Subsurface	PCB, Total	2.60E-01	6.45E-07	8.85E-07	7.31E-08		1.60E-06	1.49%
493	1	Subsurface	Total PAH	5.00E-01	4.53E-06	5.77E-06	9.56E-09		1.03E-05	9.57%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
493	1	Subsurface	Uranium-235	1.65E-01	5.97E-08		2.49E-10	3.03E-07	3.63E-07	0.34%
493	1	Subsurface	Uranium-238	5.50E+00	2.56E-06		7.67E-09	2.12E-06	4.69E-06	4.36%
493	1	Subsurface	**Totals**		**3.51E-05**	**6.49E-05**	**1.84E-06**	**5.83E-06**	**1.08E-04**	
493	1	Subsurface	**Percent**		**32.63%**	**60.25%**	**1.71%**	**5.41%**		
517	1	Subsurface	Beryllium	7.39E-01	3.94E-06	3.86E-05	5.18E-10		4.25E-05	78.72%
517	1	Subsurface	Chromium	4.91E+01			1.20E-06		1.20E-06	2.23%
517	1	Subsurface	Cobalt-60	6.39E-03	5.72E-10		3.41E-14	2.68E-07	2.68E-07	0.50%
517	1	Subsurface	Neptunium-237	1.07E+00	3.85E-07		2.83E-09	2.88E-06	3.27E-06	6.04%
517	1	Subsurface	Nickel	1.72E+02			1.31E-08		1.31E-08	0.02%
517	1	Subsurface	PCB, Total	5.00E-01	1.24E-06	1.70E-06	1.41E-07		3.08E-06	5.70%
517	1	Subsurface	Uranium-235	1.60E-01	5.79E-08		2.41E-10	2.94E-07	3.52E-07	0.65%
517	1	Subsurface	Uranium-238	3.89E+00	1.81E-06		5.43E-09	1.50E-06	3.32E-06	6.14%
517	1	Subsurface	**Totals**		**7.44E-06**	**4.03E-05**	**1.37E-06**	**4.94E-06**	**5.41E-05**	
517	1	Subsurface	**Percent**		**13.77%**	**74.57%**	**2.53%**	**9.14%**		
518	1	Subsurface	Arsenic	6.45E+00	1.20E-05	3.53E-06	8.12E-09		1.55E-05	13.27%
518	1	Subsurface	Carbazole	1.17E+01	2.91E-07	2.85E-07			5.76E-07	0.49%
518	1	Subsurface	Cobalt	6.80E+00			1.79E-08		1.79E-08	0.02%
518	1	Subsurface	Nickel	1.29E+01			9.76E-10		9.76E-10	0.00%
518	1	Subsurface	PCB, Total	6.30E-01	1.56E-06	2.14E-06	1.77E-07		3.89E-06	3.32%
518	1	Subsurface	Total PAH	4.64E+00	4.20E-05	5.35E-05	8.87E-08		9.56E-05	81.67%
518	1	Subsurface	Uranium-235	6.74E-02	2.44E-08		1.02E-10	1.24E-07	1.48E-07	0.13%
518	1	Subsurface	Uranium-238	1.51E+00	7.06E-07		2.11E-09	5.83E-07	1.29E-06	1.10%
518	1	Subsurface	**Totals**		**5.66E-05**	**5.94E-05**	**2.95E-07**	**7.07E-07**	**1.17E-04**	
518	1	Subsurface	**Percent**		**48.36%**	**50.78%**	**0.25%**	**0.60%**		
520	1	Subsurface	Arsenic	8.83E+00	1.64E-05	4.83E-06	1.11E-08		2.13E-05	28.85%
520	1	Subsurface	Beryllium	5.77E-01	3.08E-06	3.01E-05	4.04E-10		3.32E-05	45.03%
520	1	Subsurface	Cesium-137	8.53E-01	8.20E-08		1.51E-12	7.32E-06	7.40E-06	10.04%
520	1	Subsurface	Chromium	5.95E+01			1.46E-06		1.46E-06	1.98%
520	1	Subsurface	Cobalt	1.08E+01			2.83E-08		2.83E-08	0.04%
520	1	Subsurface	Neptunium-237	5.37E-01	1.93E-07		1.42E-09	1.44E-06	1.64E-06	2.22%
520	1	Subsurface	Nickel	2.56E+02			1.94E-08		1.94E-08	0.03%
520	1	Subsurface	Thorium-230	1.02E+01	4.58E-06		4.34E-08	2.83E-08	4.65E-06	6.30%
520	1	Subsurface	Total PAH	3.18E-02	2.88E-07	3.67E-07	6.09E-10		6.56E-07	0.89%
520	1	Subsurface	Uranium-235	1.21E-01	4.38E-08		1.82E-10	2.22E-07	2.66E-07	0.36%
520	1	Subsurface	Uranium-238	3.69E+00	1.72E-06		5.14E-09	1.42E-06	3.15E-06	4.26%
520	1	Subsurface	**Totals**		**2.64E-05**	**3.53E-05**	**1.57E-06**	**1.04E-05**	**7.38E-05**	
520	1	Subsurface	**Percent**		**35.82%**	**47.90%**	**2.13%**	**14.15%**		
520	2	Subsurface	Arsenic	9.87E+00	1.84E-05	5.40E-06	1.24E-08		2.38E-05	73.91%
520	2	Subsurface	Chromium	6.67E+01			1.63E-06		1.63E-06	5.08%
520	2	Subsurface	Neptunium-237	5.90E-02	2.12E-08		1.56E-10	1.59E-07	1.80E-07	0.56%
520	2	Subsurface	Nickel	3.10E+02			2.36E-08		2.36E-08	0.07%
520	2	Subsurface	Total PAH	2.53E-01	2.29E-06	2.92E-06	4.84E-09		5.22E-06	16.20%
520	2	Subsurface	Uranium-238	1.58E+00	7.34E-07		2.20E-09	6.07E-07	1.34E-06	4.17%
520	2	Subsurface	**Totals**		**2.14E-05**	**8.32E-06**	**1.68E-06**	**7.65E-07**	**3.22E-05**	
520	2	Subsurface	**Percent**		**66.57%**	**25.84%**	**5.21%**	**2.38%**		
520	3	Subsurface	Arsenic	1.04E+01	1.94E-05	5.71E-06	1.32E-08		2.52E-05	85.38%
520	3	Subsurface	Chromium	6.57E+01			1.61E-06		1.61E-06	5.47%
520	3	Subsurface	Nickel	3.31E+02			2.51E-08		2.51E-08	0.09%
520	3	Subsurface	Total PAH	7.42E-02	6.72E-07	8.56E-07	1.42E-09		1.53E-06	5.19%
520	3	Subsurface	Uranium-238	1.34E+00	6.24E-07		1.87E-09	5.15E-07	1.14E-06	3.87%
520	3	Subsurface	**Totals**		**2.07E-05**	**6.57E-06**	**1.65E-06**	**5.15E-07**	**2.95E-05**	
520	3	Subsurface	**Percent**		**70.36%**	**22.28%**	**5.61%**	**1.75%**		
520	4	Subsurface	Arsenic	9.35E+00	1.74E-05	5.11E-06	1.18E-08		2.25E-05	26.11%
520	4	Subsurface	Beryllium	7.27E-01	3.88E-06	3.80E-05	5.09E-10		4.19E-05	48.49%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
520	4	Subsurface	Cadmium	1.17E+00	5.53E-07	2.17E-07	6.16E-10		7.71E-07	0.89%
520	4	Subsurface	Chromium	6.60E+01			1.62E-06		1.62E-06	1.88%
520	4	Subsurface	Neptunium-237	7.40E-01	2.66E-07		1.95E-09	1.99E-06	2.26E-06	2.62%
520	4	Subsurface	Nickel	2.82E+02			2.14E-08		2.14E-08	0.02%
520	4	Subsurface	Total PAH	5.52E-01	5.01E-06	6.37E-06	1.06E-08		1.14E-05	13.19%
520	4	Subsurface	Uranium-235	2.42E-01	8.76E-08		3.65E-10	4.44E-07	5.32E-07	0.62%
520	4	Subsurface	Uranium-238	6.26E+00	2.92E-06		8.73E-09	2.41E-06	5.34E-06	6.18%
520	4	Subsurface	**Totals**		**3.01E-05**	**4.97E-05**	**1.67E-06**	**4.85E-06**	**8.63E-05**	
520	4	Subsurface	**Percent**		**34.89%**	**57.55%**	**1.94%**	**5.61%**		
520	5	Subsurface	Arsenic	9.97E+00	1.86E-05	5.45E-06	1.26E-08		2.40E-05	31.90%
520	5	Subsurface	Beryllium	7.01E-01	3.74E-06	3.66E-05	4.91E-10		4.04E-05	53.61%
520	5	Subsurface	Chromium	4.94E+01			1.21E-06		1.21E-06	1.61%
520	5	Subsurface	Neptunium-237	1.55E-01	5.57E-08		4.09E-10	4.17E-07	4.73E-07	0.63%
520	5	Subsurface	Nickel	1.12E+02			8.52E-09		8.52E-09	0.01%
520	5	Subsurface	Total PAH	3.87E-01	3.51E-06	4.47E-06	7.40E-09		7.98E-06	10.60%
520	5	Subsurface	Uranium-238	1.45E+00	6.76E-07		2.02E-09	5.59E-07	1.24E-06	1.64%
520	5	Subsurface	**Totals**		**2.65E-05**	**4.65E-05**	**1.24E-06**	**9.75E-07**	**7.53E-05**	
520	5	Subsurface	**Percent**		**35.25%**	**61.81%**	**1.65%**	**1.30%**		
531	1	Subsurface	Arsenic	4.68E+01	8.72E-05	2.56E-05	5.90E-08		1.13E-04	93.59%
531	1	Subsurface	Cadmium	3.10E+00	1.46E-06	5.73E-07	1.63E-09		2.04E-06	1.69%
531	1	Subsurface	Chromium	5.33E+01			1.31E-06		1.31E-06	1.08%
531	1	Subsurface	Nickel	1.62E+02			1.23E-08		1.23E-08	0.01%
531	1	Subsurface	Total PAH	5.34E-02	4.84E-07	6.16E-07	1.02E-09		1.10E-06	0.91%
531	1	Subsurface	Uranium-235	1.38E-01	4.99E-08		2.08E-10	2.53E-07	3.03E-07	0.25%
531	1	Subsurface	Uranium-238	3.48E+00	1.62E-06		4.85E-09	1.34E-06	2.97E-06	2.46%
531	1	Subsurface	**Totals**		**9.08E-05**	**2.68E-05**	**1.39E-06**	**1.59E-06**	**1.21E-04**	
531	1	Subsurface	**Percent**		**75.30%**	**22.22%**	**1.15%**	**1.32%**		
541	1	Subsurface	Americium-241	7.53E+00	3.63E-06		3.16E-08	7.02E-07	4.36E-06	0.27%
541	1	Subsurface	Arsenic	9.08E+00	1.69E-05	4.97E-06	1.14E-08		2.19E-05	1.37%
541	1	Subsurface	Beryllium	7.40E-01	3.95E-06	3.87E-05	5.19E-10		4.26E-05	2.67%
541	1	Subsurface	Cadmium	1.60E+00	7.53E-07	2.95E-07	8.39E-10		1.05E-06	0.07%
541	1	Subsurface	Cesium-137	9.72E-01	9.34E-08		1.73E-12	8.34E-06	8.44E-06	0.53%
541	1	Subsurface	Chromium	9.44E+02			2.32E-05		2.32E-05	1.45%
541	1	Subsurface	Cobalt-60	1.01E-02	9.04E-10		5.39E-14	4.23E-07	4.24E-07	0.03%
541	1	Subsurface	Naphthalene	6.53E-01			2.16E-07		2.16E-07	0.01%
541	1	Subsurface	Neptunium-237	5.69E-02	2.05E-08		1.50E-10	1.53E-07	1.74E-07	0.01%
541	1	Subsurface	Nickel	1.58E+01			1.20E-09		1.20E-09	0.00%
541	1	Subsurface	PCB, Total	6.18E+01	1.53E-04	2.10E-04	1.74E-05		3.81E-04	23.88%
541	1	Subsurface	Total PAH	3.15E+00	2.86E-05	3.64E-05	6.03E-08		6.50E-05	4.07%
541	1	Subsurface	Uranium-234	1.44E+02	5.06E-05		2.45E-07	1.23E-07	5.10E-05	3.19%
541	1	Subsurface	Uranium-235	2.26E+01	8.16E-06		3.40E-08	4.14E-05	4.96E-05	3.11%
541	1	Subsurface	Uranium-238	1.11E+03	5.18E-04		1.55E-06	4.28E-04	9.47E-04	59.35%
541	1	Subsurface	**Totals**		**7.84E-04**	**2.91E-04**	**4.27E-05**	**4.79E-04**	**1.60E-03**	
541	1	Subsurface	**Percent**		**49.11%**	**18.20%**	**2.67%**	**30.01%**		
561	1	Subsurface	Arsenic	1.63E+01	3.04E-05	8.94E-06	2.06E-08		3.94E-05	18.82%
561	1	Subsurface	Beryllium	6.74E-01	3.60E-06	3.52E-05	4.72E-10		3.88E-05	18.54%
561	1	Subsurface	Cesium-137	2.53E-01	2.43E-08		4.49E-13	2.17E-06	2.20E-06	1.05%
561	1	Subsurface	Chromium	9.00E+01			2.21E-06		2.21E-06	1.05%
561	1	Subsurface	Cobalt	1.10E+01			2.90E-08		2.90E-08	0.01%
561	1	Subsurface	Cobalt-60	6.98E-02	6.24E-09		3.73E-13	2.92E-06	2.93E-06	1.40%
561	1	Subsurface	Neptunium-237	2.61E-02	9.39E-09		6.89E-11	7.02E-08	7.97E-08	0.04%
561	1	Subsurface	Nickel	1.49E+01			1.13E-09		1.13E-09	0.00%
561	1	Subsurface	PCB, Total	1.01E+00	2.50E-06	3.43E-06	2.84E-07		6.22E-06	2.97%
561	1	Subsurface	Total PAH	7.79E-01	7.06E-06	8.99E-06	1.49E-08		1.61E-05	7.67%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
561	1	Subsurface	Uranium-234	8.48E+00	2.97E-06		1.44E-08	7.22E-09	2.99E-06	1.43%
561	1	Subsurface	Uranium-235	1.43E+00	5.16E-07		2.15E-09	2.62E-06	3.14E-06	1.50%
561	1	Subsurface	Uranium-238	1.12E+02	5.21E-05		1.56E-07	4.30E-05	9.53E-05	45.51%
561	1	Subsurface	**Totals**		**9.92E-05**	**5.66E-05**	**2.73E-06**	**5.08E-05**	**2.09E-04**	
561	1	Subsurface	**Percent**		**47.39%**	**27.02%**	**1.30%**	**24.28%**		
561	2	Subsurface	Arsenic	1.27E+01	2.36E-05	6.94E-06	1.60E-08		3.06E-05	5.57%
561	2	Subsurface	Beryllium	6.21E-01	3.31E-06	3.24E-05	4.35E-10		3.58E-05	6.51%
561	2	Subsurface	Cadmium	3.95E-01	1.86E-07	7.30E-08	2.08E-10		2.59E-07	0.05%
561	2	Subsurface	Cesium-137	4.02E-01	3.86E-08		7.14E-13	3.45E-06	3.49E-06	0.64%
561	2	Subsurface	Chromium	3.07E+02			7.52E-06		7.52E-06	1.37%
561	2	Subsurface	Cobalt	1.09E+01			2.86E-08		2.86E-08	0.01%
561	2	Subsurface	Cobalt-60	3.02E-02	2.70E-09		1.61E-13	1.27E-06	1.27E-06	0.23%
561	2	Subsurface	Neptunium-237	4.76E-02	1.71E-08		1.26E-10	1.28E-07	1.45E-07	0.03%
561	2	Subsurface	PCB, Total	1.66E+01	4.13E-05	5.66E-05	4.67E-06		1.02E-04	18.67%
561	2	Subsurface	Total PAH	4.60E-01	4.17E-06	5.31E-06	8.80E-09		9.48E-06	1.73%
561	2	Subsurface	Uranium-234	3.92E+01	1.38E-05		6.67E-08	3.34E-08	1.39E-05	2.52%
561	2	Subsurface	Uranium-235	6.79E+00	2.46E-06		1.02E-08	1.25E-05	1.49E-05	2.72%
561	2	Subsurface	Uranium-238	3.86E+02	1.80E-04		5.38E-07	1.49E-04	3.29E-04	59.96%
561	2	Subsurface	**Totals**		**2.69E-04**	**1.01E-04**	**1.29E-05**	**1.66E-04**	**5.49E-04**	
561	2	Subsurface	**Percent**		**48.96%**	**18.46%**	**2.34%**	**30.24%**		
562	1	Subsurface	Arsenic	1.18E+01	2.20E-05	6.45E-06	1.49E-08		2.84E-05	31.09%
562	1	Subsurface	Cesium-137	4.52E-01	4.34E-08		8.02E-13	3.88E-06	3.92E-06	4.29%
562	1	Subsurface	Chromium	3.15E+02			7.72E-06		7.72E-06	8.44%
562	1	Subsurface	PCB, Total	2.01E+00	4.99E-06	6.84E-06	5.65E-07		1.24E-05	13.55%
562	1	Subsurface	Uranium-235	5.91E-01	2.14E-07		8.91E-10	1.08E-06	1.30E-06	1.42%
562	1	Subsurface	Uranium-238	4.42E+01	2.06E-05		6.17E-08	1.70E-05	3.77E-05	41.21%
562	1	Subsurface	**Totals**		**4.78E-05**	**1.33E-05**	**8.37E-06**	**2.20E-05**	**9.15E-05**	
562	1	Subsurface	**Percent**		**52.28%**	**14.53%**	**9.15%**	**24.04%**		
562	2	Subsurface	Cesium-137	3.58E-01	3.44E-08		6.36E-13	3.07E-06	3.11E-06	0.57%
562	2	Subsurface	PCB, Total	1.58E+00	3.92E-06	5.38E-06	4.44E-07		9.74E-06	1.78%
562	2	Subsurface	Uranium-234	5.34E+01	1.87E-05		9.08E-08	4.55E-08	1.89E-05	3.45%
562	2	Subsurface	Uranium-235	8.96E+00	3.24E-06		1.35E-08	1.64E-05	1.97E-05	3.60%
562	2	Subsurface	Uranium-238	5.81E+02	2.71E-04		8.10E-07	2.24E-04	4.95E-04	90.60%
562	2	Subsurface	**Totals**		**2.97E-04**	**5.38E-06**	**1.36E-06**	**2.43E-04**	**5.47E-04**	
562	2	Subsurface	**Percent**		**54.27%**	**0.98%**	**0.25%**	**44.50%**		
562	3	Subsurface	PCB, Total	2.40E-01	5.96E-07	8.17E-07	6.75E-08		1.48E-06	9.45%
562	3	Subsurface	Total PAH	2.20E-01	1.99E-06	2.54E-06	4.21E-09		4.54E-06	28.94%
562	3	Subsurface	Uranium-235	1.63E-01	5.90E-08		2.46E-10	2.99E-07	3.58E-07	2.29%
562	3	Subsurface	Uranium-238	1.09E+01	5.08E-06		1.52E-08	4.20E-06	9.30E-06	59.32%
562	3	Subsurface	**Totals**		**7.73E-06**	**3.35E-06**	**8.72E-08**	**4.50E-06**	**1.57E-05**	
562	3	Subsurface	**Percent**		**49.33%**	**21.41%**	**0.56%**	**28.71%**		
562	4	Subsurface	Cesium-137	4.91E-01	4.72E-08		8.72E-13	4.21E-06	4.26E-06	57.05%
562	4	Subsurface	Chromium	4.67E+01			1.14E-06		1.14E-06	15.32%
562	4	Subsurface	Uranium-238	2.42E+00	1.13E-06		3.38E-09	9.32E-07	2.06E-06	27.63%
562	4	Subsurface	**Totals**		**1.18E-06**		**1.15E-06**	**5.15E-06**	**7.47E-06**	
562	4	Subsurface	**Percent**		**15.74%**		**15.37%**	**68.90%**		
562	5	Subsurface	Cesium-137	3.80E-01	3.65E-08		6.75E-13	3.26E-06	3.30E-06	4.54%
562	5	Subsurface	Chromium	1.53E+02			3.76E-06		3.76E-06	5.17%
562	5	Subsurface	PCB, Total	9.50E-01	2.36E-06	3.23E-06	2.67E-07		5.86E-06	8.06%
562	5	Subsurface	Total PAH	7.05E-02	6.39E-07	8.13E-07	1.35E-09		1.45E-06	2.00%
562	5	Subsurface	Uranium-234	8.57E+00	3.01E-06		1.46E-08	7.30E-09	3.03E-06	4.17%
562	5	Subsurface	Uranium-235	9.50E-01	3.44E-07		1.43E-09	1.74E-06	2.09E-06	2.87%
562	5	Subsurface	Uranium-238	6.24E+01	2.91E-05		8.70E-08	2.40E-05	5.32E-05	73.20%
562	5	Subsurface	**Totals**		**3.55E-05**	**4.05E-06**	**4.13E-06**	**2.90E-05**	**7.27E-05**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.31. ELCR for the Excavation Worker/Outdoor Worker Exposed to Subsurface Soils (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
562	5	Subsurface	**Percent**		**48.80%**	**5.57%**	**5.68%**	**39.96%**		
563	1	Subsurface	Cadmium	8.96E-01	4.23E-07	1.66E-07	4.71E-10		5.89E-07	1.64%
563	1	Subsurface	Cesium-137	2.88E-01	2.77E-08		5.11E-13	2.47E-06	2.50E-06	6.94%
563	1	Subsurface	Chromium	3.34E+02			8.19E-06		8.19E-06	22.75%
563	1	Subsurface	Neptunium-237	1.20E-01	4.32E-08		3.17E-10	3.23E-07	3.66E-07	1.02%
563	1	Subsurface	PCB, Total	3.54E+00	8.79E-06	1.20E-05	9.96E-07		2.18E-05	60.64%
563	1	Subsurface	Uranium-238	2.96E+00	1.38E-06		4.13E-09	1.14E-06	2.52E-06	7.01%
563	1	Subsurface	**Totals**		**1.07E-05**	**1.22E-05**	**9.19E-06**	**3.93E-06**	**3.60E-05**	
563	1	Subsurface	**Percent**		**29.62%**	**33.92%**	**25.53%**	**10.93%**		
563	2	Subsurface	Cesium-137	6.47E-01	6.22E-08		1.15E-12	5.55E-06	5.62E-06	81.55%
563	2	Subsurface	Uranium-238	1.49E+00	6.95E-07		2.08E-09	5.74E-07	1.27E-06	18.45%
563	2	Subsurface	**Totals**		**7.57E-07**		**2.08E-09**	**6.13E-06**	**6.89E-06**	
563	2	Subsurface	**Percent**		**10.99%**		**0.03%**	**88.98%**		
564	1	Subsurface	Arsenic	4.30E+01	8.01E-05	2.35E-05	5.42E-08		1.04E-04	39.99%
564	1	Subsurface	Beryllium	2.12E+00	1.13E-05	1.11E-04	1.49E-09		1.22E-04	47.10%
564	1	Subsurface	Cadmium	1.96E+00	9.24E-07	3.62E-07	1.03E-09		1.29E-06	0.50%
564	1	Subsurface	Cesium-137	6.20E-01	5.96E-08		1.10E-12	5.32E-06	5.38E-06	2.08%
564	1	Subsurface	Chromium	8.32E+01			2.04E-06		2.04E-06	0.79%
564	1	Subsurface	Nickel	2.24E+01			1.70E-09		1.70E-09	0.00%
564	1	Subsurface	PCB, Total	1.93E+00	4.79E-06	6.57E-06	5.43E-07		1.19E-05	4.59%
564	1	Subsurface	Thorium-230	5.01E+00	2.25E-06		2.13E-08	1.39E-08	2.28E-06	0.88%
564	1	Subsurface	Uranium-234	6.93E+00	2.43E-06		1.18E-08	5.90E-09	2.45E-06	0.94%
564	1	Subsurface	Uranium-235	3.87E-01	1.40E-07		5.83E-10	7.10E-07	8.51E-07	0.33%
564	1	Subsurface	Uranium-238	8.54E+00	3.98E-06		1.19E-08	3.29E-06	7.28E-06	2.81%
564	1	Subsurface	**Totals**		**1.06E-04**	**1.41E-04**	**2.69E-06**	**9.34E-06**	**2.59E-04**	
564	1	Subsurface	**Percent**		**40.88%**	**54.48%**	**1.04%**	**3.60%**		
565	1	Subsurface	Cesium-137	4.00E-01	3.85E-08		7.10E-13	3.43E-06	3.47E-06	100.00%
565	1	Subsurface	**Totals**		**3.85E-08**		**7.10E-13**	**3.43E-06**	**3.47E-06**	
565	1	Subsurface	**Percent**		**1.11%**		**0.00%**	**98.89%**		
567	3	Subsurface	Chromium	5.21E+01			1.28E-06		1.28E-06	46.56%
567	3	Subsurface	Uranium-238	1.72E+00	8.02E-07		2.40E-09	6.63E-07	1.47E-06	53.44%
567	3	Subsurface	**Totals**		**8.02E-07**		**1.28E-06**	**6.63E-07**	**2.74E-06**	
567	3	Subsurface	**Percent**		**29.22%**		**46.64%**	**24.14%**		
567	4	Subsurface	Arsenic	1.09E+01	2.03E-05	5.96E-06	1.37E-08		2.62E-05	96.60%
567	4	Subsurface	Uranium-238	1.08E+00	5.04E-07		1.51E-09	4.17E-07	9.23E-07	3.40%
567	4	Subsurface	**Totals**		**2.08E-05**	**5.96E-06**	**1.52E-08**	**4.17E-07**	**2.72E-05**	
567	4	Subsurface	**Percent**		**76.49%**	**21.92%**	**0.06%**	**1.53%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
1	1	Surface	Beryllium		2.62E-05	7.05E-04	7.16E-09		7.31E-04	91.43%
1	1	Surface	Cadmium		6.54E-07	7.04E-07	1.52E-09		1.36E-06	0.17%
1	1	Surface	Cesium-137		3.22E-08		1.59E-12	3.45E-05	3.46E-05	4.32%
1	1	Surface	Chromium				8.25E-07		8.25E-07	0.10%
1	1	Surface	Neptunium-237		8.21E-08		1.61E-09	7.36E-06	7.45E-06	0.93%
1	1	Surface	PCB, Total		5.51E-07	2.08E-06	1.31E-07		2.76E-06	0.34%
1	1	Surface	Plutonium-239/240		2.14E-06		4.62E-08	2.83E-08	2.21E-06	0.28%
1	1	Surface	Thorium-230		1.12E-05		2.83E-07	8.30E-07	1.23E-05	1.54%
1	1	Surface	Uranium-235		2.18E-08		2.42E-10	1.32E-06	1.35E-06	0.17%
1	1	Surface	Uranium-238		5.22E-07		4.17E-09	5.18E-06	5.71E-06	0.71%
1	1	Surface	**Totals**		**4.14E-05**	**7.08E-04**	**1.30E-06**	**4.93E-05**	**8.00E-04**	
1	1	Surface	**Percent**		**5.18%**	**88.50%**	**0.16%**	**6.16%**		
1	2	Surface	Beryllium		5.54E-05	1.49E-03	1.51E-08		1.54E-03	74.61%
1	2	Surface	Cadmium		3.84E-06	4.14E-06	8.90E-09		7.99E-06	0.39%
1	2	Surface	Chromium				1.29E-05		1.29E-05	0.62%
1	2	Surface	Nickel				1.14E-08		1.14E-08	0.00%
1	2	Surface	PCB, Total		1.01E-04	3.80E-04	2.39E-05		5.05E-04	24.38%
1	2	Surface	**Totals**		**1.60E-04**	**1.87E-03**	**3.69E-05**		**2.07E-03**	
1	2	Surface	**Percent**		**7.73%**	**90.48%**	**1.78%**			
1	3	Surface	Chromium				9.31E-07		9.31E-07	9.97%
1	3	Surface	PCB, Total		6.79E-07	2.56E-06	1.61E-07		3.40E-06	36.43%
1	3	Surface	Uranium-238		4.58E-07		3.65E-09	4.54E-06	5.00E-06	53.59%
1	3	Surface	**Totals**		**1.14E-06**	**2.56E-06**	**1.10E-06**	**4.54E-06**	**9.33E-06**	
1	3	Surface	**Percent**		**12.19%**	**27.42%**	**11.74%**	**48.65%**		
1	4	Surface	Beryllium		4.88E-06	1.31E-04	1.33E-09		1.36E-04	89.65%
1	4	Surface	Chromium				5.98E-06		5.98E-06	3.94%
1	4	Surface	Cobalt-60		1.12E-09		1.78E-13	6.28E-06	6.28E-06	4.14%
1	4	Surface	Nickel				9.33E-09		9.33E-09	0.01%
1	4	Surface	PCB, Total		4.07E-07	1.53E-06	9.66E-08		2.04E-06	1.34%
1	4	Surface	Thorium-230		1.28E-06		3.24E-08	9.48E-08	1.41E-06	0.93%
1	4	Surface	**Totals**		**6.57E-06**	**1.33E-04**	**6.12E-06**	**6.37E-06**	**1.52E-04**	
1	4	Surface	**Percent**		**4.33%**	**87.44%**	**4.03%**	**4.20%**		
1	5	Surface	Beryllium		5.59E-05	1.50E-03	1.53E-08		1.56E-03	99.31%
1	5	Surface	Cadmium		7.14E-07	7.68E-07	1.65E-09		1.48E-06	0.09%
1	5	Surface	Nickel				8.10E-09		8.10E-09	0.00%
1	5	Surface	PCB, Total		8.45E-07	3.18E-06	2.01E-07		4.23E-06	0.27%
1	5	Surface	Total PAH		1.12E-06	3.93E-06	4.95E-09		5.06E-06	0.32%
1	5	Surface	**Totals**		**5.86E-05**	**1.51E-03**	**2.31E-07**		**1.57E-03**	
1	5	Surface	**Percent**		**3.73%**	**96.25%**	**0.01%**			
12	1	Surface	Arsenic		3.14E-05	2.54E-05	4.42E-08		5.69E-05	3.66%
12	1	Surface	Beryllium		4.52E-05	1.22E-03	1.23E-08		1.26E-03	81.16%
12	1	Surface	Cadmium		6.07E-07	6.53E-07	1.41E-09		1.26E-06	0.08%
12	1	Surface	Chromium				4.07E-06		4.07E-06	0.26%
12	1	Surface	Cobalt				6.31E-08		6.31E-08	0.00%
12	1	Surface	Nickel				1.54E-08		1.54E-08	0.00%
12	1	Surface	PCB, Total		1.22E-06	4.60E-06	2.90E-07		6.11E-06	0.39%
12	1	Surface	Total PAH		1.94E-06	6.79E-06	8.56E-09		8.75E-06	0.56%
12	1	Surface	Uranium-234		2.99E-06		3.86E-08	8.71E-08	3.12E-06	0.20%
12	1	Surface	Uranium-235		3.13E-07		3.48E-09	1.91E-05	1.94E-05	1.25%
12	1	Surface	Uranium-238		1.77E-05		1.41E-07	1.75E-04	1.93E-04	12.43%
12	1	Surface	**Totals**		**1.01E-04**	**1.25E-03**	**4.69E-06**	**1.95E-04**	**1.55E-03**	
12	1	Surface	**Percent**		**6.53%**	**80.66%**	**0.30%**	**12.51%**		
13	1	Surface	PCB, Total		2.19E-06	8.25E-06	5.20E-07		1.10E-05	100.00%
13	1	Surface	**Totals**		**2.19E-06**	**8.25E-06**	**5.20E-07**		**1.10E-05**	
13	1	Surface	**Percent**		**19.99%**	**75.27%**	**4.74%**			
13	4	Surface	Uranium-238		3.49E-07		2.79E-09	3.46E-06	3.82E-06	100.00%
13	4	Surface	**Totals**		**3.49E-07**		**2.79E-09**	**3.46E-06**	**3.82E-06**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
13	4	Surface	**Percent**		**9.15%**		**0.07%**	**90.77%**		
13	5	Surface	Cadmium		7.14E-07	7.68E-07	1.65E-09		1.48E-06	6.64%
13	5	Surface	Chromium				9.71E-07		9.71E-07	4.35%
13	5	Surface	Nickel				2.32E-08		2.32E-08	0.10%
13	5	Surface	PCB, Total		3.28E-06	1.24E-05	7.79E-07		1.64E-05	73.59%
13	5	Surface	Total PAH		7.60E-07	2.66E-06	3.35E-09		3.42E-06	15.31%
13	5	Surface	**Totals**		**4.76E-06**	**1.58E-05**	**1.78E-06**		**2.23E-05**	
13	5	Surface	**Percent**		**21.31%**	**70.73%**	**7.96%**			
13	6	Surface	Uranium-238		3.48E-07		2.78E-09	3.45E-06	3.80E-06	100.00%
13	6	Surface	**Totals**		**3.48E-07**		**2.78E-09**	**3.45E-06**	**3.80E-06**	
13	6	Surface	**Percent**		**9.15%**		**0.07%**	**90.77%**		
13	9	Surface	Neptunium-237		1.82E-07		3.56E-09	1.63E-05	1.65E-05	43.38%
13	9	Surface	Uranium-235		6.39E-08		7.09E-10	3.89E-06	3.95E-06	10.39%
13	9	Surface	Uranium-238		1.61E-06		1.28E-08	1.60E-05	1.76E-05	46.23%
13	9	Surface	**Totals**		**1.85E-06**		**1.71E-08**	**3.61E-05**	**3.80E-05**	
13	9	Surface	**Percent**		**4.88%**		**0.04%**	**95.08%**		
13	11	Surface	Cobalt-60		6.60E-10		1.05E-13	3.71E-06	3.71E-06	100.00%
13	11	Surface	**Totals**		**6.60E-10**		**1.05E-13**	**3.71E-06**	**3.71E-06**	
13	11	Surface	**Percent**		**0.02%**		**0.00%**	**99.98%**		
14	1	Surface	Americium-241		3.46E-07		8.04E-09	8.05E-07	1.16E-06	1.58%
14	1	Surface	Arsenic		2.58E-05	2.08E-05	3.63E-08		4.66E-05	63.64%
14	1	Surface	Chromium				4.09E-06		4.09E-06	5.58%
14	1	Surface	Neptunium-237		4.37E-08		8.55E-10	3.92E-06	3.96E-06	5.41%
14	1	Surface	Nickel				2.78E-08		2.78E-08	0.04%
14	1	Surface	PCB, Total		1.57E-06	5.90E-06	3.71E-07		7.83E-06	10.69%
14	1	Surface	Technetium-99		3.92E-06		1.29E-09	7.61E-07	4.68E-06	6.39%
14	1	Surface	Uranium-238		4.47E-07		3.57E-09	4.43E-06	4.88E-06	6.67%
14	1	Surface	**Totals**		**3.21E-05**	**2.67E-05**	**4.54E-06**	**9.92E-06**	**7.33E-05**	
14	1	Surface	**Percent**		**43.82%**	**36.45%**	**6.19%**	**13.54%**		
14	2	Surface	Arsenic		3.41E-05	2.75E-05	4.80E-08		6.17E-05	14.25%
14	2	Surface	Beryllium		4.78E-06	1.29E-04	1.30E-09		1.33E-04	30.77%
14	2	Surface	Chromium				4.28E-06		4.28E-06	0.99%
14	2	Surface	Neptunium-237		1.57E-07		3.08E-09	1.41E-05	1.43E-05	3.29%
14	2	Surface	Nickel				1.35E-07		1.35E-07	0.03%
14	2	Surface	PCB, Total		1.22E-06	4.60E-06	2.90E-07		6.11E-06	1.41%
14	2	Surface	Thorium-230		1.52E-06		3.85E-08	1.13E-07	1.67E-06	0.39%
14	2	Surface	Total PAH		3.86E-06	1.35E-05	1.70E-08		1.74E-05	4.02%
14	2	Surface	Uranium-234		6.45E-06		8.34E-08	1.88E-07	6.72E-06	1.55%
14	2	Surface	Uranium-235		4.11E-07		4.56E-09	2.50E-05	2.54E-05	5.87%
14	2	Surface	Uranium-238		1.48E-05		1.18E-07	1.47E-04	1.62E-04	37.44%
14	2	Surface	**Totals**		**6.74E-05**	**1.74E-04**	**5.02E-06**	**1.87E-04**	**4.33E-04**	
14	2	Surface	**Percent**		**15.55%**	**40.21%**	**1.16%**	**43.08%**		
14	3	Surface	Arsenic		3.05E-05	2.46E-05	4.28E-08		5.51E-05	27.61%
14	3	Surface	Chromium				4.51E-06		4.51E-06	2.26%
14	3	Surface	Nickel				1.15E-07		1.15E-07	0.06%
14	3	Surface	PCB, Total		2.71E-05	1.02E-04	6.42E-06		1.35E-04	67.90%
14	3	Surface	Uranium-238		3.97E-07		3.17E-09	3.94E-06	4.34E-06	2.17%
14	3	Surface	**Totals**		**5.79E-05**	**1.27E-04**	**1.11E-05**	**3.94E-06**	**1.99E-04**	
14	3	Surface	**Percent**		**29.04%**	**63.43%**	**5.56%**	**1.97%**		
14	4	Surface	Arsenic		3.12E-05	2.52E-05	4.39E-08		5.64E-05	6.69%
14	4	Surface	Chromium				4.63E-06		4.63E-06	0.55%
14	4	Surface	Neptunium-237		5.47E-07		1.07E-08	4.91E-05	4.97E-05	5.89%
14	4	Surface	Nickel				1.45E-07		1.45E-07	0.02%
14	4	Surface	PCB, Total		2.07E-05	7.79E-05	4.91E-06		1.04E-04	12.28%
14	4	Surface	Thorium-230		2.12E-06		5.36E-08	1.57E-07	2.33E-06	0.28%
14	4	Surface	Total PAH		2.87E-06	1.00E-05	1.26E-08		1.29E-05	1.53%
14	4	Surface	Uranium-234		2.25E-05		2.91E-07	6.55E-07	2.34E-05	2.78%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
14	4	Surface	Uranium-235		1.64E-06		1.82E-08	1.00E-04	1.02E-04	12.05%
14	4	Surface	Uranium-238		4.47E-05		3.57E-07	4.43E-04	4.88E-04	57.94%
14	4	Surface	**Totals**		**1.26E-04**	**1.13E-04**	**1.05E-05**	**5.93E-04**	**8.43E-04**	
14	4	Surface	**Percent**		**14.98%**	**13.41%**	**1.24%**	**70.37%**		
14	5	Surface	Arsenic		3.07E-05	2.48E-05	4.32E-08		5.55E-05	12.39%
14	5	Surface	Cadmium		2.32E-06	2.50E-06	5.37E-09		4.82E-06	1.08%
14	5	Surface	Chromium				3.02E-06		3.02E-06	0.67%
14	5	Surface	Cobalt				9.65E-08		9.65E-08	0.02%
14	5	Surface	Neptunium-237		3.55E-07		6.95E-09	3.19E-05	3.22E-05	7.19%
14	5	Surface	Nickel				9.18E-08		9.18E-08	0.02%
14	5	Surface	PCB, Total		3.13E-06	1.18E-05	7.43E-07		1.57E-05	3.50%
14	5	Surface	Technetium-99		9.75E-07		3.21E-10	1.89E-07	1.16E-06	0.26%
14	5	Surface	Thorium-230		3.54E-06		8.94E-08	2.62E-07	3.89E-06	0.87%
14	5	Surface	Total PAH		1.38E-06	4.83E-06	6.09E-09		6.22E-06	1.39%
14	5	Surface	Uranium-234		1.04E-05		1.34E-07	3.03E-07	1.08E-05	2.42%
14	5	Surface	Uranium-235		6.84E-07		7.59E-09	4.16E-05	4.23E-05	9.44%
14	5	Surface	Uranium-238		2.49E-05		1.99E-07	2.47E-04	2.72E-04	60.75%
14	5	Surface	**Totals**		**7.84E-05**	**4.39E-05**	**4.44E-06**	**3.21E-04**	**4.48E-04**	
14	5	Surface	**Percent**		**17.50%**	**9.80%**	**0.99%**	**71.71%**		
14	6	Surface	Cadmium		5.00E-07	5.38E-07	1.16E-09		1.04E-06	0.31%
14	6	Surface	Chromium				2.87E-05		2.87E-05	8.43%
14	6	Surface	Neptunium-237		5.41E-07		1.06E-08	4.85E-05	4.91E-05	14.44%
14	6	Surface	Nickel				1.92E-07		1.92E-07	0.06%
14	6	Surface	PCB, Total		1.57E-05	5.90E-05	3.71E-06		7.83E-05	23.03%
14	6	Surface	Uranium-234		6.79E-06		8.77E-08	1.98E-07	7.07E-06	2.08%
14	6	Surface	Uranium-235		4.66E-07		5.17E-09	2.84E-05	2.88E-05	8.48%
14	6	Surface	Uranium-238		1.34E-05		1.07E-07	1.33E-04	1.47E-04	43.17%
14	6	Surface	**Totals**		**3.74E-05**	**5.95E-05**	**3.28E-05**	**2.10E-04**	**3.40E-04**	
14	6	Surface	**Percent**		**11.00%**	**17.50%**	**9.64%**	**61.87%**		
14	7	Surface	Arsenic		2.65E-05	2.14E-05	3.73E-08		4.80E-05	17.01%
14	7	Surface	Cadmium		1.61E-06	1.73E-06	3.72E-09		3.34E-06	1.18%
14	7	Surface	Chromium				4.15E-06		4.15E-06	1.47%
14	7	Surface	Neptunium-237		3.04E-07		5.95E-09	2.73E-05	2.76E-05	9.79%
14	7	Surface	Nickel				2.43E-07		2.43E-07	0.09%
14	7	Surface	PCB, Total		2.38E-05	8.97E-05	5.65E-06		1.19E-04	42.23%
14	7	Surface	Total PAH		7.22E-07	2.52E-06	3.18E-09		3.25E-06	1.15%
14	7	Surface	Uranium-234		2.55E-06		3.29E-08	7.42E-08	2.66E-06	0.94%
14	7	Surface	Uranium-235		1.97E-07		2.19E-09	1.20E-05	1.22E-05	4.32%
14	7	Surface	Uranium-238		5.64E-06		4.50E-08	5.59E-05	6.16E-05	21.82%
14	7	Surface	**Totals**		**6.14E-05**	**1.15E-04**	**1.02E-05**	**9.52E-05**	**2.82E-04**	
14	7	Surface	**Percent**		**21.75%**	**40.88%**	**3.61%**	**33.76%**		
14	8	Surface	Arsenic		2.67E-05	2.16E-05	3.76E-08		4.83E-05	28.53%
14	8	Surface	Chromium				2.96E-06		2.96E-06	1.75%
14	8	Surface	Neptunium-237		1.80E-07		3.52E-09	1.61E-05	1.63E-05	9.62%
14	8	Surface	Nickel				1.34E-07		1.34E-07	0.08%
14	8	Surface	PCB, Total		1.57E-05	5.90E-05	3.71E-06		7.83E-05	46.23%
14	8	Surface	Total PAH		7.17E-07	2.51E-06	3.16E-09		3.23E-06	1.91%
14	8	Surface	Uranium-235		4.89E-08		5.43E-10	2.97E-06	3.02E-06	1.78%
14	8	Surface	Uranium-238		1.57E-06		1.25E-08	1.55E-05	1.71E-05	10.10%
14	8	Surface	**Totals**		**4.49E-05**	**8.30E-05**	**6.87E-06**	**3.46E-05**	**1.69E-04**	
14	8	Surface	**Percent**		**26.50%**	**49.01%**	**4.05%**	**20.44%**		
14	9	Surface	Arsenic		3.30E-05	2.66E-05	4.64E-08		5.96E-05	1.25%
14	9	Surface	Cadmium		5.59E-07	6.02E-07	1.30E-09		1.16E-06	0.02%
14	9	Surface	Cesium-137		2.47E-08		1.22E-12	2.65E-05	2.65E-05	0.56%
14	9	Surface	Chromium				2.99E-06		2.99E-06	0.06%
14	9	Surface	Neptunium-237		2.23E-06		4.37E-08	2.00E-04	2.03E-04	4.25%
14	9	Surface	Nickel				1.88E-07		1.88E-07	0.00%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
14	9	Surface	PCB, Total		2.14E-05	8.07E-05	5.08E-06		1.07E-04	2.25%
14	9	Surface	Technetium-99		1.89E-06		6.23E-10	3.67E-07	2.26E-06	0.05%
14	9	Surface	Total PAH		5.57E-06	1.95E-05	2.45E-08		2.51E-05	0.53%
14	9	Surface	Uranium-234		1.66E-04		2.14E-06	4.83E-06	1.73E-04	3.63%
14	9	Surface	Uranium-235		1.12E-05		1.24E-07	6.82E-04	6.93E-04	14.55%
14	9	Surface	Uranium-238		3.18E-04		2.53E-06	3.15E-03	3.47E-03	72.84%
14	9	Surface	**Totals**		**5.59E-04**	**1.27E-04**	**1.32E-05**	**4.06E-03**	**4.76E-03**	
14	9	Surface	**Percent**		**11.74%**	**2.68%**	**0.28%**	**85.31%**		
14	10	Surface	Arsenic		2.64E-05	2.13E-05	3.71E-08		4.77E-05	11.76%
14	10	Surface	Chromium				2.69E-06		2.69E-06	0.66%
14	10	Surface	Neptunium-237		5.39E-07		1.05E-08	4.84E-05	4.89E-05	12.05%
14	10	Surface	Nickel				1.20E-07		1.20E-07	0.03%
14	10	Surface	PCB, Total		2.94E-05	1.11E-04	6.97E-06		1.47E-04	36.20%
14	10	Surface	Total PAH		3.10E-06	1.09E-05	1.37E-08		1.40E-05	3.44%
14	10	Surface	Uranium-234		4.82E-06		6.23E-08	1.40E-07	5.02E-06	1.24%
14	10	Surface	Uranium-235		3.61E-07		4.01E-09	2.20E-05	2.24E-05	5.51%
14	10	Surface	Uranium-238		1.08E-05		8.63E-08	1.07E-04	1.18E-04	29.12%
14	10	Surface	**Totals**		**7.54E-05**	**1.43E-04**	**9.99E-06**	**1.78E-04**	**4.06E-04**	
14	10	Surface	**Percent**		**18.58%**	**35.17%**	**2.46%**	**43.80%**		
15	1	Surface	Arsenic		2.90E-05	2.34E-05	4.09E-08		5.25E-05	34.81%
15	1	Surface	Chromium				3.61E-06		3.61E-06	2.39%
15	1	Surface	Nickel				2.64E-08		2.64E-08	0.02%
15	1	Surface	PCB, Total		2.44E-07	9.20E-07	5.79E-08		1.22E-06	0.81%
15	1	Surface	Total PAH		1.96E-05	6.85E-05	8.63E-08		8.82E-05	58.43%
15	1	Surface	Uranium-238		4.90E-07		3.90E-09	4.85E-06	5.35E-06	3.54%
15	1	Surface	**Totals**		**4.94E-05**	**9.29E-05**	**3.82E-06**	**4.85E-06**	**1.51E-04**	
15	1	Surface	**Percent**		**32.71%**	**61.54%**	**2.53%**	**3.22%**		
15	2	Surface	Arsenic		3.82E-05	3.08E-05	5.37E-08		6.91E-05	30.00%
15	2	Surface	Chromium				3.79E-06		3.79E-06	1.65%
15	2	Surface	Neptunium-237		2.76E-08		5.39E-10	2.47E-06	2.50E-06	1.09%
15	2	Surface	Nickel				3.93E-08		3.93E-08	0.02%
15	2	Surface	PCB, Total		1.03E-06	3.89E-06	2.45E-07		5.17E-06	2.25%
15	2	Surface	Total PAH		2.41E-05	8.42E-05	1.06E-07		1.08E-04	47.12%
15	2	Surface	Uranium-234		1.30E-06		1.68E-08	3.78E-08	1.35E-06	0.59%
15	2	Surface	Uranium-235		7.80E-08		8.66E-10	4.75E-06	4.83E-06	2.10%
15	2	Surface	Uranium-238		3.20E-06		2.55E-08	3.17E-05	3.50E-05	15.20%
15	2	Surface	**Totals**		**6.79E-05**	**1.19E-04**	**4.28E-06**	**3.90E-05**	**2.30E-04**	
15	2	Surface	**Percent**		**29.51%**	**51.68%**	**1.86%**	**16.95%**		
15	3	Surface	Arsenic		6.10E-05	4.93E-05	8.58E-08		1.10E-04	12.48%
15	3	Surface	Beryllium		5.12E-06	1.38E-04	1.40E-09		1.43E-04	16.13%
15	3	Surface	Cadmium		7.08E-06	7.62E-06	1.64E-08		1.47E-05	1.66%
15	3	Surface	Chromium				4.85E-06		4.85E-06	0.55%
15	3	Surface	Cobalt				2.35E-07		2.35E-07	0.03%
15	3	Surface	Neptunium-237		8.37E-07		1.64E-08	7.51E-05	7.60E-05	8.59%
15	3	Surface	Nickel				1.51E-07		1.51E-07	0.02%
15	3	Surface	PCB, Total		2.14E-05	8.05E-05	5.07E-06		1.07E-04	12.09%
15	3	Surface	Technetium-99		3.54E-06		1.17E-09	6.88E-07	4.23E-06	0.48%
15	3	Surface	Thorium-230		1.84E-06		4.65E-08	1.36E-07	2.02E-06	0.23%
15	3	Surface	Total PAH		1.66E-05	5.81E-05	7.32E-08		7.48E-05	8.46%
15	3	Surface	Uranium-234		1.39E-05		1.79E-07	4.04E-07	1.44E-05	1.63%
15	3	Surface	Uranium-235		8.65E-07		9.60E-09	5.26E-05	5.35E-05	6.05%
15	3	Surface	Uranium-238		2.56E-05		2.04E-07	2.54E-04	2.79E-04	31.60%
15	3	Surface	**Totals**		**1.58E-04**	**3.33E-04**	**1.09E-05**	**3.83E-04**	**8.84E-04**	
15	3	Surface	**Percent**		**17.84%**	**37.66%**	**1.24%**	**43.27%**		
15	4	Surface	Arsenic		8.14E-05	6.57E-05	1.14E-07		1.47E-04	18.95%
15	4	Surface	Cadmium		8.33E-07	8.96E-07	1.93E-09		1.73E-06	0.22%
15	4	Surface	Chromium				6.57E-06		6.57E-06	0.85%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
15	4	Surface	Neptunium-237		1.63E-07		3.20E-09	1.47E-05	1.48E-05	1.91%
15	4	Surface	Nickel				2.74E-07		2.74E-07	0.04%
15	4	Surface	PCB, Total		8.37E-05	3.15E-04	1.99E-05		4.19E-04	53.90%
15	4	Surface	Total PAH		2.79E-05	9.77E-05	1.23E-07		1.26E-04	16.19%
15	4	Surface	Uranium-234		2.13E-06		2.75E-08	6.21E-08	2.22E-06	0.29%
15	4	Surface	Uranium-235		8.83E-08		9.80E-10	5.37E-06	5.46E-06	0.70%
15	4	Surface	Uranium-238		4.95E-06		3.95E-08	4.91E-05	5.40E-05	6.96%
15	4	Surface	**Totals**		**2.01E-04**	**4.79E-04**	**2.70E-05**	**6.92E-05**	**7.77E-04**	
15	4	Surface	**Percent**		**25.90%**	**61.72%**	**3.48%**	**8.90%**		
15	5	Surface	Arsenic		3.00E-05	2.42E-05	4.22E-08		5.43E-05	10.25%
15	5	Surface	Cadmium		8.92E-07	9.60E-07	2.07E-09		1.85E-06	0.35%
15	5	Surface	Chromium				2.75E-06		2.75E-06	0.52%
15	5	Surface	Neptunium-237		1.41E-07		2.76E-09	1.26E-05	1.28E-05	2.41%
15	5	Surface	Nickel				1.02E-07		1.02E-07	0.02%
15	5	Surface	PCB, Total		7.87E-05	2.96E-04	1.87E-05		3.94E-04	74.31%
15	5	Surface	Technetium-99		1.03E-06		3.41E-10	2.00E-07	1.23E-06	0.23%
15	5	Surface	Total PAH		5.84E-06	2.04E-05	2.57E-08		2.63E-05	4.96%
15	5	Surface	Uranium-234		1.16E-06		1.50E-08	3.38E-08	1.21E-06	0.23%
15	5	Surface	Uranium-235		9.45E-08		1.05E-09	5.75E-06	5.84E-06	1.10%
15	5	Surface	Uranium-238		2.73E-06		2.17E-08	2.70E-05	2.98E-05	5.62%
15	5	Surface	**Totals**		**1.21E-04**	**3.42E-04**	**2.16E-05**	**4.56E-05**	**5.30E-04**	
15	5	Surface	**Percent**		**22.76%**	**64.54%**	**4.08%**	**8.62%**		
15	6	Surface	Arsenic		2.92E-05	2.36E-05	4.11E-08		5.28E-05	17.36%
15	6	Surface	Cadmium		8.92E-07	9.60E-07	2.07E-09		1.85E-06	0.61%
15	6	Surface	Chromium				3.73E-06		3.73E-06	1.23%
15	6	Surface	Cobalt				1.12E-07		1.12E-07	0.04%
15	6	Surface	Neptunium-237		1.31E-07		2.56E-09	1.17E-05	1.19E-05	3.90%
15	6	Surface	Nickel				6.45E-08		6.45E-08	0.02%
15	6	Surface	PCB, Total		1.93E-05	7.27E-05	4.58E-06		9.66E-05	31.76%
15	6	Surface	Total PAH		1.86E-05	6.49E-05	8.17E-08		8.35E-05	27.47%
15	6	Surface	Uranium-234		1.74E-06		2.25E-08	5.07E-08	1.81E-06	0.60%
15	6	Surface	Uranium-235		1.17E-07		1.30E-09	7.12E-06	7.24E-06	2.38%
15	6	Surface	Uranium-238		4.07E-06		3.25E-08	4.04E-05	4.45E-05	14.64%
15	6	Surface	**Totals**		**7.40E-05**	**1.62E-04**	**8.67E-06**	**5.93E-05**	**3.04E-04**	
15	6	Surface	**Percent**		**24.34%**	**53.31%**	**2.85%**	**19.50%**		
15	7	Surface	Arsenic		3.78E-05	3.05E-05	5.31E-08		6.83E-05	13.15%
15	7	Surface	Cadmium		5.95E-07	6.40E-07	1.38E-09		1.24E-06	0.24%
15	7	Surface	Chromium				5.06E-06		5.06E-06	0.97%
15	7	Surface	Neptunium-237		4.55E-08		8.91E-10	4.09E-06	4.13E-06	0.80%
15	7	Surface	Nickel				1.11E-07		1.11E-07	0.02%
15	7	Surface	PCB, Total		8.04E-05	3.03E-04	1.91E-05		4.02E-04	77.41%
15	7	Surface	Total PAH		1.82E-06	6.35E-06	8.00E-09		8.17E-06	1.57%
15	7	Surface	Uranium-234		1.29E-06		1.67E-08	3.76E-08	1.35E-06	0.26%
15	7	Surface	Uranium-235		9.24E-08		1.03E-09	5.62E-06	5.72E-06	1.10%
15	7	Surface	Uranium-238		2.13E-06		1.70E-08	2.11E-05	2.33E-05	4.48%
15	7	Surface	**Totals**		**1.24E-04**	**3.40E-04**	**2.43E-05**	**3.09E-05**	**5.19E-04**	
15	7	Surface	**Percent**		**23.89%**	**65.48%**	**4.69%**	**5.94%**		
15	8	Surface	Arsenic		2.74E-05	2.21E-05	3.85E-08		4.95E-05	27.56%
15	8	Surface	Chromium				4.98E-06		4.98E-06	2.77%
15	8	Surface	Neptunium-237		7.45E-08		1.46E-09	6.69E-06	6.76E-06	3.77%
15	8	Surface	Nickel				3.62E-08		3.62E-08	0.02%
15	8	Surface	PCB, Total		1.53E-05	5.78E-05	3.64E-06		7.68E-05	42.76%
15	8	Surface	Total PAH		4.10E-06	1.43E-05	1.81E-08		1.85E-05	10.28%
15	8	Surface	Uranium-235		6.24E-08		6.93E-10	3.80E-06	3.86E-06	2.15%
15	8	Surface	Uranium-238		1.76E-06		1.40E-08	1.74E-05	1.92E-05	10.69%
15	8	Surface	**Totals**		**4.87E-05**	**9.42E-05**	**8.73E-06**	**2.79E-05**	**1.80E-04**	
15	8	Surface	**Percent**		**27.12%**	**52.47%**	**4.86%**	**15.54%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
15	9	Surface	Arsenic		2.59E-05	2.09E-05	3.65E-08		4.69E-05	48.58%
15	9	Surface	Chromium				6.15E-06		6.15E-06	6.37%
15	9	Surface	Neptunium-237		2.61E-08		5.11E-10	2.34E-06	2.37E-06	2.46%
15	9	Surface	Nickel				2.96E-08		2.96E-08	0.03%
15	9	Surface	PCB, Total		1.03E-06	3.89E-06	2.45E-07		5.17E-06	5.36%
15	9	Surface	Total PAH		2.72E-06	9.52E-06	1.20E-08		1.23E-05	12.70%
15	9	Surface	Uranium-235		4.97E-08		5.52E-10	3.02E-06	3.07E-06	3.19%
15	9	Surface	Uranium-238		1.88E-06		1.50E-08	1.87E-05	2.06E-05	21.32%
15	9	Surface	**Totals**		**3.16E-05**	**3.43E-05**	**6.49E-06**	**2.40E-05**	**9.65E-05**	
15	9	Surface	**Percent**		**32.78%**	**35.58%**	**6.72%**	**24.92%**		
15	10	Surface	Chromium				2.28E-06		2.28E-06	25.60%
15	10	Surface	Nickel				2.90E-08		2.90E-08	0.33%
15	10	Surface	Total PAH		1.47E-06	5.13E-06	6.47E-09		6.61E-06	74.08%
15	10	Surface	**Totals**		**1.47E-06**	**5.13E-06**	**2.32E-06**		**8.92E-06**	
15	10	Surface	**Percent**		**16.46%**	**57.55%**	**25.99%**			
16	1	Surface	Cesium-137		6.00E-08		2.95E-12	6.43E-05	6.44E-05	95.68%
16	1	Surface	PCB, Total		3.01E-07	1.13E-06	7.13E-08		1.50E-06	2.24%
16	1	Surface	Total PAH		3.11E-07	1.09E-06	1.37E-09		1.40E-06	2.08%
16	1	Surface	**Totals**		**6.71E-07**	**2.22E-06**	**7.27E-08**	**6.43E-05**	**6.73E-05**	
16	1	Surface	**Percent**		**1.00%**	**3.30%**	**0.11%**	**95.59%**		
16	2	Surface	Beryllium		5.65E-06	1.52E-04	1.54E-09		1.58E-04	99.17%
16	2	Surface	Chromium				1.31E-06		1.31E-06	0.83%
16	2	Surface	Nickel				4.30E-09		4.30E-09	0.00%
16	2	Surface	**Totals**		**5.65E-06**	**1.52E-04**	**1.32E-06**		**1.59E-04**	
16	2	Surface	**Percent**		**3.56%**	**95.62%**	**0.83%**			
16	3	Surface	PCB, Total		2.97E-06	1.12E-05	7.05E-07		1.49E-05	100.00%
16	3	Surface	**Totals**		**2.97E-06**	**1.12E-05**	**7.05E-07**		**1.49E-05**	
16	3	Surface	**Percent**		**19.99%**	**75.27%**	**4.74%**			
16	4	Surface	Cesium-137		2.00E-06		9.83E-11	2.14E-03	2.14E-03	63.99%
16	4	Surface	Cobalt-60		4.33E-10		6.89E-14	2.43E-06	2.43E-06	0.07%
16	4	Surface	Neptunium-237		1.45E-06		2.84E-08	1.30E-04	1.32E-04	3.94%
16	4	Surface	PCB, Total		1.00E-06	3.77E-06	2.38E-07		5.01E-06	0.15%
16	4	Surface	Technetium-99		2.85E-06		9.41E-10	5.54E-07	3.41E-06	0.10%
16	4	Surface	Thorium-230		1.35E-06		3.40E-08	9.97E-08	1.48E-06	0.04%
16	4	Surface	Total PAH		3.35E-05	1.17E-04	1.47E-07		1.51E-04	4.50%
16	4	Surface	Uranium-234		2.37E-05		3.06E-07	6.90E-07	2.47E-05	0.74%
16	4	Surface	Uranium-235		1.69E-06		1.88E-08	1.03E-04	1.05E-04	3.13%
16	4	Surface	Uranium-238		7.14E-05		5.70E-07	7.08E-04	7.80E-04	23.33%
16	4	Surface	**Totals**		**1.39E-04**	**1.21E-04**	**1.34E-06**	**3.08E-03**	**3.34E-03**	
16	4	Surface	**Percent**		**4.15%**	**3.61%**	**0.04%**	**92.19%**		
19	1	Surface	Beryllium		7.41E-06	1.99E-04	2.02E-09		2.07E-04	43.31%
19	1	Surface	Cadmium		7.14E-07	7.68E-07	1.65E-09		1.48E-06	0.31%
19	1	Surface	Total PAH		5.97E-05	2.09E-04	2.63E-07		2.69E-04	56.38%
19	1	Surface	**Totals**		**6.78E-05**	**4.09E-04**	**2.67E-07**		**4.77E-04**	
19	1	Surface	**Percent**		**14.23%**	**85.72%**	**0.06%**			
26	1	Surface	Arsenic		3.02E-05	2.44E-05	4.25E-08		5.47E-05	10.86%
26	1	Surface	Beryllium		4.50E-06	1.21E-04	1.23E-09		1.26E-04	24.94%
26	1	Surface	Cadmium		1.19E-06	1.28E-06	2.75E-09		2.46E-06	0.49%
26	1	Surface	Cesium-137		1.73E-07		8.50E-12	1.85E-04	1.85E-04	36.77%
26	1	Surface	Chromium				1.22E-06		1.22E-06	0.24%
26	1	Surface	Cobalt-60		9.80E-11		1.56E-14	5.51E-07	5.51E-07	0.11%
26	1	Surface	Neptunium-237		5.33E-08		1.04E-09	4.78E-06	4.84E-06	0.96%
26	1	Surface	Nickel				3.50E-09		3.50E-09	0.00%
26	1	Surface	PCB, Total		2.92E-06	1.10E-05	6.93E-07		1.46E-05	2.90%
26	1	Surface	Plutonium-239/240		1.40E-06		3.03E-08	1.86E-08	1.45E-06	0.29%
26	1	Surface	Thorium-230		9.72E-07		2.46E-08	7.19E-08	1.07E-06	0.21%
26	1	Surface	Total PAH		5.71E-07	2.00E-06	2.52E-09		2.57E-06	0.51%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
26	1	Surface	Uranium-234		9.29E-07		1.20E-08	2.71E-08	9.68E-07	0.19%
26	1	Surface	Uranium-235		1.32E-07		1.46E-09	8.01E-06	8.14E-06	1.62%
26	1	Surface	Uranium-238		9.17E-06		7.32E-08	9.10E-05	1.00E-04	19.90%
26	1	Surface	**Totals**		**5.23E-05**	**1.60E-04**	**2.11E-06**	**2.89E-04**	**5.04E-04**	
26	1	Surface	**Percent**		**10.38%**	**31.73%**	**0.42%**	**57.47%**		
26	2	Surface	Arsenic		1.11E-04	8.95E-05	1.56E-07		2.00E-04	7.71%
26	2	Surface	Beryllium		6.53E-05	1.75E-03	1.78E-08		1.82E-03	69.97%
26	2	Surface	Cadmium		1.42E-06	1.52E-06	3.28E-09		2.94E-06	0.11%
26	2	Surface	Cesium-137		3.23E-07		1.59E-11	3.46E-04	3.46E-04	13.32%
26	2	Surface	Chromium				2.51E-06		2.51E-06	0.10%
26	2	Surface	Cobalt				3.58E-07		3.58E-07	0.01%
26	2	Surface	Neptunium-237		1.61E-07		3.15E-09	1.45E-05	1.46E-05	0.56%
26	2	Surface	Nickel				2.25E-08		2.25E-08	0.00%
26	2	Surface	PCB, Total		6.98E-06	2.63E-05	1.66E-06		3.49E-05	1.34%
26	2	Surface	Thorium-230		3.85E-06		9.73E-08	2.85E-07	4.23E-06	0.16%
26	2	Surface	Uranium-234		3.80E-06		4.91E-08	1.11E-07	3.96E-06	0.15%
26	2	Surface	Uranium-235		3.51E-07		3.89E-09	2.13E-05	2.17E-05	0.83%
26	2	Surface	Uranium-238		1.36E-05		1.09E-07	1.35E-04	1.49E-04	5.72%
26	2	Surface	**Totals**		**2.07E-04**	**1.87E-03**	**4.98E-06**	**5.17E-04**	**2.60E-03**	
26	2	Surface	**Percent**		**7.94%**	**71.97%**	**0.19%**	**19.89%**		
26	3	Surface	Arsenic		1.19E-04	9.64E-05	1.68E-07		2.16E-04	20.77%
26	3	Surface	Beryllium		1.71E-05	4.59E-04	4.66E-09		4.76E-04	45.75%
26	3	Surface	Cadmium		1.39E-06	1.50E-06	3.22E-09		2.89E-06	0.28%
26	3	Surface	Cesium-137		4.08E-08		2.01E-12	4.37E-05	4.38E-05	4.21%
26	3	Surface	Chromium				2.09E-06		2.09E-06	0.20%
26	3	Surface	Cobalt				8.34E-08		8.34E-08	0.01%
26	3	Surface	Naphthalene				1.15E-06		1.15E-06	0.11%
26	3	Surface	Neptunium-237		1.54E-07		3.01E-09	1.38E-05	1.40E-05	1.34%
26	3	Surface	Nickel				5.91E-09		5.91E-09	0.00%
26	3	Surface	PCB, Total		7.88E-06	2.97E-05	1.87E-06		3.94E-05	3.79%
26	3	Surface	Technetium-99		6.25E-07		2.06E-10	1.21E-07	7.47E-07	0.07%
26	3	Surface	Thorium-230		1.81E-06		4.57E-08	1.34E-07	1.99E-06	0.19%
26	3	Surface	Total PAH		1.36E-05	4.75E-05	5.98E-08		6.11E-05	5.88%
26	3	Surface	Uranium-234		9.23E-06		1.19E-07	2.69E-07	9.61E-06	0.92%
26	3	Surface	Uranium-235		3.47E-07		3.86E-09	2.11E-05	2.15E-05	2.07%
26	3	Surface	Uranium-238		1.37E-05		1.09E-07	1.36E-04	1.50E-04	14.41%
26	3	Surface	**Totals**		**1.85E-04**	**6.34E-04**	**5.72E-06**	**2.15E-04**	**1.04E-03**	
26	3	Surface	**Percent**		**17.82%**	**60.94%**	**0.55%**	**20.69%**		
26	4	Surface	Americium-241		3.48E-07		8.07E-09	8.09E-07	1.16E-06	0.07%
26	4	Surface	Beryllium		4.65E-06	1.25E-04	1.27E-09		1.30E-04	7.71%
26	4	Surface	Cadmium		1.18E-06	1.27E-06	2.74E-09		2.46E-06	0.15%
26	4	Surface	Cesium-137		3.48E-08		1.71E-12	3.73E-05	3.73E-05	2.22%
26	4	Surface	Chromium				5.51E-06		5.51E-06	0.33%
26	4	Surface	Cobalt-60		6.14E-11		9.78E-15	3.45E-07	3.45E-07	0.02%
26	4	Surface	Neptunium-237		2.77E-06		5.42E-08	2.49E-04	2.51E-04	14.94%
26	4	Surface	Nickel				1.50E-08		1.50E-08	0.00%
26	4	Surface	PCB, Total		1.73E-06	6.53E-06	4.12E-07		8.68E-06	0.52%
26	4	Surface	Plutonium-239/240		1.74E-06		3.76E-08	2.30E-08	1.80E-06	0.11%
26	4	Surface	Technetium-99		5.76E-06		1.90E-09	1.12E-06	6.89E-06	0.41%
26	4	Surface	Thorium-230		8.30E-06		2.10E-07	6.15E-07	9.13E-06	0.54%
26	4	Surface	Total PAH		3.24E-07	1.13E-06	1.43E-09		1.46E-06	0.09%
26	4	Surface	Uranium-234		3.07E-05		3.97E-07	8.95E-07	3.20E-05	1.90%
26	4	Surface	Uranium-235		2.22E-06		2.46E-08	1.35E-04	1.37E-04	8.15%
26	4	Surface	Uranium-238		9.68E-05		7.72E-07	9.60E-04	1.06E-03	62.85%
26	4	Surface	**Totals**		**1.57E-04**	**1.34E-04**	**7.45E-06**	**1.38E-03**	**1.68E-03**	
26	4	Surface	**Percent**		**9.31%**	**7.96%**	**0.44%**	**82.28%**		
47	1	Surface	Arsenic		1.06E-04	8.57E-05	1.49E-07		1.92E-04	6.04%
47	1	Surface	Beryllium		4.71E-06	1.27E-04	1.29E-09		1.31E-04	4.14%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
47	1	Surface	Cadmium		2.53E-06	2.72E-06	5.86E-09		5.25E-06	0.17%
47	1	Surface	Chromium				3.47E-06		3.47E-06	0.11%
47	1	Surface	Cobalt				9.85E-08		9.85E-08	0.00%
47	1	Surface	Naphthalene				1.66E-06		1.66E-06	0.05%
47	1	Surface	Neptunium-237		2.35E-08		4.59E-10	2.11E-06	2.13E-06	0.07%
47	1	Surface	Nickel				1.64E-08		1.64E-08	0.00%
47	1	Surface	PCB, Total		3.01E-06	1.13E-05	7.13E-07		1.50E-05	0.47%
47	1	Surface	Plutonium-239/240		1.43E-06		3.09E-08	1.89E-08	1.48E-06	0.05%
47	1	Surface	Thorium-230		1.05E-05		2.64E-07	7.75E-07	1.15E-05	0.36%
47	1	Surface	Total PAH		6.18E-04	2.16E-03	2.72E-06		2.78E-03	87.57%
47	1	Surface	Uranium-234		1.36E-06		1.76E-08	3.97E-08	1.42E-06	0.04%
47	1	Surface	Uranium-235		1.03E-07		1.14E-09	6.25E-06	6.35E-06	0.20%
47	1	Surface	Uranium-238		2.10E-06		1.67E-08	2.08E-05	2.29E-05	0.72%
47	1	Surface	**Totals**		**7.50E-04**	**2.39E-03**	**9.16E-06**	**3.00E-05**	**3.18E-03**	
47	1	Surface	**Percent**		**23.61%**	**75.16%**	**0.29%**	**0.94%**		
74	1	Surface	PCB, Total		9.31E-06	3.51E-05	2.21E-06		4.66E-05	14.47%
74	1	Surface	Total PAH		3.61E-05	1.26E-04	1.59E-07		1.63E-04	50.50%
74	1	Surface	Uranium-234		1.50E-06		1.94E-08	4.38E-08	1.57E-06	0.49%
74	1	Surface	Uranium-238		1.02E-05		8.13E-08	1.01E-04	1.11E-04	34.55%
74	1	Surface	**Totals**		**5.71E-05**	**1.61E-04**	**2.47E-06**	**1.01E-04**	**3.22E-04**	
74	1	Surface	**Percent**		**17.74%**	**50.12%**	**0.77%**	**31.37%**		
75	1	Surface	Cadmium		6.54E-07	7.04E-07	1.52E-09		1.36E-06	6.48%
75	1	Surface	Chromium				4.61E-06		4.61E-06	21.98%
75	1	Surface	Nickel				1.77E-08		1.77E-08	0.08%
75	1	Surface	PCB, Total		7.20E-07	2.71E-06	1.71E-07		3.60E-06	17.17%
75	1	Surface	Total PAH		2.53E-06	8.85E-06	1.11E-08		1.14E-05	54.28%
75	1	Surface	**Totals**		**3.90E-06**	**1.23E-05**	**4.81E-06**		**2.10E-05**	
75	1	Surface	**Percent**		**18.61%**	**58.45%**	**22.94%**			
76	1	Surface	PCB, Total		8.14E-07	3.07E-06	1.93E-07		4.07E-06	4.13%
76	1	Surface	Total PAH		2.01E-05	7.03E-05	8.85E-08		9.04E-05	91.63%
76	1	Surface	Uranium-238		3.84E-07		3.06E-09	3.80E-06	4.19E-06	4.25%
76	1	Surface	**Totals**		**2.13E-05**	**7.33E-05**	**2.85E-07**	**3.80E-06**	**9.87E-05**	
76	1	Surface	**Percent**		**21.57%**	**74.29%**	**0.29%**	**3.85%**		
78	1	Surface	Cadmium		1.40E-06	1.51E-06	3.25E-09		2.92E-06	0.13%
78	1	Surface	Chromium				2.41E-06		2.41E-06	0.11%
78	1	Surface	Cobalt-60		3.00E-10		4.78E-14	1.69E-06	1.69E-06	0.08%
78	1	Surface	Naphthalene				1.40E-05		1.40E-05	0.62%
78	1	Surface	Nickel				4.28E-09		4.28E-09	0.00%
78	1	Surface	PCB, Total		3.76E-05	1.42E-04	8.92E-06		1.88E-04	8.39%
78	1	Surface	Total PAH		4.47E-04	1.56E-03	1.97E-06		2.01E-03	89.84%
78	1	Surface	Uranium-235		5.42E-08		6.02E-10	3.30E-06	3.35E-06	0.15%
78	1	Surface	Uranium-238		1.40E-06		1.12E-08	1.39E-05	1.53E-05	0.68%
78	1	Surface	**Totals**		**4.88E-04**	**1.71E-03**	**2.73E-05**	**1.89E-05**	**2.24E-03**	
78	1	Surface	**Percent**		**21.76%**	**76.18%**	**1.22%**	**0.84%**		
80	1	Surface	Americium-241		1.75E-06		4.06E-08	4.07E-06	5.86E-06	0.09%
80	1	Surface	Beryllium		5.25E-06	1.41E-04	1.43E-09		1.46E-04	2.29%
80	1	Surface	Chromium				1.06E-05		1.06E-05	0.17%
80	1	Surface	Neptunium-237		1.03E-07		2.02E-09	9.25E-06	9.36E-06	0.15%
80	1	Surface	PCB, Total		4.58E-05	1.72E-04	1.09E-05		2.29E-04	3.58%
80	1	Surface	Thorium-230		1.12E-06		2.83E-08	8.29E-08	1.23E-06	0.02%
80	1	Surface	Total PAH		1.62E-06	5.66E-06	7.13E-09		7.29E-06	0.11%
80	1	Surface	Uranium-234		4.56E-05		5.89E-07	1.33E-06	4.75E-05	0.74%
80	1	Surface	Uranium-235		6.16E-06		6.84E-08	3.75E-04	3.81E-04	5.96%
80	1	Surface	Uranium-238		5.08E-04		4.05E-06	5.04E-03	5.55E-03	86.88%
80	1	Surface	**Totals**		**6.16E-04**	**3.19E-04**	**2.63E-05**	**5.43E-03**	**6.39E-03**	
80	1	Surface	**Percent**		**9.63%**	**5.00%**	**0.41%**	**84.96%**		
81	1	Surface	Arsenic		2.41E-05	1.94E-05	3.39E-08		4.35E-05	1.59%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
81	1	Surface	Beryllium		5.10E-06	1.37E-04	1.39E-09		1.42E-04	5.21%
81	1	Surface	Chromium				5.54E-06		5.54E-06	0.20%
81	1	Surface	Nickel				1.45E-08		1.45E-08	0.00%
81	1	Surface	PCB, Total		5.00E-04	1.88E-03	1.19E-04		2.50E-03	91.71%
81	1	Surface	Total PAH		6.32E-06	2.21E-05	2.78E-08		2.84E-05	1.04%
81	1	Surface	Uranium-238		6.05E-07		4.82E-09	5.99E-06	6.60E-06	0.24%
81	1	Surface	**Totals**		**5.36E-04**	**2.06E-03**	**1.24E-04**	**5.99E-06**	**2.73E-03**	
81	1	Surface	**Percent**		**19.65%**	**75.57%**	**4.56%**	**0.22%**		
99	1	Surface	Chromium				3.54E-06		3.54E-06	36.59%
99	1	Surface	Cobalt-60		6.04E-10		9.62E-14	3.40E-06	3.40E-06	35.07%
99	1	Surface	Nickel				1.40E-08		1.40E-08	0.14%
99	1	Surface	Uranium-238		2.50E-07		1.99E-09	2.48E-06	2.73E-06	28.20%
99	1	Surface	**Totals**		**2.51E-07**		**3.56E-06**	**5.88E-06**	**9.69E-06**	
99	1	Surface	**Percent**		**2.59%**		**36.75%**	**60.66%**		
138	1	Surface	Arsenic		2.49E-05	2.01E-05	3.51E-08		4.51E-05	66.20%
138	1	Surface	Cadmium		3.22E-06	3.47E-06	7.47E-09		6.70E-06	9.84%
138	1	Surface	Chromium				3.46E-06		3.46E-06	5.08%
138	1	Surface	Nickel				1.40E-08		1.40E-08	0.02%
138	1	Surface	PCB, Total		1.57E-06	5.90E-06	3.71E-07		7.83E-06	11.50%
138	1	Surface	Total PAH		1.11E-06	3.89E-06	4.90E-09		5.01E-06	7.36%
138	1	Surface	**Totals**		**3.08E-05**	**3.34E-05**	**3.90E-06**		**6.81E-05**	
138	1	Surface	**Percent**		**45.27%**	**49.01%**	**5.72%**			
138	2	Surface	Nickel				1.59E-08		1.59E-08	0.46%
138	2	Surface	PCB, Total		2.88E-07	1.08E-06	6.83E-08		1.44E-06	41.99%
138	2	Surface	Total PAH		4.39E-07	1.53E-06	1.93E-09		1.98E-06	57.55%
138	2	Surface	**Totals**		**7.27E-07**	**2.62E-06**	**8.62E-08**		**3.43E-06**	
138	2	Surface	**Percent**		**21.18%**	**76.31%**	**2.51%**			
153	1	Surface	PCB, Total		1.59E-06	6.00E-06	3.78E-07		7.97E-06	64.07%
153	1	Surface	Total PAH		9.93E-07	3.47E-06	4.37E-09		4.47E-06	35.93%
153	1	Surface	**Totals**		**2.59E-06**	**9.48E-06**	**3.83E-07**		**1.24E-05**	
153	1	Surface	**Percent**		**20.79%**	**76.14%**	**3.07%**			
154	1	Surface	Arsenic		3.56E-05	2.87E-05	5.01E-08		6.44E-05	35.85%
154	1	Surface	Chromium				2.75E-06		2.75E-06	1.53%
154	1	Surface	Nickel				1.97E-08		1.97E-08	0.01%
154	1	Surface	PCB, Total		1.00E-05	3.77E-05	2.38E-06		5.01E-05	27.90%
154	1	Surface	Total PAH		1.19E-05	4.16E-05	5.24E-08		5.35E-05	29.79%
154	1	Surface	Uranium-238		8.10E-07		6.46E-09	8.03E-06	8.84E-06	4.92%
154	1	Surface	**Totals**		**5.83E-05**	**1.08E-04**	**5.26E-06**	**8.03E-06**	**1.80E-04**	
154	1	Surface	**Percent**		**32.47%**	**60.14%**	**2.92%**	**4.47%**		
154	2	Surface	PCB, Total		1.25E-06	4.72E-06	2.97E-07		6.27E-06	100.00%
154	2	Surface	**Totals**		**1.25E-06**	**4.72E-06**	**2.97E-07**		**6.27E-06**	
154	2	Surface	**Percent**		**19.99%**	**75.27%**	**4.74%**			
155	1	Surface	Chromium				2.23E-06		2.23E-06	1.51%
155	1	Surface	Neptunium-237		2.10E-08		4.12E-10	1.89E-06	1.91E-06	1.29%
155	1	Surface	Nickel				1.52E-08		1.52E-08	0.01%
155	1	Surface	PCB, Total		2.88E-05	1.08E-04	6.83E-06		1.44E-04	97.20%
155	1	Surface	**Totals**		**2.88E-05**	**1.08E-04**	**9.08E-06**	**1.89E-06**	**1.48E-04**	
155	1	Surface	**Percent**		**19.44%**	**73.16%**	**6.13%**	**1.27%**		
156	1	Surface	Chromium				3.15E-06		3.15E-06	17.10%
156	1	Surface	Nickel				1.23E-08		1.23E-08	0.07%
156	1	Surface	PCB, Total		9.39E-07	3.54E-06	2.23E-07		4.70E-06	25.48%
156	1	Surface	Total PAH		9.44E-07	3.30E-06	4.16E-09		4.25E-06	23.04%
156	1	Surface	Uranium-238		5.79E-07		4.62E-09	5.75E-06	6.33E-06	34.32%
156	1	Surface	**Totals**		**2.46E-06**	**6.84E-06**	**3.40E-06**	**5.75E-06**	**1.84E-05**	
156	1	Surface	**Percent**		**13.35%**	**37.08%**	**18.42%**	**31.15%**		
158	1	Surface	Arsenic		2.38E-05	1.92E-05	3.34E-08		4.30E-05	54.39%
158	1	Surface	Chromium				3.91E-06		3.91E-06	4.94%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
158	1	Surface	Cobalt				1.12E-07		1.12E-07	0.14%
158	1	Surface	Nickel				1.45E-08		1.45E-08	0.02%
158	1	Surface	Total PAH		4.22E-06	1.47E-05	1.86E-08		1.90E-05	24.02%
158	1	Surface	Uranium-235		3.35E-08		3.72E-10	2.04E-06	2.07E-06	2.62%
158	1	Surface	Uranium-238		1.00E-06		8.00E-09	9.94E-06	1.10E-05	13.86%
158	1	Surface	**Totals**		**2.90E-05**	**3.39E-05**	**4.09E-06**	**1.20E-05**	**7.90E-05**	
158	1	Surface	**Percent**		**36.72%**	**42.93%**	**5.18%**	**15.16%**		
160	1	Surface	Total PAH		6.05E-07	2.11E-06	2.66E-09		2.72E-06	100.00%
160	1	Surface	**Totals**		**6.05E-07**	**2.11E-06**	**2.66E-09**		**2.72E-06**	
160	1	Surface	**Percent**		**22.22%**	**77.69%**	**0.10%**			
163	1	Surface	Chromium				3.18E-06		3.18E-06	27.49%
163	1	Surface	Total PAH		1.86E-06	6.51E-06	8.20E-09		8.39E-06	72.51%
163	1	Surface	**Totals**		**1.86E-06**	**6.51E-06**	**3.19E-06**		**1.16E-05**	
163	1	Surface	**Percent**		**16.11%**	**56.33%**	**27.56%**			
165	1	Surface	Arsenic		1.49E-04	1.20E-04	2.10E-07		2.70E-04	25.34%
165	1	Surface	Beryllium		4.59E-06	1.23E-04	1.25E-09		1.28E-04	12.03%
165	1	Surface	Cesium-137		1.89E-07		9.32E-12	2.03E-04	2.03E-04	19.09%
165	1	Surface	Chromium				2.40E-06		2.40E-06	0.23%
165	1	Surface	Naphthalene				1.41E-06		1.41E-06	0.13%
165	1	Surface	Neptunium-237		8.70E-08		1.70E-09	7.80E-06	7.89E-06	0.74%
165	1	Surface	Nickel				6.91E-09		6.91E-09	0.00%
165	1	Surface	PCB, Total		2.59E-05	9.75E-05	6.14E-06		1.30E-04	12.17%
165	1	Surface	Plutonium-239/240		9.75E-07		2.11E-08	1.29E-08	1.01E-06	0.09%
165	1	Surface	Thorium-230		1.53E-06		3.87E-08	1.13E-07	1.68E-06	0.16%
165	1	Surface	Total PAH		2.14E-05	7.47E-05	9.40E-08		9.61E-05	9.03%
165	1	Surface	Uranium-234		1.15E-05		1.48E-07	3.34E-07	1.19E-05	1.12%
165	1	Surface	Uranium-235		4.20E-07		4.66E-09	2.56E-05	2.60E-05	2.44%
165	1	Surface	Uranium-238		1.70E-05		1.35E-07	1.68E-04	1.85E-04	17.41%
165	1	Surface	**Totals**		**2.33E-04**	**4.16E-04**	**1.06E-05**	**4.05E-04**	**1.06E-03**	
165	1	Surface	**Percent**		**21.86%**	**39.09%**	**1.00%**	**38.05%**		
169	1	Surface	Arsenic		4.77E-05	3.85E-05	6.71E-08		8.62E-05	12.80%
169	1	Surface	Beryllium		5.39E-06	1.45E-04	1.47E-09		1.50E-04	22.30%
169	1	Surface	Chromium				1.38E-05		1.38E-05	2.05%
169	1	Surface	Nickel				1.09E-07		1.09E-07	0.02%
169	1	Surface	PCB, Total		3.13E-05	1.18E-04	7.43E-06		1.57E-04	23.26%
169	1	Surface	Total PAH		5.24E-05	1.83E-04	2.31E-07		2.36E-04	35.02%
169	1	Surface	Uranium-234		1.30E-06		1.69E-08	3.80E-08	1.36E-06	0.20%
169	1	Surface	Uranium-235		9.45E-08		1.05E-09	5.75E-06	5.84E-06	0.87%
169	1	Surface	Uranium-238		2.15E-06		1.71E-08	2.13E-05	2.35E-05	3.48%
169	1	Surface	**Totals**		**1.40E-04**	**4.84E-04**	**2.17E-05**	**2.71E-05**	**6.74E-04**	
169	1	Surface	**Percent**		**20.83%**	**71.92%**	**3.22%**	**4.02%**		
170	1	Surface	Neptunium-237		2.35E-08		4.59E-10	2.11E-06	2.13E-06	32.51%
170	1	Surface	Uranium-238		4.05E-07		3.23E-09	4.01E-06	4.42E-06	67.49%
170	1	Surface	**Totals**		**4.28E-07**		**3.69E-09**	**6.12E-06**	**6.55E-06**	
170	1	Surface	**Percent**		**6.54%**		**0.06%**	**93.41%**		
176	1	Surface	Arsenic		1.14E-04	9.20E-05	1.60E-07		2.06E-04	98.67%
176	1	Surface	Chromium				2.75E-06		2.75E-06	1.32%
176	1	Surface	Nickel				2.13E-08		2.13E-08	0.01%
176	1	Surface	**Totals**		**1.14E-04**	**9.20E-05**	**2.93E-06**		**2.09E-04**	
176	1	Surface	**Percent**		**54.56%**	**44.03%**	**1.40%**			
180	1	Surface	Arsenic		1.76E-04	1.42E-04	2.47E-07		3.18E-04	98.88%
180	1	Surface	Chromium				3.57E-06		3.57E-06	1.11%
180	1	Surface	Nickel				1.75E-08		1.75E-08	0.01%
180	1	Surface	**Totals**		**1.76E-04**	**1.42E-04**	**3.83E-06**		**3.21E-04**	
180	1	Surface	**Percent**		**54.68%**	**44.13%**	**1.19%**			
180	2	Surface	Arsenic		2.97E-05	2.40E-05	4.18E-08		5.37E-05	87.59%
180	2	Surface	Chromium				2.87E-06		2.87E-06	4.68%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
180	2	Surface	Nickel				1.68E-08		1.68E-08	0.03%
180	2	Surface	Total PAH		1.05E-06	3.67E-06	4.62E-09		4.73E-06	7.70%
180	2	Surface	**Totals**		**3.08E-05**	**2.76E-05**	**2.93E-06**		**6.13E-05**	
180	2	Surface	**Percent**		**50.15%**	**45.07%**	**4.78%**			
180	3	Surface	Arsenic		3.14E-05	2.53E-05	4.41E-08		5.67E-05	94.92%
180	3	Surface	Chromium				3.02E-06		3.02E-06	5.05%
180	3	Surface	Nickel				1.35E-08		1.35E-08	0.02%
180	3	Surface	**Totals**		**3.14E-05**	**2.53E-05**	**3.08E-06**		**5.97E-05**	
180	3	Surface	**Percent**		**52.49%**	**42.36%**	**5.15%**			
180	4	Surface	Arsenic		2.71E-05	2.19E-05	3.81E-08		4.90E-05	13.82%
180	4	Surface	Beryllium		1.08E-05	2.90E-04	2.94E-09		3.00E-04	84.78%
180	4	Surface	Chromium				3.86E-06		3.86E-06	1.09%
180	4	Surface	Nickel				1.29E-08		1.29E-08	0.00%
180	4	Surface	Total PAH		2.46E-07	8.59E-07	1.08E-09		1.11E-06	0.31%
180	4	Surface	**Totals**		**3.81E-05**	**3.12E-04**	**3.91E-06**		**3.54E-04**	
180	4	Surface	**Percent**		**10.75%**	**88.14%**	**1.10%**			
181	1	Surface	Chromium				1.47E-06		1.47E-06	45.44%
181	1	Surface	Total PAH		3.92E-07	1.37E-06	1.73E-09		1.76E-06	54.56%
181	1	Surface	**Totals**		**3.92E-07**	**1.37E-06**	**1.47E-06**		**3.23E-06**	
181	1	Surface	**Percent**		**12.12%**	**42.39%**	**45.49%**			
194	1	Surface	Chromium				2.49E-06		2.49E-06	99.54%
194	1	Surface	Nickel				1.16E-08		1.16E-08	0.46%
194	1	Surface	**Totals**				**2.50E-06**		**2.50E-06**	
194	1	Surface	**Percent**				**1.00E+00**			
194	2	Surface	Chromium				3.83E-06		3.83E-06	48.29%
194	2	Surface	Uranium-238		3.76E-07		3.00E-09	3.73E-06	4.10E-06	51.71%
194	2	Surface	**Totals**		**3.76E-07**		**3.84E-06**	**3.73E-06**	**7.94E-06**	
194	2	Surface	**Percent**		**4.73E-02**		**4.83E-01**	**4.69E-01**		
194	3	Surface	Arsenic		3.44E-05	2.77E-05	4.84E-08		6.22E-05	88.28%
194	3	Surface	Chromium				2.51E-06		2.51E-06	3.56%
194	3	Surface	Nickel				1.27E-08		1.27E-08	0.02%
194	3	Surface	Total PAH		4.49E-07	1.57E-06	1.98E-09		2.02E-06	2.87%
194	3	Surface	Uranium-238		3.40E-07		2.71E-09	3.37E-06	3.71E-06	5.27%
194	3	Surface	**Totals**		**3.52E-05**	**2.93E-05**	**2.57E-06**	**3.37E-06**	**7.04E-05**	
194	3	Surface	**Percent**		**4.99E-01**	**4.16E-01**	**3.65E-02**	**4.78E-02**		
194	4	Surface	Chromium				3.11E-06		3.11E-06	26.21%
194	4	Surface	Nickel				1.37E-08		1.37E-08	0.12%
194	4	Surface	Total PAH		8.34E-07	2.92E-06	3.67E-09		3.75E-06	31.59%
194	4	Surface	Uranium-238		4.58E-07		3.65E-09	4.54E-06	5.00E-06	42.09%
194	4	Surface	**Totals**		**1.29E-06**	**2.92E-06**	**3.13E-06**	**4.54E-06**	**1.19E-05**	
194	4	Surface	**Percent**		**1.09E-01**	**2.45E-01**	**2.64E-01**	**3.82E-01**		
194	5	Surface	Chromium				2.95E-06		2.95E-06	36.06%
194	5	Surface	Nickel				1.50E-08		1.50E-08	0.18%
194	5	Surface	Total PAH		2.71E-07	9.47E-07	1.19E-09		1.22E-06	14.93%
194	5	Surface	Uranium-238		3.65E-07		2.91E-09	3.62E-06	3.99E-06	48.83%
194	5	Surface	**Totals**		**6.36E-07**	**9.47E-07**	**2.96E-06**	**3.62E-06**	**8.17E-06**	
194	5	Surface	**Percent**		**7.79E-02**	**1.16E-01**	**3.63E-01**	**4.43E-01**		
194	6	Surface	Chromium				2.38E-06		2.38E-06	38.32%
194	6	Surface	Nickel				1.60E-08		1.60E-08	0.26%
194	6	Surface	Uranium-238		3.49E-07		2.79E-09	3.46E-06	3.82E-06	61.42%
194	6	Surface	**Totals**		**3.49E-07**		**2.40E-06**	**3.46E-06**	**6.21E-06**	
194	6	Surface	**Percent**		**5.62E-02**		**3.86E-01**	**5.58E-01**		
194	7	Surface	Chromium				3.42E-06		3.42E-06	99.55%
194	7	Surface	Nickel				1.54E-08		1.54E-08	0.45%
194	7	Surface	**Totals**				**3.44E-06**		**3.44E-06**	
194	7	Surface	**Percent**				**1.00E+00**			
194	8	Surface	Chromium				3.45E-06		3.45E-06	10.63%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	8	Surface	Total PAH		5.54E-06	1.94E-05	2.44E-08		2.50E-05	76.98%
194	8	Surface	Uranium-238		3.68E-07		2.93E-09	3.65E-06	4.02E-06	12.39%
194	8	Surface	**Totals**		**5.91E-06**	**1.94E-05**	**3.47E-06**	**3.65E-06**	**3.24E-05**	
194	8	Surface	**Percent**		**1.82E-01**	**5.98E-01**	**1.07E-01**	**1.12E-01**		
194	9	Surface	Arsenic		2.68E-05	2.16E-05	3.77E-08		4.85E-05	93.59%
194	9	Surface	Chromium				3.32E-06		3.32E-06	6.41%
194	9	Surface	**Totals**		**2.68E-05**	**2.16E-05**	**3.36E-06**		**5.18E-05**	
194	9	Surface	**Percent**		**5.18E-01**	**4.18E-01**	**6.48E-02**			
194	10	Surface	Arsenic		2.86E-05	2.30E-05	4.02E-08		5.16E-05	48.94%
194	10	Surface	Cesium-137		3.17E-08		1.56E-12	3.40E-05	3.40E-05	32.22%
194	10	Surface	Chromium				2.33E-06		2.33E-06	2.21%
194	10	Surface	Nickel				1.51E-08		1.51E-08	0.01%
194	10	Surface	Total PAH		2.94E-06	1.03E-05	1.29E-08		1.32E-05	12.54%
194	10	Surface	Uranium-238		3.94E-07		3.14E-09	3.91E-06	4.31E-06	4.08%
194	10	Surface	**Totals**		**3.19E-05**	**3.33E-05**	**2.41E-06**	**3.79E-05**	**1.06E-04**	
194	10	Surface	**Percent**		**3.03E-01**	**3.16E-01**	**2.28E-02**	**3.59E-01**		
194	11	Surface	Chromium				2.10E-06		2.10E-06	27.92%
194	11	Surface	Nickel				2.00E-08		2.00E-08	0.27%
194	11	Surface	PCB, Total		2.63E-07	9.91E-07	6.24E-08		1.32E-06	17.48%
194	11	Surface	Total PAH		9.09E-07	3.18E-06	4.00E-09		4.09E-06	54.34%
194	11	Surface	**Totals**		**1.17E-06**	**4.17E-06**	**2.19E-06**		**7.53E-06**	
194	11	Surface	**Percent**		**1.56E-01**	**5.54E-01**	**2.91E-01**			
194	12	Surface	Chromium				4.07E-06		4.07E-06	8.16%
194	12	Surface	Nickel				1.56E-08		1.56E-08	0.03%
194	12	Surface	Total PAH		1.02E-05	3.56E-05	4.49E-08		4.59E-05	91.81%
194	12	Surface	**Totals**		**1.02E-05**	**3.56E-05**	**4.14E-06**		**4.99E-05**	
194	12	Surface	**Percent**		**2.04E-01**	**7.13E-01**	**8.28E-02**			
194	13	Surface	Chromium				3.06E-06		3.06E-06	39.41%
194	13	Surface	Nickel				1.20E-08		1.20E-08	0.15%
194	13	Surface	Total PAH		1.04E-06	3.65E-06	4.60E-09		4.70E-06	60.43%
194	13	Surface	**Totals**		**1.04E-06**	**3.65E-06**	**3.08E-06**		**7.78E-06**	
194	13	Surface	**Percent**		**1.34E-01**	**4.69E-01**	**3.96E-01**			
194	14	Surface	Chromium				3.35E-06		3.35E-06	100.00%
194	14	Surface	**Totals**				**3.35E-06**		**3.35E-06**	
194	14	Surface	**Percent**				**1.00E+00**			
194	15	Surface	Chromium				3.43E-06		3.43E-06	100.00%
194	15	Surface	**Totals**				**3.43E-06**		**3.43E-06**	
194	15	Surface	**Percent**				**1.00E+00**			
194	16	Surface	Arsenic		2.71E-05	2.18E-05	3.81E-08		4.89E-05	22.68%
194	16	Surface	Beryllium		5.86E-06	1.57E-04	1.60E-09		1.63E-04	75.72%
194	16	Surface	Chromium				3.42E-06		3.42E-06	1.59%
194	16	Surface	Nickel				1.43E-08		1.43E-08	0.01%
194	16	Surface	**Totals**		**3.29E-05**	**1.79E-04**	**3.48E-06**		**2.16E-04**	
194	16	Surface	**Percent**		**1.53E-01**	**8.31E-01**	**1.61E-02**			
194	17	Surface	Arsenic		2.71E-05	2.19E-05	3.82E-08		4.90E-05	79.68%
194	17	Surface	Cadmium		6.54E-07	7.04E-07	1.52E-09		1.36E-06	2.21%
194	17	Surface	Chromium				2.99E-06		2.99E-06	4.86%
194	17	Surface	Total PAH		1.81E-06	6.34E-06	7.99E-09		8.16E-06	13.26%
194	17	Surface	**Totals**		**2.96E-05**	**2.89E-05**	**3.04E-06**		**6.16E-05**	
194	17	Surface	**Percent**		**4.81E-01**	**4.70E-01**	**4.93E-02**			
194	18	Surface	Arsenic		2.48E-05	2.00E-05	3.49E-08		4.49E-05	23.85%
194	18	Surface	Beryllium		4.98E-06	1.34E-04	1.36E-09		1.39E-04	73.81%
194	18	Surface	Chromium				4.40E-06		4.40E-06	2.34%
194	18	Surface	Nickel				1.15E-08		1.15E-08	0.01%
194	18	Surface	**Totals**		**2.98E-05**	**1.54E-04**	**4.45E-06**		**1.88E-04**	
194	18	Surface	**Percent**		**1.58E-01**	**8.18E-01**	**2.37E-02**			
194	19	Surface	Arsenic		2.51E-05	2.03E-05	3.53E-08		4.54E-05	93.57%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	19	Surface	Chromium				3.11E-06		3.11E-06	6.41%
194	19	Surface	Nickel				1.16E-08		1.16E-08	0.02%
194	19	Surface	**Totals**		**2.51E-05**	**2.03E-05**	**3.16E-06**		**4.85E-05**	
194	19	Surface	**Percent**		**5.17E-01**	**4.18E-01**	**6.51E-02**			
194	20	Surface	Arsenic		2.78E-05	2.24E-05	3.91E-08		5.03E-05	19.20%
194	20	Surface	Beryllium		7.41E-06	1.99E-04	2.02E-09		2.07E-04	78.85%
194	20	Surface	Chromium				3.37E-06		3.37E-06	1.29%
194	20	Surface	Cobalt				1.45E-07		1.45E-07	0.06%
194	20	Surface	Nickel				1.31E-08		1.31E-08	0.00%
194	20	Surface	Total PAH		3.54E-07	1.24E-06	1.56E-09		1.59E-06	0.61%
194	20	Surface	**Totals**		**3.56E-05**	**2.23E-04**	**3.57E-06**		**2.62E-04**	
194	20	Surface	**Percent**		**1.36E-01**	**8.51E-01**	**1.36E-02**			
194	21	Surface	Chromium				3.54E-06		3.54E-06	99.61%
194	21	Surface	Nickel				1.40E-08		1.40E-08	0.39%
194	21	Surface	**Totals**				**3.56E-06**		**3.56E-06**	
194	21	Surface	**Percent**				**1.00E+00**			
194	22	Surface	Chromium				3.15E-06		3.15E-06	1.81%
194	22	Surface	PCB, Total		3.42E-05	1.29E-04	8.11E-06		1.71E-04	98.19%
194	22	Surface	**Totals**		**3.42E-05**	**1.29E-04**	**1.13E-05**		**1.74E-04**	
194	22	Surface	**Percent**		**1.96E-01**	**7.39E-01**	**6.46E-02**			
194	23	Surface	Arsenic		2.71E-05	2.19E-05	3.82E-08		4.90E-05	92.01%
194	23	Surface	Chromium				4.24E-06		4.24E-06	7.96%
194	23	Surface	Nickel				1.75E-08		1.75E-08	0.03%
194	23	Surface	**Totals**		**2.71E-05**	**2.19E-05**	**4.30E-06**		**5.33E-05**	
194	23	Surface	**Percent**		**5.09E-01**	**4.11E-01**	**8.06E-02**			
194	24	Surface	Chromium				3.23E-06		3.23E-06	73.12%
194	24	Surface	Nickel				1.41E-08		1.41E-08	0.32%
194	24	Surface	Total PAH		2.61E-07	9.11E-07	1.15E-09		1.17E-06	26.56%
194	24	Surface	**Totals**		**2.61E-07**	**9.11E-07**	**3.24E-06**		**4.42E-06**	
194	24	Surface	**Percent**		**5.90E-02**	**2.06E-01**	**7.35E-01**			
194	25	Surface	Chromium				3.94E-06		3.94E-06	78.60%
194	25	Surface	Nickel				1.26E-08		1.26E-08	0.25%
194	25	Surface	Total PAH		2.35E-07	8.23E-07	1.04E-09		1.06E-06	21.15%
194	25	Surface	**Totals**		**2.35E-07**	**8.23E-07**	**3.95E-06**		**5.01E-06**	
194	25	Surface	**Percent**		**4.70E-02**	**1.64E-01**	**7.89E-01**			
194	26	Surface	Beryllium		4.71E-06	1.27E-04	1.29E-09		1.31E-04	97.99%
194	26	Surface	Chromium				2.69E-06		2.69E-06	2.01%
194	26	Surface	**Totals**		**4.71E-06**	**1.27E-04**	**2.69E-06**		**1.34E-04**	
194	26	Surface	**Percent**		**3.51E-02**	**9.45E-01**	**2.01E-02**			
194	27	Surface	Chromium				3.36E-06		3.36E-06	99.61%
194	27	Surface	Nickel				1.30E-08		1.30E-08	0.39%
194	27	Surface	**Totals**				**3.37E-06**		**3.37E-06**	
194	27	Surface	**Percent**				**1.00E+00**			
194	28	Surface	Arsenic		2.83E-05	2.28E-05	3.97E-08		5.11E-05	27.13%
194	28	Surface	Beryllium		4.78E-06	1.29E-04	1.30E-09		1.33E-04	70.79%
194	28	Surface	Chromium				3.90E-06		3.90E-06	2.07%
194	28	Surface	Nickel				1.38E-08		1.38E-08	0.01%
194	28	Surface	**Totals**		**3.30E-05**	**1.51E-04**	**3.96E-06**		**1.88E-04**	
194	28	Surface	**Percent**		**1.75E-01**	**8.04E-01**	**2.10E-02**			
194	29	Surface	Chromium				3.25E-06		3.25E-06	99.60%
194	29	Surface	Nickel				1.30E-08		1.30E-08	0.40%
194	29	Surface	**Totals**				**3.26E-06**		**3.26E-06**	
194	29	Surface	**Percent**				**1.00E+00**			
194	30	Surface	Chromium				3.64E-06		3.64E-06	99.62%
194	30	Surface	Nickel				1.39E-08		1.39E-08	0.38%
194	30	Surface	**Totals**				**3.65E-06**		**3.65E-06**	
194	30	Surface	**Percent**				**1.00E+00**			

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	31	Surface	Cesium-137		3.11E-08		1.53E-12	3.33E-05	3.34E-05	87.03%
194	31	Surface	Uranium-238		4.55E-07		3.63E-09	4.51E-06	4.97E-06	12.97%
194	31	Surface	**Totals**		**4.86E-07**		**3.63E-09**	**3.78E-05**	**3.83E-05**	
194	31	Surface	**Percent**		**1.27E-02**		**9.48E-05**	**9.87E-01**		
195	1	Surface	Chromium				4.07E-06		4.07E-06	99.66%
195	1	Surface	Nickel				1.40E-08		1.40E-08	0.34%
195	1	Surface	**Totals**				**4.08E-06**		**4.08E-06**	
195	1	Surface	**Percent**				**1.00E+00**			
195	2	Surface	Chromium				2.91E-06		2.91E-06	67.83%
195	2	Surface	Total PAH		3.06E-07	1.07E-06	1.35E-09		1.38E-06	32.17%
195	2	Surface	**Totals**		**3.06E-07**	**1.07E-06**	**2.91E-06**		**4.29E-06**	
195	2	Surface	**Percent**		**7.15E-02**	**2.50E-01**	**6.79E-01**			
195	3	Surface	Chromium				3.23E-06		3.23E-06	60.65%
195	3	Surface	Nickel				1.04E-08		1.04E-08	0.19%
195	3	Surface	Total PAH		4.64E-07	1.62E-06	2.04E-09		2.09E-06	39.16%
195	3	Surface	**Totals**		**4.64E-07**	**1.62E-06**	**3.25E-06**		**5.33E-06**	
195	3	Surface	**Percent**		**8.70E-02**	**3.04E-01**	**6.09E-01**			
195	4	Surface	Chromium				3.40E-06		3.40E-06	99.64%
195	4	Surface	Nickel				1.24E-08		1.24E-08	0.36%
195	4	Surface	**Totals**				**3.41E-06**		**3.41E-06**	
195	4	Surface	**Percent**				**1.00E+00**			
195	5	Surface	Chromium				3.69E-06		3.69E-06	74.70%
195	5	Surface	Nickel				1.61E-08		1.61E-08	0.33%
195	5	Surface	Total PAH		2.74E-07	9.59E-07	1.21E-09		1.23E-06	24.98%
195	5	Surface	**Totals**		**2.74E-07**	**9.59E-07**	**3.71E-06**		**4.94E-06**	
195	5	Surface	**Percent**		**5.55E-02**	**1.94E-01**	**7.50E-01**			
195	6	Surface	Chromium				2.86E-06		2.86E-06	18.33%
195	6	Surface	Nickel				1.73E-08		1.73E-08	0.11%
195	6	Surface	Total PAH		2.83E-06	9.90E-06	1.25E-08		1.27E-05	81.56%
195	6	Surface	**Totals**		**2.83E-06**	**9.90E-06**	**2.89E-06**		**1.56E-05**	
195	6	Surface	**Percent**		**1.81E-01**	**6.34E-01**	**1.85E-01**			
195	7	Surface	Chromium				3.17E-06		3.17E-06	100.00%
195	7	Surface	**Totals**				**3.17E-06**		**3.17E-06**	
195	7	Surface	**Percent**				**1.00E+00**			
195	8	Surface	Arsenic		2.71E-05	2.19E-05	3.82E-08		4.91E-05	24.11%
195	8	Surface	Beryllium		4.98E-06	1.34E-04	1.36E-09		1.39E-04	68.23%
195	8	Surface	Chromium				4.37E-06		4.37E-06	2.15%
195	8	Surface	Cobalt				1.25E-07		1.25E-07	0.06%
195	8	Surface	Nickel				1.40E-08		1.40E-08	0.01%
195	8	Surface	Total PAH		2.46E-06	8.62E-06	1.09E-08		1.11E-05	5.45%
195	8	Surface	**Totals**		**3.46E-05**	**1.64E-04**	**4.56E-06**		**2.04E-04**	
195	8	Surface	**Percent**		**1.70E-01**	**8.08E-01**	**2.24E-02**			
195	9	Surface	Chromium				3.91E-06		3.91E-06	99.60%
195	9	Surface	Nickel				1.58E-08		1.58E-08	0.40%
195	9	Surface	**Totals**				**3.93E-06**		**3.93E-06**	
195	9	Surface	**Percent**				**1.00E+00**			
195	10	Surface	Chromium				2.90E-06		2.90E-06	99.49%
195	10	Surface	Nickel				1.47E-08		1.47E-08	0.51%
195	10	Surface	**Totals**				**2.91E-06**		**2.91E-06**	
195	10	Surface	**Percent**				**1.00E+00**			
195	11	Surface	Arsenic		3.16E-05	2.55E-05	4.45E-08		5.72E-05	94.30%
195	11	Surface	Chromium				3.25E-06		3.25E-06	5.36%
195	11	Surface	Cobalt				1.91E-07		1.91E-07	0.31%
195	11	Surface	Nickel				1.35E-08		1.35E-08	0.02%
195	11	Surface	**Totals**		**3.16E-05**	**2.55E-05**	**3.50E-06**		**6.06E-05**	
195	11	Surface	**Percent**		**5.21E-01**	**4.21E-01**	**5.77E-02**			
195	12	Surface	Beryllium		5.05E-06	1.36E-04	1.38E-09		1.41E-04	96.88%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
195	12	Surface	Chromium				4.53E-06		4.53E-06	3.11%
195	12	Surface	Nickel				1.35E-08		1.35E-08	0.01%
195	12	Surface	**Totals**		**5.05E-06**	**1.36E-04**	**4.54E-06**		**1.45E-04**	
195	12	Surface	**Percent**		**3.47E-02**	**9.34E-01**	**3.12E-02**			
195	13	Surface	Chromium				4.21E-06		4.21E-06	99.67%
195	13	Surface	Nickel				1.37E-08		1.37E-08	0.33%
195	13	Surface	**Totals**				**4.23E-06**		**4.23E-06**	
195	13	Surface	**Percent**				**1.00E+00**			
195	14	Surface	Chromium				3.82E-06		3.82E-06	99.63%
195	14	Surface	Nickel				1.40E-08		1.40E-08	0.37%
195	14	Surface	**Totals**				**3.84E-06**		**3.84E-06**	
195	14	Surface	**Percent**				**1.00E+00**			
195	15	Surface	Chromium				3.10E-06		3.10E-06	100.00%
195	15	Surface	**Totals**				**3.10E-06**		**3.10E-06**	
195	15	Surface	**Percent**				**1.00E+00**			
195	16	Surface	Chromium				2.86E-06		2.86E-06	99.44%
195	16	Surface	Nickel				1.62E-08		1.62E-08	0.56%
195	16	Surface	**Totals**				**2.88E-06**		**2.88E-06**	
195	16	Surface	**Percent**				**1.00E+00**			
195	17	Surface	Chromium				5.28E-06		5.28E-06	12.59%
195	17	Surface	Nickel				1.18E-08		1.18E-08	0.03%
195	17	Surface	PCB, Total		2.32E-06	8.73E-06	5.50E-07		1.16E-05	27.61%
195	17	Surface	Total PAH		3.61E-06	1.26E-05	1.59E-08		1.63E-05	38.71%
195	17	Surface	Uranium-235		2.71E-08		3.01E-10	1.65E-06	1.68E-06	3.99%
195	17	Surface	Uranium-238		6.56E-07		5.23E-09	6.51E-06	7.17E-06	17.07%
195	17	Surface	**Totals**		**6.61E-06**	**2.14E-05**	**5.87E-06**	**8.16E-06**	**4.20E-05**	
195	17	Surface	**Percent**		**1.57E-01**	**5.09E-01**	**1.40E-01**	**1.94E-01**		
196	1	Surface	Chromium				1.26E-06		1.26E-06	10.88%
196	1	Surface	Neptunium-237		6.35E-08		1.24E-09	5.70E-06	5.76E-06	49.74%
196	1	Surface	Nickel				1.11E-07		1.11E-07	0.96%
196	1	Surface	Uranium-238		4.07E-07		3.25E-09	4.04E-06	4.45E-06	38.42%
196	1	Surface	**Totals**		**4.71E-07**		**1.38E-06**	**9.74E-06**	**1.16E-05**	
196	1	Surface	**Percent**		**4.07E-02**		**1.19E-01**	**8.41E-01**		
196	2	Surface	Cadmium		1.51E-06	1.62E-06	3.49E-09		3.13E-06	4.50%
196	2	Surface	Chromium				1.33E-06		1.33E-06	1.92%
196	2	Surface	Nickel				1.47E-08		1.47E-08	0.02%
196	2	Surface	PCB, Total		4.73E-06	1.78E-05	1.12E-06		2.37E-05	34.04%
196	2	Surface	Total PAH		7.77E-06	2.72E-05	3.42E-08		3.50E-05	50.33%
196	2	Surface	Uranium-238		5.85E-07		4.66E-09	5.80E-06	6.39E-06	9.19%
196	2	Surface	**Totals**		**1.46E-05**	**4.66E-05**	**2.51E-06**	**5.80E-06**	**6.95E-05**	
196	2	Surface	**Percent**		**2.10E-01**	**6.71E-01**	**3.61E-02**	**8.34E-02**		
200	1	Surface	Cesium-137		3.13E-08		1.54E-12	3.36E-05	3.36E-05	36.64%
200	1	Surface	Chromium				3.70E-06		3.70E-06	4.04%
200	1	Surface	Nickel				2.55E-08		2.55E-08	0.03%
200	1	Surface	PCB, Total		8.14E-06	3.07E-05	1.93E-06		4.07E-05	44.44%
200	1	Surface	Total PAH		3.25E-07	1.14E-06	1.43E-09		1.46E-06	1.59%
200	1	Surface	Uranium-235		2.94E-08		3.26E-10	1.79E-06	1.82E-06	1.98%
200	1	Surface	Uranium-238		9.46E-07		7.55E-09	9.38E-06	1.03E-05	11.28%
200	1	Surface	**Totals**		**9.47E-06**	**3.18E-05**	**5.67E-06**	**4.47E-05**	**9.17E-05**	
200	1	Surface	**Percent**		**1.03E-01**	**3.47E-01**	**6.18E-02**	**4.88E-01**		
204	1	Surface	Beryllium		9.16E-06	2.46E-04	2.50E-09		2.55E-04	79.69%
204	1	Surface	Cadmium		1.62E-06	1.75E-06	3.76E-09		3.38E-06	1.05%
204	1	Surface	Chromium				4.76E-06		4.76E-06	1.49%
204	1	Surface	PCB, Total		7.92E-06	2.98E-05	1.88E-06		3.96E-05	12.37%
204	1	Surface	Uranium-235		3.70E-08		4.10E-10	2.25E-06	2.29E-06	0.71%
204	1	Surface	Uranium-238		1.38E-06		1.10E-08	1.36E-05	1.50E-05	4.69%
204	1	Surface	**Totals**		**2.01E-05**	**2.78E-04**	**6.66E-06**	**1.59E-05**	**3.20E-04**	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
204	1	Surface	**Percent**		**6.28E-02**	**8.67E-01**	**2.08E-02**	**4.96E-02**		
204	2	Surface	Chromium				1.16E-06		1.16E-06	30.30%
204	2	Surface	PCB, Total		5.32E-07	2.00E-06	1.26E-07		2.66E-06	69.70%
204	2	Surface	**Totals**		**5.32E-07**	**2.00E-06**	**1.28E-06**		**3.82E-06**	
204	2	Surface	**Percent**		**1.39E-01**	**5.25E-01**	**3.36E-01**			
204	3	Surface	Chromium				1.32E-06		1.32E-06	15.49%
204	3	Surface	Uranium-238		6.62E-07		5.28E-09	6.56E-06	7.23E-06	84.51%
204	3	Surface	**Totals**		**6.62E-07**		**1.33E-06**	**6.56E-06**	**8.55E-06**	
204	3	Surface	**Percent**		**7.74E-02**		**1.56E-01**	**7.67E-01**		
204	4	Surface	Chromium				1.86E-06		1.86E-06	5.75%
204	4	Surface	Uranium-235		3.86E-08		4.28E-10	2.35E-06	2.39E-06	7.38%
204	4	Surface	Uranium-238		2.57E-06		2.05E-08	2.55E-05	2.81E-05	86.88%
204	4	Surface	**Totals**		**2.61E-06**		**1.88E-06**	**2.79E-05**	**3.23E-05**	
204	4	Surface	**Percent**		**8.07E-02**		**5.81E-02**	**8.61E-01**		
204	18	Surface	Cesium-137		3.44E-08		1.69E-12	3.68E-05	3.69E-05	68.30%
204	18	Surface	Uranium-235		2.57E-08		2.85E-10	1.56E-06	1.59E-06	2.94%
204	18	Surface	Uranium-238		1.42E-06		1.13E-08	1.41E-05	1.55E-05	28.76%
204	18	Surface	**Totals**		**1.48E-06**		**1.16E-08**	**5.25E-05**	**5.40E-05**	
204	18	Surface	**Percent**		**2.74E-02**		**2.15E-04**	**9.72E-01**		
204	23	Surface	Americium-241		1.01E-06		2.35E-08	2.36E-06	3.39E-06	0.02%
204	23	Surface	Beryllium		8.95E-06	2.41E-04	2.44E-09		2.50E-04	1.66%
204	23	Surface	Cesium-137		6.39E-08		3.15E-12	6.85E-05	6.86E-05	0.46%
204	23	Surface	Chromium				1.13E-05		1.13E-05	0.07%
204	23	Surface	Cobalt-60		6.22E-10		9.90E-14	3.50E-06	3.50E-06	0.02%
204	23	Surface	PCB, Total		2.47E-04	9.32E-04	5.87E-05		1.24E-03	8.21%
204	23	Surface	Uranium-234		8.86E-05		1.15E-06	2.58E-06	9.23E-05	0.61%
204	23	Surface	Uranium-235		1.17E-05		1.30E-07	7.12E-04	7.24E-04	4.81%
204	23	Surface	Uranium-238		1.16E-03		9.26E-06	1.15E-02	1.27E-02	84.13%
204	23	Surface	**Totals**		**1.52E-03**	**1.17E-03**	**8.05E-05**	**1.23E-02**	**1.51E-02**	
204	23	Surface	**Percent**		**1.01E-01**	**7.78E-02**	**5.34E-03**	**8.16E-01**		
211	1	Surface	Chromium				2.88E-06		2.88E-06	7.96%
211	1	Surface	Neptunium-237		2.98E-08		5.83E-10	2.67E-06	2.70E-06	7.49%
211	1	Surface	PCB, Total		1.13E-06	4.25E-06	2.67E-07		5.64E-06	15.61%
211	1	Surface	Total PAH		1.19E-06	4.15E-06	5.23E-09		5.34E-06	14.78%
211	1	Surface	Uranium-235		4.35E-08		4.83E-10	2.65E-06	2.69E-06	7.45%
211	1	Surface	Uranium-238		1.55E-06		1.23E-08	1.53E-05	1.69E-05	46.71%
211	1	Surface	**Totals**		**3.93E-06**	**8.39E-06**	**3.16E-06**	**2.06E-05**	**3.61E-05**	
211	1	Surface	**Percent**		**1.09E-01**	**2.32E-01**	**8.76E-02**	**5.71E-01**		
212	1	Surface	Arsenic		3.39E-05	2.73E-05	4.76E-08		6.12E-05	14.68%
212	1	Surface	Beryllium		5.45E-06	1.47E-04	1.49E-09		1.52E-04	36.45%
212	1	Surface	Cesium-137		3.28E-08		1.61E-12	3.51E-05	3.52E-05	8.43%
212	1	Surface	Chromium				2.30E-06		2.30E-06	0.55%
212	1	Surface	Cobalt-60		4.45E-10		7.08E-14	2.50E-06	2.50E-06	0.60%
212	1	Surface	Neptunium-237		8.16E-07		1.60E-08	7.33E-05	7.41E-05	17.76%
212	1	Surface	Nickel				1.73E-08		1.73E-08	0.00%
212	1	Surface	PCB, Total		5.64E-07	2.12E-06	1.34E-07		2.82E-06	0.68%
212	1	Surface	Plutonium-239/240		2.33E-06		5.04E-08	3.09E-08	2.41E-06	0.58%
212	1	Surface	Thorium-230		6.62E-05		1.67E-06	4.90E-06	7.27E-05	17.44%
212	1	Surface	Uranium-235		4.29E-08		4.76E-10	2.61E-06	2.66E-06	0.64%
212	1	Surface	Uranium-238		8.39E-07		6.69E-09	8.32E-06	9.16E-06	2.20%
212	1	Surface	**Totals**		**1.10E-04**	**1.76E-04**	**4.25E-06**	**1.27E-04**	**4.17E-04**	
212	1	Surface	**Percent**		**2.64E-01**	**4.22E-01**	**1.02E-02**	**3.04E-01**		
213	1	Surface	Chromium				3.07E-06		3.07E-06	15.52%
213	1	Surface	Nickel				1.33E-08		1.33E-08	0.07%
213	1	Surface	PCB, Total		2.29E-07	8.61E-07	5.42E-08		1.14E-06	5.77%
213	1	Surface	Total PAH		1.96E-06	6.87E-06	8.65E-09		8.84E-06	44.64%
213	1	Surface	Uranium-238		6.17E-07		4.92E-09	6.11E-06	6.73E-06	34.00%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
213	1	Surface	**Totals**		**2.81E-06**	**7.73E-06**	**3.16E-06**	**6.11E-06**	**1.98E-05**	
213	1	Surface	**Percent**		**1.42E-01**	**3.90E-01**	**1.59E-01**	**3.09E-01**		
213	2	Surface	Chromium				2.88E-06		2.88E-06	99.38%
213	2	Surface	Nickel				1.81E-08		1.81E-08	0.62%
213	2	Surface	**Totals**				**2.90E-06**		**2.90E-06**	
213	2	Surface	**Percent**				**1.00E+00**			
215	1	Surface	Chromium				3.69E-06		3.69E-06	46.89%
215	1	Surface	Nickel				1.46E-08		1.46E-08	0.19%
215	1	Surface	Total PAH		9.24E-07	3.23E-06	4.07E-09		4.16E-06	52.93%
215	1	Surface	**Totals**		**9.24E-07**	**3.23E-06**	**3.71E-06**		**7.86E-06**	
215	1	Surface	**Percent**		**1.18E-01**	**4.11E-01**	**4.71E-01**			
216	1	Surface	Chromium				1.53E-06		1.53E-06	11.72%
216	1	Surface	Total PAH		1.71E-06	5.97E-06	7.52E-09		7.68E-06	58.83%
216	1	Surface	Uranium-238		3.52E-07		2.81E-09	3.49E-06	3.84E-06	29.44%
216	1	Surface	**Totals**		**2.06E-06**	**5.97E-06**	**1.54E-06**	**3.49E-06**	**1.31E-05**	
216	1	Surface	**Percent**		**1.58E-01**	**4.57E-01**	**1.18E-01**	**2.67E-01**		
217	1	Surface	Chromium				5.51E-06		5.51E-06	61.26%
217	1	Surface	Cobalt				1.35E-07		1.35E-07	1.50%
217	1	Surface	Nickel				1.70E-08		1.70E-08	0.19%
217	1	Surface	Uranium-238		3.05E-07		2.44E-09	3.03E-06	3.34E-06	37.05%
217	1	Surface	**Totals**		**3.05E-07**		**5.67E-06**	**3.03E-06**	**9.00E-06**	
217	1	Surface	**Percent**		**3.39E-02**		**6.30E-01**	**3.36E-01**		
217	2	Surface	Arsenic		2.62E-05	2.11E-05	3.69E-08		4.74E-05	59.21%
217	2	Surface	Chromium				6.53E-06		6.53E-06	8.16%
217	2	Surface	Cobalt				1.20E-07		1.20E-07	0.15%
217	2	Surface	Nickel				1.94E-08		1.94E-08	0.02%
217	2	Surface	Total PAH		5.77E-06	2.02E-05	2.54E-08		2.60E-05	32.46%
217	2	Surface	**Totals**		**3.20E-05**	**4.13E-05**	**6.74E-06**		**8.00E-05**	
217	2	Surface	**Percent**		**4.00E-01**	**5.16E-01**	**8.41E-02**			
219	1	Surface	Neptunium-237		6.76E-08		1.32E-09	6.06E-06	6.13E-06	24.37%
219	1	Surface	Nickel				1.34E-08		1.34E-08	0.05%
219	1	Surface	Total PAH		8.58E-07	3.00E-06	3.78E-09		3.86E-06	15.34%
219	1	Surface	Uranium-235		3.94E-08		4.38E-10	2.40E-06	2.44E-06	9.69%
219	1	Surface	Uranium-238		1.16E-06		9.29E-09	1.15E-05	1.27E-05	50.54%
219	1	Surface	**Totals**		**2.13E-06**	**3.00E-06**	**2.82E-08**	**2.00E-05**	**2.52E-05**	
219	1	Surface	**Percent**		**8.46E-02**	**1.19E-01**	**1.12E-03**	**7.95E-01**		
221	1	Surface	Chromium				4.51E-06		4.51E-06	6.39%
221	1	Surface	Nickel				1.58E-08		1.58E-08	0.02%
221	1	Surface	PCB, Total		1.57E-06	5.90E-06	3.71E-07		7.83E-06	11.10%
221	1	Surface	Total PAH		1.17E-05	4.09E-05	5.15E-08		5.26E-05	74.57%
221	1	Surface	Uranium-238		5.11E-07		4.07E-09	5.06E-06	5.58E-06	7.91%
221	1	Surface	**Totals**		**1.38E-05**	**4.68E-05**	**4.95E-06**	**5.06E-06**	**7.05E-05**	
221	1	Surface	**Percent**		**1.95E-01**	**6.63E-01**	**7.02E-02**	**7.18E-02**		
222	1	Surface	Chromium				3.04E-06		3.04E-06	2.98%
222	1	Surface	Nickel				1.83E-08		1.83E-08	0.02%
222	1	Surface	PCB, Total		4.38E-06	1.65E-05	1.04E-06		2.19E-05	21.52%
222	1	Surface	Total PAH		2.02E-06	7.08E-06	8.92E-09		9.11E-06	8.94%
222	1	Surface	Uranium-234		2.07E-06		2.68E-08	6.03E-08	2.16E-06	2.12%
222	1	Surface	Uranium-235		1.46E-07		1.62E-09	8.87E-06	9.02E-06	8.85%
222	1	Surface	Uranium-238		5.19E-06		4.14E-08	5.14E-05	5.66E-05	55.57%
222	1	Surface	**Totals**		**1.38E-05**	**2.36E-05**	**4.18E-06**	**6.04E-05**	**1.02E-04**	
222	1	Surface	**Percent**		**1.35E-01**	**2.31E-01**	**4.10E-02**	**5.92E-01**		
224	1	Surface	Chromium				2.89E-06		2.89E-06	0.03%
224	1	Surface	PCB, Total		1.49E-03	5.60E-03	3.53E-04		7.44E-03	75.53%
224	1	Surface	Total PAH		5.17E-04	1.81E-03	2.28E-06		2.33E-03	23.64%
224	1	Surface	Uranium-235		5.13E-08		5.70E-10	3.12E-06	3.18E-06	0.03%
224	1	Surface	Uranium-238		6.99E-06		5.57E-08	6.93E-05	7.63E-05	0.77%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
224	1	Surface	**Totals**		**2.01E-03**	**7.41E-03**	**3.58E-04**	**7.24E-05**	**9.85E-03**	
224	1	Surface	**Percent**		**2.04E-01**	**7.52E-01**	**3.63E-02**	**7.35E-03**		
225	1	Surface	Chromium				1.64E-06		1.64E-06	14.21%
225	1	Surface	Total PAH		8.90E-07	3.11E-06	3.92E-09		4.01E-06	34.70%
225	1	Surface	Uranium-238		5.40E-07		4.31E-09	5.35E-06	5.90E-06	51.09%
225	1	Surface	**Totals**		**1.43E-06**	**3.11E-06**	**1.65E-06**	**5.35E-06**	**1.15E-05**	
225	1	Surface	**Percent**		**1.24E-01**	**2.70E-01**	**1.43E-01**	**4.64E-01**		
226	1	Surface	Americium-241		4.44E-07		1.03E-08	1.03E-06	1.48E-06	0.05%
226	1	Surface	Cesium-137		1.45E-07		7.12E-12	1.55E-04	1.55E-04	4.76%
226	1	Surface	Chromium				2.74E-06		2.74E-06	0.08%
226	1	Surface	Cobalt-60		1.59E-10		2.54E-14	8.96E-07	8.96E-07	0.03%
226	1	Surface	Neptunium-237		3.27E-05		6.40E-07	2.93E-03	2.97E-03	91.00%
226	1	Surface	Nickel				4.17E-08		4.17E-08	0.00%
226	1	Surface	PCB, Total		4.67E-06	1.76E-05	1.11E-06		2.33E-05	0.72%
226	1	Surface	Plutonium-238		7.31E-07		1.62E-08	3.54E-09	7.50E-07	0.02%
226	1	Surface	Plutonium-239/240		2.27E-06		4.90E-08	3.00E-08	2.35E-06	0.07%
226	1	Surface	Technetium-99		4.79E-07		1.58E-10	9.29E-08	5.72E-07	0.02%
226	1	Surface	Thorium-230		1.21E-05		3.07E-07	8.99E-07	1.34E-05	0.41%
226	1	Surface	Total PAH		1.05E-06	3.67E-06	4.62E-09		4.73E-06	0.15%
226	1	Surface	Uranium-234		4.56E-06		5.90E-08	1.33E-07	4.76E-06	0.15%
226	1	Surface	Uranium-235		2.26E-07		2.51E-09	1.38E-05	1.40E-05	0.43%
226	1	Surface	Uranium-238		6.35E-06		5.07E-08	6.30E-05	6.94E-05	2.13%
226	1	Surface	**Totals**		**6.57E-05**	**2.12E-05**	**5.02E-06**	**3.17E-03**	**3.26E-03**	
226	1	Surface	**Percent**		**2.02E-02**	**6.52E-03**	**1.54E-03**	**9.72E-01**		
227	1	Surface	Beryllium		3.72E-06	9.99E-05	1.01E-09		1.04E-04	27.44%
227	1	Surface	Cesium-137		1.04E-08		5.10E-13	1.11E-05	1.11E-05	2.94%
227	1	Surface	Chromium				3.03E-06		3.03E-06	0.80%
227	1	Surface	Cobalt-60		7.77E-10		1.24E-13	4.37E-06	4.37E-06	1.16%
227	1	Surface	Neptunium-237		1.85E-07		3.62E-09	1.66E-05	1.68E-05	4.44%
227	1	Surface	Nickel				4.04E-08		4.04E-08	0.01%
227	1	Surface	PCB, Total		1.30E-05	4.89E-05	3.08E-06		6.49E-05	17.18%
227	1	Surface	Technetium-99		4.61E-07		1.52E-10	8.94E-08	5.50E-07	0.15%
227	1	Surface	Total PAH		3.86E-06	1.35E-05	1.70E-08		1.74E-05	4.60%
227	1	Surface	Uranium-234		3.07E-06		3.97E-08	8.95E-08	3.20E-06	0.85%
227	1	Surface	Uranium-235		3.06E-07		3.40E-09	1.86E-05	1.89E-05	5.01%
227	1	Surface	Uranium-238		1.22E-05		9.77E-08	1.21E-04	1.34E-04	35.42%
227	1	Surface	**Totals**		**3.68E-05**	**1.62E-04**	**6.31E-06**	**1.72E-04**	**3.78E-04**	
227	1	Surface	**Percent**		**9.75E-02**	**4.30E-01**	**1.67E-02**	**4.56E-01**		
227	2	Surface	Beryllium		3.58E-06	9.63E-05	9.78E-10		9.99E-05	47.75%
227	2	Surface	Chromium				3.62E-06		3.62E-06	1.73%
227	2	Surface	Cobalt				6.19E-08		6.19E-08	0.03%
227	2	Surface	Cobalt-60		6.96E-10		1.11E-13	3.91E-06	3.91E-06	1.87%
227	2	Surface	Nickel				2.49E-08		2.49E-08	0.01%
227	2	Surface	PCB, Total		1.82E-05	6.86E-05	4.32E-06		9.12E-05	43.59%
227	2	Surface	Total PAH		1.32E-06	4.62E-06	5.82E-09		5.95E-06	2.84%
227	2	Surface	Uranium-238		4.16E-07		3.32E-09	4.13E-06	4.55E-06	2.17%
227	2	Surface	**Totals**		**2.35E-05**	**1.70E-04**	**8.04E-06**	**8.04E-06**	**2.09E-04**	
227	2	Surface	**Percent**		**1.13E-01**	**8.11E-01**	**3.84E-02**	**3.84E-02**		
228	1	Surface	Cadmium		2.32E-06	2.50E-06	5.37E-09		4.82E-06	9.96%
228	1	Surface	Chromium				1.21E-05		1.21E-05	25.10%
228	1	Surface	Neptunium-237		1.63E-07		3.20E-09	1.47E-05	1.48E-05	30.62%
228	1	Surface	Nickel				1.58E-08		1.58E-08	0.03%
228	1	Surface	Total PAH		7.64E-07	2.67E-06	3.37E-09		3.44E-06	7.11%
228	1	Surface	Uranium-235		3.66E-08		4.06E-10	2.22E-06	2.26E-06	4.67%
228	1	Surface	Uranium-238		9.98E-07		7.96E-09	9.89E-06	1.09E-05	22.51%
228	1	Surface	**Totals**		**4.28E-06**	**5.17E-06**	**1.22E-05**	**2.68E-05**	**4.84E-05**	
228	1	Surface	**Percent**		**8.85E-02**	**1.07E-01**	**2.52E-01**	**5.53E-01**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
229	1	Surface	Nickel				1.82E-08		1.82E-08	0.11%
229	1	Surface	Total PAH		1.79E-06	6.27E-06	7.89E-09		8.07E-06	49.33%
229	1	Surface	Uranium-238		7.57E-07		6.04E-09	7.50E-06	8.27E-06	50.56%
229	1	Surface	**Totals**		**2.55E-06**	**6.27E-06**	**3.21E-08**	**7.50E-06**	**1.64E-05**	
229	1	Surface	**Percent**		**1.56E-01**	**3.83E-01**	**1.96E-03**	**4.59E-01**		
229	2	Surface	Arsenic		4.98E-05	4.02E-05	7.00E-08		9.00E-05	21.54%
229	2	Surface	Beryllium		5.32E-06	1.43E-04	1.45E-09		1.48E-04	35.49%
229	2	Surface	Chromium				1.87E-06		1.87E-06	0.45%
229	2	Surface	Neptunium-237		5.86E-08		1.15E-09	5.26E-06	5.32E-06	1.27%
229	2	Surface	Nickel				1.98E-08		1.98E-08	0.00%
229	2	Surface	Total PAH		1.94E-05	6.77E-05	8.53E-08		8.72E-05	20.86%
229	2	Surface	Uranium-234		2.43E-06		3.14E-08	7.08E-08	2.53E-06	0.61%
229	2	Surface	Uranium-235		1.73E-07		1.91E-09	1.05E-05	1.07E-05	2.55%
229	2	Surface	Uranium-238		6.59E-06		5.26E-08	6.53E-05	7.20E-05	17.22%
229	2	Surface	**Totals**		**8.37E-05**	**2.51E-04**	**2.14E-06**	**8.12E-05**	**4.18E-04**	
229	2	Surface	**Percent**		**2.00E-01**	**6.00E-01**	**5.12E-03**	**1.94E-01**		
483	1	Surface	Nickel				2.32E-08		2.32E-08	1.85%
483	1	Surface	Total PAH		2.73E-07	9.55E-07	1.20E-09		1.23E-06	98.15%
483	1	Surface	**Totals**		**2.73E-07**	**9.55E-07**	**2.44E-08**		**1.25E-06**	
483	1	Surface	**Percent**		**2.18E-01**	**7.62E-01**	**1.95E-02**			
486	1	Surface	Cesium-137		9.33E-08		4.59E-12	1.00E-04	1.00E-04	100.00%
486	1	Surface	**Totals**		**9.33E-08**		**4.59E-12**	**1.00E-04**	**1.00E-04**	
486	1	Surface	**Percent**		**0.09%**		**0.00%**	**99.91%**		
487	1	Surface	Cesium-137		7.53E-08		3.71E-12	8.07E-05	8.07E-05	100.00%
487	1	Surface	**Totals**		**7.53E-08**		**3.71E-12**	**8.07E-05**	**8.07E-05**	
487	1	Surface	**Percent**		**0.09%**		**0.00%**	**99.91%**		
488	1	Surface	Cesium-137		2.84E-08		1.40E-12	3.04E-05	3.04E-05	13.85%
488	1	Surface	PCB, Total		3.23E-05	1.21E-04	7.65E-06		1.61E-04	73.46%
488	1	Surface	Total PAH		2.85E-06	9.98E-06	1.26E-08		1.28E-05	5.85%
488	1	Surface	Uranium-235		3.06E-08		3.40E-10	1.86E-06	1.89E-06	0.86%
488	1	Surface	Uranium-238		1.20E-06		9.58E-09	1.19E-05	1.31E-05	5.97%
488	1	Surface	**Totals**		**3.64E-05**	**1.31E-04**	**7.67E-06**	**4.42E-05**	**2.20E-04**	
488	1	Surface	**Percent**		**1.66E-01**	**5.98E-01**	**3.49E-02**	**2.01E-01**		
489	1	Surface	Chromium				2.68E-06		2.68E-06	23.97%
489	1	Surface	Nickel				1.57E-08		1.57E-08	0.14%
489	1	Surface	Total PAH		9.39E-07	3.28E-06	4.14E-09		4.23E-06	37.85%
489	1	Surface	Uranium-238		3.89E-07		3.10E-09	3.86E-06	4.25E-06	38.04%
489	1	Surface	**Totals**		**1.33E-06**	**3.28E-06**	**2.70E-06**	**3.86E-06**	**1.12E-05**	
489	1	Surface	**Percent**		**1.19E-01**	**2.94E-01**	**2.42E-01**	**3.45E-01**		
492	1	Surface	Arsenic		3.45E-05	2.79E-05	4.86E-08		6.24E-05	1.57%
492	1	Surface	Beryllium		7.00E-05	1.88E-03	1.91E-08		1.95E-03	49.13%
492	1	Surface	Cadmium		1.87E-06	2.01E-06	4.33E-09		3.88E-06	0.10%
492	1	Surface	Chromium				6.69E-05		6.69E-05	1.68%
492	1	Surface	Cobalt-60		4.89E-10		7.78E-14	2.75E-06	2.75E-06	0.07%
492	1	Surface	Neptunium-237		4.27E-08		8.35E-10	3.83E-06	3.87E-06	0.10%
492	1	Surface	PCB, Total		1.38E-04	5.20E-04	3.28E-05		6.91E-04	17.38%
492	1	Surface	Uranium-234		1.07E-05		1.39E-07	3.13E-07	1.12E-05	0.28%
492	1	Surface	Uranium-235		1.17E-06		1.30E-08	7.15E-05	7.27E-05	1.83%
492	1	Surface	Uranium-238		1.01E-04		8.08E-07	1.00E-03	1.11E-03	27.86%
492	1	Surface	**Totals**		**3.58E-04**	**2.43E-03**	**1.01E-04**	**1.08E-03**	**3.97E-03**	
492	1	Surface	**Percent**		**9.00E-02**	**6.12E-01**	**2.53E-02**	**2.73E-01**		
493	1	Surface	Beryllium		6.67E-06	1.79E-04	1.82E-09		1.86E-04	76.08%
493	1	Surface	Chromium				4.25E-06		4.25E-06	1.74%
493	1	Surface	Cobalt				2.61E-07		2.61E-07	0.11%
493	1	Surface	Cobalt-60		6.91E-10		1.10E-13	3.88E-06	3.88E-06	1.59%
493	1	Surface	Neptunium-237		2.49E-08		4.87E-10	2.23E-06	2.26E-06	0.92%
493	1	Surface	Nickel				4.24E-08		4.24E-08	0.02%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
493	1	Surface	PCB, Total		8.14E-07	3.07E-06	1.93E-07		4.07E-06	1.67%
493	1	Surface	Total PAH		5.71E-06	2.00E-05	2.52E-08		2.57E-05	10.52%
493	1	Surface	Uranium-235		3.39E-08		3.76E-10	2.06E-06	2.10E-06	0.86%
493	1	Surface	Uranium-238		1.46E-06		1.16E-08	1.44E-05	1.59E-05	6.50%
493	1	Surface	**Totals**		**1.47E-05**	**2.02E-04**	**4.79E-06**	**2.26E-05**	**2.45E-04**	
493	1	Surface	**Percent**		**6.02E-02**	**8.28E-01**	**1.96E-02**	**9.25E-02**		
517	1	Surface	Beryllium		4.97E-06	1.34E-04	1.36E-09		1.39E-04	75.12%
517	1	Surface	Chromium				3.16E-06		3.16E-06	1.71%
517	1	Surface	Cobalt-60		3.24E-10		5.16E-14	1.82E-06	1.82E-06	0.99%
517	1	Surface	Neptunium-237		2.18E-07		4.27E-09	1.96E-05	1.98E-05	10.73%
517	1	Surface	Nickel				3.42E-08		3.42E-08	0.02%
517	1	Surface	PCB, Total		1.57E-06	5.90E-06	3.71E-07		7.83E-06	4.24%
517	1	Surface	Uranium-235		3.29E-08		3.65E-10	2.00E-06	2.03E-06	1.10%
517	1	Surface	Uranium-238		1.03E-06		8.21E-09	1.02E-05	1.12E-05	6.09%
517	1	Surface	**Totals**		**7.82E-06**	**1.40E-04**	**3.58E-06**	**3.36E-05**	**1.85E-04**	
517	1	Surface	**Percent**		**4.23E-02**	**7.56E-01**	**1.94E-02**	**1.82E-01**		
518	1	Surface	Carbazole		3.67E-07	9.87E-07			1.35E-06	0.53%
518	1	Surface	Cobalt				4.69E-08		4.69E-08	0.02%
518	1	Surface	Nickel				2.56E-09		2.56E-09	0.00%
518	1	Surface	PCB, Total		1.97E-06	7.43E-06	4.68E-07		9.87E-06	3.87%
518	1	Surface	Total PAH		5.30E-05	1.85E-04	2.33E-07		2.39E-04	93.53%
518	1	Surface	Uranium-235		1.38E-08		1.54E-10	8.42E-07	8.56E-07	0.34%
518	1	Surface	Uranium-238		4.01E-07		3.20E-09	3.97E-06	4.38E-06	1.72%
518	1	Surface	**Totals**		**5.57E-05**	**1.94E-04**	**7.54E-07**	**4.81E-06**	**2.55E-04**	
518	1	Surface	**Percent**		**2.19E-01**	**7.60E-01**	**2.96E-03**	**1.89E-02**		
520	1	Surface	Cesium-137		5.25E-08		2.58E-12	5.62E-05	5.63E-05	63.74%
520	1	Surface	Chromium				2.04E-06		2.04E-06	2.31%
520	1	Surface	Neptunium-237		1.34E-07		2.62E-09	1.20E-05	1.22E-05	13.76%
520	1	Surface	Nickel				5.18E-08		5.18E-08	0.06%
520	1	Surface	Thorium-230		2.89E-06		7.29E-08	2.14E-07	3.17E-06	3.59%
520	1	Surface	Total PAH		3.64E-07	1.27E-06	1.60E-09		1.64E-06	1.85%
520	1	Surface	Uranium-235		2.59E-08		2.87E-10	1.57E-06	1.60E-06	1.81%
520	1	Surface	Uranium-238		1.04E-06		8.29E-09	1.03E-05	1.14E-05	12.86%
520	1	Surface	**Totals**		**4.50E-06**	**1.27E-06**	**2.18E-06**	**8.03E-05**	**8.83E-05**	
520	1	Surface	**Percent**		**5.10E-02**	**1.44E-02**	**2.47E-02**	**9.10E-01**		
520	2	Surface	Beryllium		3.90E-06	1.05E-04	1.06E-09		1.09E-04	80.00%
520	2	Surface	Chromium				4.29E-06		4.29E-06	3.15%
520	2	Surface	Neptunium-237		1.53E-08		2.99E-10	1.37E-06	1.39E-06	1.02%
520	2	Surface	Nickel				6.18E-08		6.18E-08	0.05%
520	2	Surface	Total PAH		3.62E-06	1.27E-05	1.60E-08		1.63E-05	12.00%
520	2	Surface	Uranium-238		4.70E-07		3.75E-09	4.66E-06	5.14E-06	3.78%
520	2	Surface	**Totals**		**8.01E-06**	**1.17E-04**	**4.37E-06**	**6.03E-06**	**1.36E-04**	
520	2	Surface	**Percent**		**5.89E-02**	**8.65E-01**	**3.22E-02**	**4.44E-02**		
520	3	Surface	Chromium				2.55E-06		2.55E-06	19.31%
520	3	Surface	Nickel				5.27E-08		5.27E-08	0.40%
520	3	Surface	Total PAH		1.35E-06	4.72E-06	5.94E-09		6.08E-06	45.96%
520	3	Surface	Uranium-238		4.15E-07		3.31E-09	4.12E-06	4.54E-06	34.33%
520	3	Surface	**Totals**		**1.77E-06**	**4.72E-06**	**2.61E-06**	**4.12E-06**	**1.32E-05**	
520	3	Surface	**Percent**		**1.34E-01**	**3.57E-01**	**1.98E-01**	**3.12E-01**		
520	4	Surface	Chromium				2.46E-06		2.46E-06	3.74%
520	4	Surface	Neptunium-237		1.51E-07		2.96E-09	1.36E-05	1.37E-05	20.83%
520	4	Surface	Nickel				5.61E-08		5.61E-08	0.09%
520	4	Surface	Total PAH		6.31E-06	2.21E-05	2.78E-08		2.84E-05	43.18%
520	4	Surface	Uranium-235		4.97E-08		5.52E-10	3.02E-06	3.07E-06	4.67%
520	4	Surface	Uranium-238		1.66E-06		1.32E-08	1.64E-05	1.81E-05	27.49%
520	4	Surface	**Totals**		**8.17E-06**	**2.21E-05**	**2.56E-06**	**3.30E-05**	**6.58E-05**	
520	4	Surface	**Percent**		**1.24E-01**	**3.35E-01**	**3.89E-02**	**5.01E-01**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
520	5	Surface	Chromium				2.37E-06		2.37E-06	8.06%
520	5	Surface	Neptunium-237		3.16E-08		6.19E-10	2.84E-06	2.87E-06	9.77%
520	5	Surface	Nickel				2.92E-08		2.92E-08	0.10%
520	5	Surface	Total PAH		4.43E-06	1.55E-05	1.95E-08		1.99E-05	67.80%
520	5	Surface	Uranium-238		3.84E-07		3.06E-09	3.80E-06	4.19E-06	14.26%
520	5	Surface	**Totals**		**4.84E-06**	**1.55E-05**	**2.42E-06**	**6.64E-06**	**2.94E-05**	
520	5	Surface	**Percent**		**1.65E-01**	**5.27E-01**	**8.24E-02**	**2.26E-01**		
531	1	Surface	Arsenic		1.10E-04	8.87E-05	1.55E-07		1.99E-04	90.17%
531	1	Surface	Cadmium		1.84E-06	1.98E-06	4.27E-09		3.83E-06	1.74%
531	1	Surface	Chromium				3.24E-06		3.24E-06	1.47%
531	1	Surface	Nickel				3.23E-08		3.23E-08	0.01%
531	1	Surface	Total PAH		6.10E-07	2.13E-06	2.69E-09		2.75E-06	1.25%
531	1	Surface	Uranium-235		2.83E-08		3.15E-10	1.72E-06	1.75E-06	0.80%
531	1	Surface	Uranium-238		9.21E-07		7.34E-09	9.13E-06	1.01E-05	4.56%
531	1	Surface	**Totals**		**1.13E-04**	**9.28E-05**	**3.45E-06**	**1.09E-05**	**2.20E-04**	
531	1	Surface	**Percent**		**5.14E-01**	**4.21E-01**	**1.56E-02**	**4.92E-02**		
541	1	Surface	Americium-241		2.06E-06		4.78E-08	4.78E-06	6.89E-06	0.15%
541	1	Surface	Beryllium		4.70E-06	1.26E-04	1.28E-09		1.31E-04	2.93%
541	1	Surface	Cadmium		1.00E-06	1.08E-06	2.32E-09		2.08E-06	0.05%
541	1	Surface	Cesium-137		5.23E-08		2.57E-12	5.60E-05	5.61E-05	1.25%
541	1	Surface	Chromium				5.30E-05		5.30E-05	1.19%
541	1	Surface	Cobalt-60		5.13E-10		8.16E-14	2.88E-06	2.88E-06	0.06%
541	1	Surface	Naphthalene				5.72E-07		5.72E-07	0.01%
541	1	Surface	Neptunium-237		1.13E-08		2.21E-10	1.01E-06	1.02E-06	0.02%
541	1	Surface	Nickel				3.03E-09		3.03E-09	0.00%
541	1	Surface	PCB, Total		1.90E-04	7.15E-04	4.50E-05		9.50E-04	21.25%
541	1	Surface	Total PAH		2.66E-05	9.31E-05	1.17E-07		1.20E-04	2.68%
541	1	Surface	Uranium-234		2.84E-05		3.68E-07	8.29E-07	2.96E-05	0.66%
541	1	Surface	Uranium-235		3.61E-06		4.00E-08	2.19E-04	2.23E-04	4.99%
541	1	Surface	Uranium-238		2.65E-04		2.11E-06	2.63E-03	2.89E-03	64.74%
541	1	Surface	**Totals**		**5.21E-04**	**9.35E-04**	**1.01E-04**	**2.91E-03**	**4.47E-03**	
541	1	Surface	**Percent**		**1.17E-01**	**2.09E-01**	**2.27E-02**	**6.51E-01**		
561	1	Surface	Arsenic		3.89E-05	3.14E-05	5.47E-08		7.03E-05	12.19%
561	1	Surface	Beryllium		4.61E-06	1.24E-04	1.26E-09		1.29E-04	22.30%
561	1	Surface	Chromium				5.52E-06		5.52E-06	0.96%
561	1	Surface	Cobalt				7.37E-08		7.37E-08	0.01%
561	1	Surface	Cobalt-60		3.58E-09		5.70E-13	2.01E-05	2.02E-05	3.49%
561	1	Surface	Neptunium-237		5.53E-09		1.08E-10	4.96E-07	5.02E-07	0.09%
561	1	Surface	PCB, Total		3.26E-06	1.23E-05	7.74E-07		1.63E-05	2.83%
561	1	Surface	Total PAH		1.89E-06	6.60E-06	8.31E-09		8.49E-06	1.47%
561	1	Surface	Uranium-234		1.56E-06		2.02E-08	4.55E-08	1.63E-06	0.28%
561	1	Surface	Uranium-235		2.81E-07		3.11E-09	1.71E-05	1.74E-05	3.01%
561	1	Surface	Uranium-238		2.82E-05		2.25E-07	2.79E-04	3.08E-04	53.37%
561	1	Surface	**Totals**		**7.87E-05**	**1.74E-04**	**6.68E-06**	**3.17E-04**	**5.77E-04**	
561	1	Surface	**Percent**		**1.36E-01**	**3.02E-01**	**1.16E-02**	**5.50E-01**		
561	2	Surface	Arsenic		3.06E-05	2.47E-05	4.30E-08		5.53E-05	3.14%
561	2	Surface	Beryllium		4.27E-06	1.15E-04	1.16E-09		1.19E-04	6.76%
561	2	Surface	Cadmium		2.46E-07	2.64E-07	5.69E-10		5.11E-07	0.03%
561	2	Surface	Cesium-137		2.23E-08		1.10E-12	2.39E-05	2.39E-05	1.36%
561	2	Surface	Chromium				1.85E-05		1.85E-05	1.05%
561	2	Surface	Cobalt				7.86E-08		7.86E-08	0.00%
561	2	Surface	Cobalt-60		1.40E-09		2.23E-13	7.88E-06	7.88E-06	0.45%
561	2	Surface	Neptunium-237		9.61E-09		1.88E-10	8.63E-07	8.73E-07	0.05%
561	2	Surface	PCB, Total		5.12E-05	1.93E-04	1.22E-05		2.56E-04	14.56%
561	2	Surface	Total PAH		5.06E-06	1.77E-05	2.23E-08		2.28E-05	1.29%
561	2	Surface	Uranium-234		8.09E-06		1.05E-07	2.36E-07	8.43E-06	0.48%
561	2	Surface	Uranium-235		1.46E-06		1.62E-08	8.86E-05	9.01E-05	5.12%
561	2	Surface	Uranium-238		1.06E-04		8.45E-07	1.05E-03	1.16E-03	65.71%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
561	2	Surface	**Totals**		**2.07E-04**	**3.50E-04**	**3.18E-05**	**1.17E-03**	**1.76E-03**	
561	2	Surface	**Percent**		**1.17E-01**	**1.99E-01**	**1.81E-02**	**6.66E-01**		
562	1	Surface	Uranium-238		7.22E-07		5.76E-09	7.16E-06	7.89E-06	100.00%
562	1	Surface	**Totals**		**7.22E-07**		**5.76E-09**	**7.16E-06**	**7.89E-06**	
562	1	Surface	**Percent**		**9.15E-02**		**7.30E-04**	**9.08E-01**		
562	2	Surface	PCB, Total		4.95E-06	1.86E-05	1.17E-06		2.48E-05	1.35%
562	2	Surface	Uranium-234		1.06E-05		1.37E-07	3.10E-07	1.11E-05	0.61%
562	2	Surface	Uranium-235		1.84E-06		2.04E-08	1.12E-04	1.14E-04	6.22%
562	2	Surface	Uranium-238		1.54E-04		1.23E-06	1.52E-03	1.68E-03	91.82%
562	2	Surface	**Totals**		**1.71E-04**	**1.86E-05**	**2.56E-06**	**1.64E-03**	**1.83E-03**	
562	2	Surface	**Percent**		**9.36E-02**	**1.02E-02**	**1.40E-03**	**8.95E-01**		
562	3	Surface	Chromium				2.45E-06		2.45E-06	4.80%
562	3	Surface	PCB, Total		7.51E-07	2.83E-06	1.78E-07		3.76E-06	7.36%
562	3	Surface	Total PAH		2.51E-06	8.79E-06	1.11E-08		1.13E-05	22.15%
562	3	Surface	Uranium-235		3.35E-08		3.72E-10	2.04E-06	2.07E-06	4.05%
562	3	Surface	Uranium-238		2.88E-06		2.30E-08	2.86E-05	3.15E-05	61.64%
562	3	Surface	**Totals**		**6.18E-06**	**1.16E-05**	**2.67E-06**	**3.06E-05**	**5.11E-05**	
562	3	Surface	**Percent**		**1.21E-01**	**2.27E-01**	**5.22E-02**	**5.99E-01**		
562	4	Surface	Chromium				3.00E-06		3.00E-06	31.67%
562	4	Surface	Uranium-238		5.93E-07		4.73E-09	5.88E-06	6.47E-06	68.33%
562	4	Surface	**Totals**		**5.93E-07**		**3.01E-06**	**5.88E-06**	**9.48E-06**	
562	4	Surface	**Percent**		**6.26E-02**		**3.17E-01**	**6.20E-01**		
562	5	Surface	Chromium				9.85E-06		9.85E-06	4.42%
562	5	Surface	PCB, Total		2.97E-06	1.12E-05	7.06E-07		1.49E-05	6.69%
562	5	Surface	Total PAH		8.06E-07	2.82E-06	3.55E-09		3.63E-06	1.63%
562	5	Surface	Uranium-234		1.71E-06		2.21E-08	4.97E-08	1.78E-06	0.80%
562	5	Surface	Uranium-235		1.95E-07		2.17E-09	1.19E-05	1.21E-05	5.42%
562	5	Surface	Uranium-238		1.65E-05		1.32E-07	1.64E-04	1.80E-04	81.04%
562	5	Surface	**Totals**		**2.22E-05**	**1.40E-05**	**1.07E-05**	**1.76E-04**	**2.23E-04**	
562	5	Surface	**Percent**		**9.97%**	**6.30%**	**4.81%**	**78.92%**		
563	1	Surface	Cadmium		5.33E-07	5.74E-07	1.23E-09		1.11E-06	2.84%
563	1	Surface	Chromium				1.83E-05		1.83E-05	46.99%
563	1	Surface	PCB, Total		2.32E-06	8.73E-06	5.50E-07		1.16E-05	29.72%
563	1	Surface	Uranium-238		7.30E-07		5.82E-09	7.24E-06	7.98E-06	20.45%
563	1	Surface	**Totals**		**3.58E-06**	**9.30E-06**	**1.89E-05**	**7.24E-06**	**3.90E-05**	
563	1	Surface	**Percent**		**9.18E-02**	**2.38E-01**	**4.84E-01**	**1.86E-01**		
563	2	Surface	Cesium-137		3.53E-08		1.74E-12	3.78E-05	3.79E-05	89.79%
563	2	Surface	Uranium-238		3.94E-07		3.14E-09	3.91E-06	4.31E-06	10.21%
563	2	Surface	**Totals**		**4.30E-07**		**3.15E-09**	**4.17E-05**	**4.22E-05**	
563	2	Surface	**Percent**		**1.02E-02**		**7.46E-05**	**9.90E-01**		
564	1	Surface	Arsenic		1.01E-04	8.15E-05	1.42E-07		1.83E-04	26.61%
564	1	Surface	Beryllium		1.43E-05	3.84E-04	3.90E-09		3.98E-04	58.00%
564	1	Surface	Cadmium		1.17E-06	1.25E-06	2.70E-09		2.42E-06	0.35%
564	1	Surface	Cesium-137		3.38E-08		1.67E-12	3.62E-05	3.63E-05	5.29%
564	1	Surface	Chromium				4.82E-06		4.82E-06	0.70%
564	1	Surface	Nickel				4.46E-09		4.46E-09	0.00%
564	1	Surface	PCB, Total		6.04E-06	2.28E-05	1.43E-06		3.02E-05	4.41%
564	1	Surface	Thorium-230		1.28E-06		3.22E-08	9.44E-08	1.40E-06	0.20%
564	1	Surface	Uranium-234		1.38E-06		1.78E-08	4.02E-08	1.44E-06	0.21%
564	1	Surface	Uranium-235		7.95E-08		8.82E-10	4.84E-06	4.92E-06	0.72%
564	1	Surface	Uranium-238		2.20E-06		1.76E-08	2.19E-05	2.41E-05	3.51%
564	1	Surface	**Totals**		**1.27E-04**	**4.89E-04**	**6.47E-06**	**6.31E-05**	**6.86E-04**	
564	1	Surface	**Percent**		**18.57%**	**71.30%**	**0.94%**	**9.19%**		
567	3	Surface	Chromium				2.44E-06		2.44E-06	100.00%
567	3	Surface	**Totals**				**2.44E-06**		**2.44E-06**	
567	3	Surface	**Percent**				**1.00E+00**			
567	4	Surface	Chromium				1.05E-06		1.05E-06	25.69%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.32. ELCR for the Future Hypothetical Residential Receptor (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
567	4	Surface	Uranium-238		2.78E-07		2.21E-09	2.75E-06	3.03E-06	74.31%
567	4	Surface	**Totals**		**2.78E-07**		**1.05E-06**	**2.75E-06**	**4.08E-06**	
567	4	Surface	**Percent**		**6.80E-02**		**2.57E-01**	**6.75E-01**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
1	1	Surface	Beryllium	3.89E+00	5.33E-07	1.92E-04	6.72E-10		1.92E-04	98.29%
1	1	Surface	Cadmium	1.10E+00	1.33E-08	1.92E-07	1.42E-10		2.05E-07	0.10%
1	1	Surface	Cesium-137	5.91E-01	8.96E-10		1.59E-13	1.44E-06	1.44E-06	0.74%
1	1	Surface	Chromium	1.28E+01			7.75E-08		7.75E-08	0.04%
1	1	Surface	Neptunium-237	4.02E-01	2.28E-09		1.61E-10	3.07E-07	3.09E-07	0.16%
1	1	Surface	PCB, Total	1.76E-01	1.12E-08	5.65E-07	1.23E-08		5.89E-07	0.30%
1	1	Surface	Plutonium-239/240	6.14E+00	5.93E-08		4.62E-09	1.18E-09	6.51E-08	0.03%
1	1	Surface	Thorium-230	4.40E+01	3.11E-07		2.83E-08	3.46E-08	3.74E-07	0.19%
1	1	Surface	Uranium-235	1.06E-01	6.05E-10		2.42E-11	5.52E-08	5.58E-08	0.03%
1	1	Surface	Uranium-238	1.97E+00	1.45E-08		4.17E-10	2.16E-07	2.31E-07	0.12%
1	1	Surface	**Totals**		**9.47E-07**	**1.93E-04**	**1.24E-07**	**2.05E-06**	1.96E-04	
1	1	Surface	**Percent**		**0.48%**	**98.40%**	**0.06%**	**1.05%**		
1	2	Surface	Beryllium	8.23E+00	1.13E-06	4.06E-04	1.42E-09		4.07E-04	78.68%
1	2	Surface	Cadmium	6.46E+00	7.82E-08	1.13E-06	8.37E-10		1.21E-06	0.23%
1	2	Surface	Chromium	2.01E+02			1.22E-06		1.22E-06	0.24%
1	2	Surface	Nickel	5.75E+01			1.07E-09		1.07E-09	0.00%
1	2	Surface	PCB, Total	3.22E+01	2.05E-06	1.03E-04	2.25E-06		1.08E-04	20.85%
1	2	Surface	**Totals**		**3.26E-06**	**5.10E-04**	**3.47E-06**		5.17E-04	
1	2	Surface	**Percent**		**0.63%**	**98.70%**	**0.67%**			
1	3	Surface	Chromium	1.45E+01			8.74E-08		8.74E-08	8.61%
1	3	Surface	PCB, Total	2.17E-01	1.38E-08	6.97E-07	1.51E-08		7.26E-07	71.48%
1	3	Surface	Uranium-238	1.73E+00	1.27E-08		3.65E-10	1.89E-07	2.02E-07	19.91%
1	3	Surface	**Totals**		**2.65E-08**	**6.97E-07**	**1.03E-07**	**1.89E-07**	1.02E-06	
1	3	Surface	**Percent**		**2.61%**	**68.62%**	**10.14%**	**18.62%**		
1	4	Surface	Beryllium	7.25E-01	9.93E-08	3.57E-05	1.25E-10		3.58E-05	96.49%
1	4	Surface	Chromium	9.30E+01			5.62E-07		5.62E-07	1.51%
1	4	Surface	Cobalt-60	2.20E-02	3.10E-11		1.78E-14	2.62E-07	2.62E-07	0.70%
1	4	Surface	Nickel	4.69E+01			8.77E-10		8.77E-10	0.00%
1	4	Surface	PCB, Total	1.30E-01	8.28E-09	4.17E-07	9.07E-09		4.35E-07	1.17%
1	4	Surface	Thorium-230	5.03E+00	3.56E-08		3.24E-09	3.95E-09	4.27E-08	0.12%
1	4	Surface	**Totals**		**1.43E-07**	**3.62E-05**	**5.75E-07**	**2.66E-07**	3.71E-05	
1	4	Surface	**Percent**		**0.39%**	**97.35%**	**1.55%**	**0.71%**		
1	5	Surface	Beryllium	8.30E+00	1.14E-06	4.09E-04	1.43E-09		4.10E-04	99.46%
1	5	Surface	Cadmium	1.20E+00	1.45E-08	2.09E-07	1.55E-10		2.24E-07	0.05%
1	5	Surface	Nickel	4.07E+01			7.61E-10		7.61E-10	0.00%
1	5	Surface	PCB, Total	2.70E-01	1.72E-08	8.67E-07	1.88E-08		9.03E-07	0.22%
1	5	Surface	Total PAH	9.83E-02	2.29E-08	1.07E-06	4.65E-10		1.09E-06	0.27%
1	5	Surface	**Totals**		**1.19E-06**	**4.11E-04**	**2.17E-08**		4.12E-04	
1	5	Surface	**Percent**		**0.29%**	**99.71%**	**0.01%**			
12	1	Surface	Arsenic	1.34E+01	6.40E-07	6.91E-06	4.16E-09		7.55E-06	2.14%
12	1	Surface	Beryllium	6.72E+00	9.21E-07	3.31E-04	1.16E-09		3.32E-04	94.31%
12	1	Surface	Cadmium	1.02E+00	1.23E-08	1.78E-07	1.32E-10		1.90E-07	0.05%
12	1	Surface	Chromium	6.33E+01			3.82E-07		3.82E-07	0.11%
12	1	Surface	Cobalt	9.16E+00			5.93E-09		5.93E-09	0.00%
12	1	Surface	Nickel	7.74E+01			1.45E-09		1.45E-09	0.00%
12	1	Surface	PCB, Total	3.90E-01	2.48E-08	1.25E-06	2.72E-08		1.30E-06	0.37%
12	1	Surface	Total PAH	1.70E-01	3.95E-08	1.85E-06	8.04E-10		1.89E-06	0.54%
12	1	Surface	Uranium-234	1.50E+01	8.31E-08		3.87E-09	3.63E-09	9.06E-08	0.03%
12	1	Surface	Uranium-235	1.53E+00	8.71E-09		3.48E-10	7.95E-07	8.04E-07	0.23%
12	1	Surface	Uranium-238	6.68E+01	4.91E-07		1.41E-08	7.31E-06	7.81E-06	2.22%
12	1	Surface	**Totals**		**2.22E-06**	**3.41E-04**	**4.42E-07**	**8.10E-06**	3.52E-04	
12	1	Surface	**Percent**		**0.63%**	**96.94%**	**0.13%**	**2.30%**		
13	1	Surface	PCB, Total	7.00E-01	4.46E-08	2.25E-06	4.89E-08		2.34E-06	100.00%
13	1	Surface	**Totals**		**4.46E-08**	**2.25E-06**	**4.89E-08**		2.34E-06	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
13	1	Surface	**Percent**		**1.90%**	**96.01%**	**2.09%**			
13	4	Surface	Uranium-238	1.32E+00	9.70E-09		2.79E-10	1.44E-07	1.54E-07	100.00%
13	4	Surface	**Totals**		**9.70E-09**		**2.79E-10**	**1.44E-07**	1.54E-07	
13	4	Surface	**Percent**		**6.29%**		**0.18%**	**93.53%**		
13	5	Surface	Cadmium	1.20E+00	1.45E-08	2.09E-07	1.55E-10		2.24E-07	4.90%
13	5	Surface	Chromium	1.51E+01			9.12E-08		9.12E-08	2.00%
13	5	Surface	Nickel	1.17E+02			2.18E-09		2.18E-09	0.05%
13	5	Surface	PCB, Total	1.05E+00	6.68E-08	3.37E-06	7.32E-08		3.51E-06	76.86%
13	5	Surface	Total PAH	6.65E-02	1.55E-08	7.23E-07	3.14E-10		7.39E-07	16.19%
13	5	Surface	**Totals**		**9.68E-08**	**4.30E-06**	**1.67E-07**		4.57E-06	
13	5	Surface	**Percent**		**2.12%**	**94.22%**	**3.66%**			
13	6	Surface	Uranium-238	1.32E+00	9.67E-09		2.78E-10	1.44E-07	1.54E-07	100.00%
13	6	Surface	**Totals**		**9.67E-09**		**2.78E-10**	**1.44E-07**	1.54E-07	
13	6	Surface	**Percent**		**6.29%**		**0.18%**	**93.53%**		
13	9	Surface	Neptunium-237	8.90E-01	5.05E-09		3.56E-10	6.79E-07	6.85E-07	43.92%
13	9	Surface	Uranium-235	3.11E-01	1.77E-09		7.09E-11	1.62E-07	1.64E-07	10.50%
13	9	Surface	Uranium-238	6.08E+00	4.47E-08		1.28E-09	6.65E-07	7.11E-07	45.58%
13	9	Surface	**Totals**		**5.15E-08**		**1.71E-09**	**1.51E-06**	1.56E-06	
13	9	Surface	**Percent**		**3.30%**		**0.11%**	**96.59%**		
13	11	Surface	Cobalt-60	1.30E-02	1.83E-11		1.05E-14	1.55E-07	1.55E-07	100.00%
13	11	Surface	**Totals**		**1.83E-11**		**1.05E-14**	**1.55E-07**	1.55E-07	
13	11	Surface	**Percent**		**0.01%**		**0.00%**	**99.99%**		
14	1	Surface	Americium-241	1.27E+00	9.62E-09		8.04E-10	3.35E-08	4.40E-08	0.50%
14	1	Surface	Arsenic	1.10E+01	5.25E-07	5.67E-06	3.41E-09		6.19E-06	70.39%
14	1	Surface	Chromium	6.36E+01			3.84E-07		3.84E-07	4.37%
14	1	Surface	Neptunium-237	2.14E-01	1.21E-09		8.55E-11	1.63E-07	1.65E-07	1.87%
14	1	Surface	Nickel	1.40E+02			2.61E-09		2.61E-09	0.03%
14	1	Surface	PCB, Total	5.00E-01	3.19E-08	1.61E-06	3.49E-08		1.67E-06	19.00%
14	1	Surface	Technetium-99	4.06E+02	1.09E-07		1.29E-10	3.17E-08	1.41E-07	1.60%
14	1	Surface	Uranium-238	1.69E+00	1.24E-08		3.57E-10	1.85E-07	1.98E-07	2.24%
14	1	Surface	**Totals**		**6.89E-07**	**7.27E-06**	**4.26E-07**	**4.13E-07**	8.80E-06	
14	1	Surface	**Percent**		**7.82%**	**82.63%**	**4.85%**	**4.70%**		
14	2	Surface	Arsenic	1.45E+01	6.94E-07	7.50E-06	4.51E-09		8.20E-06	14.33%
14	2	Surface	Beryllium	7.10E-01	9.73E-08	3.50E-05	1.23E-10		3.51E-05	61.33%
14	2	Surface	Chromium	6.65E+01			4.02E-07		4.02E-07	0.70%
14	2	Surface	Neptunium-237	7.70E-01	4.37E-09		3.08E-10	5.88E-07	5.92E-07	1.04%
14	2	Surface	Nickel	6.78E+02			1.27E-08		1.27E-08	0.02%
14	2	Surface	PCB, Total	3.90E-01	2.48E-08	1.25E-06	2.72E-08		1.30E-06	2.28%
14	2	Surface	Thorium-230	5.98E+00	4.23E-08		3.85E-09	4.70E-09	5.08E-08	0.09%
14	2	Surface	Total PAH	3.38E-01	7.86E-08	3.68E-06	1.60E-09		3.76E-06	6.57%
14	2	Surface	Uranium-234	3.24E+01	1.79E-07		8.34E-09	7.83E-09	1.95E-07	0.34%
14	2	Surface	Uranium-235	2.00E+00	1.14E-08		4.56E-10	1.04E-06	1.05E-06	1.84%
14	2	Surface	Uranium-238	5.61E+01	4.12E-07		1.18E-08	6.13E-06	6.56E-06	11.46%
14	2	Surface	**Totals**		**1.54E-06**	**4.74E-05**	**4.73E-07**	**7.77E-06**	5.72E-05	
14	2	Surface	**Percent**		**2.70%**	**82.89%**	**0.83%**	**13.59%**		
14	3	Surface	Arsenic	1.30E+01	6.20E-07	6.69E-06	4.03E-09		7.32E-06	19.86%
14	3	Surface	Chromium	7.01E+01			4.24E-07		4.24E-07	1.15%
14	3	Surface	Nickel	5.76E+02			1.08E-08		1.08E-08	0.03%
14	3	Surface	PCB, Total	8.65E+00	5.51E-07	2.78E-05	6.04E-07		2.89E-05	78.49%
14	3	Surface	Uranium-238	1.50E+00	1.10E-08		3.17E-10	1.64E-07	1.75E-07	0.48%
14	3	Surface	**Totals**		**1.18E-06**	**3.45E-05**	**1.04E-06**	**1.64E-07**	3.68E-05	
14	3	Surface	**Percent**		**3.21%**	**93.52%**	**2.83%**	**0.45%**		
14	4	Surface	Arsenic	1.33E+01	6.35E-07	6.85E-06	4.12E-09		7.49E-06	12.57%
14	4	Surface	Chromium	7.20E+01			4.35E-07		4.35E-07	0.73%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
14	4	Surface	Neptunium-237	2.68E+00	1.52E-08		1.07E-09	2.05E-06	2.06E-06	3.46%
14	4	Surface	Nickel	7.31E+02			1.37E-08		1.37E-08	0.02%
14	4	Surface	PCB, Total	6.61E+00	4.21E-07	2.12E-05	4.61E-07		2.21E-05	37.07%
14	4	Surface	Thorium-230	8.33E+00	5.89E-08		5.36E-09	6.54E-09	7.08E-08	0.12%
14	4	Surface	Total PAH	2.51E-01	5.83E-08	2.73E-06	1.19E-09		2.79E-06	4.68%
14	4	Surface	Uranium-234	1.13E+02	6.25E-07		2.91E-08	2.73E-08	6.81E-07	1.14%
14	4	Surface	Uranium-235	8.00E+00	4.56E-08		1.82E-09	4.17E-06	4.21E-06	7.07%
14	4	Surface	Uranium-238	1.69E+02	1.24E-06		3.57E-08	1.85E-05	1.98E-05	33.14%
14	4	Surface	**Totals**		**3.10E-06**	**3.08E-05**	**9.88E-07**	**2.47E-05**	5.96E-05	
14	4	Surface	**Percent**		**5.20%**	**51.67%**	**1.66%**	**41.47%**		
14	5	Surface	Arsenic	1.31E+01	6.25E-07	6.75E-06	4.06E-09		7.38E-06	26.67%
14	5	Surface	Cadmium	3.90E+00	4.72E-08	6.80E-07	5.05E-10		7.28E-07	2.63%
14	5	Surface	Chromium	4.70E+01			2.84E-07		2.84E-07	1.03%
14	5	Surface	Cobalt	1.40E+01			9.06E-09		9.06E-09	0.03%
14	5	Surface	Neptunium-237	1.74E+00	9.87E-09		6.95E-10	1.33E-06	1.34E-06	4.84%
14	5	Surface	Nickel	4.61E+02			8.63E-09		8.63E-09	0.03%
14	5	Surface	PCB, Total	1.00E+00	6.37E-08	3.21E-06	6.98E-08		3.34E-06	12.09%
14	5	Surface	Technetium-99	1.01E+02	2.71E-08		3.22E-11	7.88E-09	3.50E-08	0.13%
14	5	Surface	Thorium-230	1.39E+01	9.83E-08		8.95E-09	1.09E-08	1.18E-07	0.43%
14	5	Surface	Total PAH	1.21E-01	2.81E-08	1.32E-06	5.72E-10		1.35E-06	4.86%
14	5	Surface	Uranium-234	5.22E+01	2.89E-07		1.34E-08	1.26E-08	3.15E-07	1.14%
14	5	Surface	Uranium-235	3.33E+00	1.90E-08		7.59E-10	1.73E-06	1.75E-06	6.34%
14	5	Surface	Uranium-238	9.42E+01	6.92E-07		1.99E-08	1.03E-05	1.10E-05	39.79%
14	5	Surface	**Totals**		**1.90E-06**	**1.20E-05**	**4.20E-07**	**1.34E-05**	2.77E-05	
14	5	Surface	**Percent**		**6.86%**	**43.22%**	**1.52%**	**48.40%**		
14	6	Surface	Cadmium	8.40E-01	1.02E-08	1.46E-07	1.09E-10		1.57E-07	0.54%
14	6	Surface	Chromium	4.46E+02			2.69E-06		2.69E-06	9.30%
14	6	Surface	Neptunium-237	2.65E+00	1.50E-08		1.06E-09	2.02E-06	2.04E-06	7.04%
14	6	Surface	Nickel	9.63E+02			1.80E-08		1.80E-08	0.06%
14	6	Surface	PCB, Total	5.00E+00	3.19E-07	1.61E-05	3.49E-07		1.67E-05	57.73%
14	6	Surface	Uranium-234	3.41E+01	1.89E-07		8.78E-09	8.24E-09	2.06E-07	0.71%
14	6	Surface	Uranium-235	2.27E+00	1.30E-08		5.18E-10	1.18E-06	1.20E-06	4.13%
14	6	Surface	Uranium-238	5.08E+01	3.73E-07		1.07E-08	5.55E-06	5.94E-06	20.49%
14	6	Surface	**Totals**		**9.19E-07**	**1.62E-05**	**3.08E-06**	**8.77E-06**	2.90E-05	
14	6	Surface	**Percent**		**3.17%**	**55.93%**	**10.64%**	**30.26%**		
14	7	Surface	Arsenic	1.13E+01	5.40E-07	5.83E-06	3.51E-09		6.38E-06	16.93%
14	7	Surface	Cadmium	2.70E+00	3.27E-08	4.71E-07	3.50E-10		5.04E-07	1.34%
14	7	Surface	Chromium	6.46E+01			3.90E-07		3.90E-07	1.04%
14	7	Surface	Neptunium-237	1.49E+00	8.45E-09		5.96E-10	1.14E-06	1.15E-06	3.05%
14	7	Surface	Nickel	1.22E+03			2.29E-08		2.29E-08	0.06%
14	7	Surface	PCB, Total	7.60E+00	4.84E-07	2.44E-05	5.31E-07		2.54E-05	67.56%
14	7	Surface	Total PAH	6.31E-02	1.47E-08	6.87E-07	2.99E-10		7.02E-07	1.87%
14	7	Surface	Uranium-234	1.28E+01	7.08E-08		3.29E-09	3.09E-09	7.72E-08	0.20%
14	7	Surface	Uranium-235	9.60E-01	5.48E-09		2.19E-10	5.00E-07	5.06E-07	1.34%
14	7	Surface	Uranium-238	2.13E+01	1.57E-07		4.50E-09	2.33E-06	2.49E-06	6.61%
14	7	Surface	**Totals**		**1.31E-06**	**3.14E-05**	**9.57E-07**	**3.97E-06**	3.76E-05	
14	7	Surface	**Percent**		**3.49%**	**83.43%**	**2.54%**	**10.54%**		
14	8	Surface	Arsenic	1.14E+01	5.44E-07	5.87E-06	3.53E-09		6.42E-06	25.05%
14	8	Surface	Chromium	4.60E+01			2.78E-07		2.78E-07	1.09%
14	8	Surface	Neptunium-237	8.80E-01	4.99E-09		3.52E-10	6.72E-07	6.77E-07	2.64%
14	8	Surface	Nickel	6.73E+02			1.26E-08		1.26E-08	0.05%
14	8	Surface	PCB, Total	5.00E+00	3.19E-07	1.61E-05	3.49E-07		1.67E-05	65.26%
14	8	Surface	Total PAH	6.28E-02	1.46E-08	6.83E-07	2.97E-10		6.98E-07	2.72%
14	8	Surface	Uranium-235	2.38E-01	1.36E-09		5.43E-11	1.24E-07	1.25E-07	0.49%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
14	8	Surface	Uranium-238	5.92E+00	4.35E-08		1.25E-09	6.47E-07	6.92E-07	2.70%
14	8	Surface	**Totals**		**9.27E-07**	**2.26E-05**	**6.45E-07**	**1.44E-06**	2.56E-05	
14	8	Surface	**Percent**		**3.62%**	**88.24%**	**2.52%**	**5.63%**		
14	9	Surface	Arsenic	1.40E+01	6.71E-07	7.25E-06	4.36E-09		7.92E-06	3.60%
14	9	Surface	Cadmium	9.40E-01	1.14E-08	1.64E-07	1.22E-10		1.75E-07	0.08%
14	9	Surface	Cesium-137	4.53E-01	6.87E-10		1.22E-13	1.10E-06	1.10E-06	0.50%
14	9	Surface	Chromium	4.64E+01			2.81E-07		2.81E-07	0.13%
14	9	Surface	Neptunium-237	1.09E+01	6.20E-08		4.37E-09	8.34E-06	8.41E-06	3.82%
14	9	Surface	Nickel	9.43E+02			1.76E-08		1.76E-08	0.01%
14	9	Surface	PCB, Total	6.84E+00	4.36E-07	2.20E-05	4.78E-07		2.29E-05	10.39%
14	9	Surface	Technetium-99	1.96E+02	5.25E-08		6.24E-11	1.53E-08	6.79E-08	0.03%
14	9	Surface	Total PAH	4.87E-01	1.13E-07	5.31E-06	2.31E-09		5.42E-06	2.46%
14	9	Surface	Uranium-234	8.32E+02	4.60E-06		2.14E-07	2.01E-07	5.02E-06	2.28%
14	9	Surface	Uranium-235	5.46E+01	3.11E-07		1.24E-08	2.84E-05	2.87E-05	13.04%
14	9	Surface	Uranium-238	1.20E+03	8.82E-06		2.53E-07	1.31E-04	1.40E-04	63.67%
14	9	Surface	**Totals**		**1.51E-05**	**3.47E-05**	**1.27E-06**	**1.69E-04**	2.20E-04	
14	9	Surface	**Percent**		**6.85%**	**15.75%**	**0.58%**	**76.83%**		
14	10	Surface	Arsenic	1.12E+01	5.37E-07	5.80E-06	3.49E-09		6.34E-06	12.97%
14	10	Surface	Chromium	4.19E+01			2.53E-07		2.53E-07	0.52%
14	10	Surface	Neptunium-237	2.64E+00	1.50E-08		1.06E-09	2.02E-06	2.03E-06	4.15%
14	10	Surface	Nickel	6.00E+02			1.12E-08		1.12E-08	0.02%
14	10	Surface	PCB, Total	9.38E+00	5.98E-07	3.01E-05	6.55E-07		3.14E-05	64.18%
14	10	Surface	Total PAH	2.72E-01	6.31E-08	2.96E-06	1.28E-09		3.02E-06	6.18%
14	10	Surface	Uranium-234	2.42E+01	1.34E-07		6.23E-09	5.85E-09	1.46E-07	0.30%
14	10	Surface	Uranium-235	1.76E+00	1.00E-08		4.01E-10	9.16E-07	9.27E-07	1.90%
14	10	Surface	Uranium-238	4.09E+01	3.01E-07		8.64E-09	4.47E-06	4.78E-06	9.78%
14	10	Surface	**Totals**		**1.66E-06**	**3.89E-05**	**9.40E-07**	**7.41E-06**	4.89E-05	
14	10	Surface	**Percent**		**3.39%**	**79.53%**	**1.92%**	**15.15%**		
15	1	Surface	Arsenic	1.24E+01	5.91E-07	6.38E-06	3.84E-09		6.98E-06	25.98%
15	1	Surface	Chromium	5.61E+01			3.39E-07		3.39E-07	1.26%
15	1	Surface	Nickel	1.33E+02			2.48E-09		2.48E-09	0.01%
15	1	Surface	PCB, Total	7.80E-02	4.97E-09	2.50E-07	5.44E-09		2.61E-07	0.97%
15	1	Surface	Total PAH	1.71E+00	3.99E-07	1.87E-05	8.11E-09		1.91E-05	70.97%
15	1	Surface	Uranium-238	1.85E+00	1.36E-08		3.91E-10	2.02E-07	2.16E-07	0.80%
15	1	Surface	**Totals**		**1.01E-06**	**2.53E-05**	**3.59E-07**	**2.02E-07**	2.69E-05	
15	1	Surface	**Percent**		**3.75%**	**94.16%**	**1.34%**	**0.75%**		
15	2	Surface	Arsenic	1.63E+01	7.77E-07	8.39E-06	5.05E-09		9.17E-06	25.60%
15	2	Surface	Chromium	5.90E+01			3.57E-07		3.57E-07	0.99%
15	2	Surface	Neptunium-237	1.35E-01	7.65E-10		5.40E-11	1.03E-07	1.04E-07	0.29%
15	2	Surface	Nickel	1.97E+02			3.69E-09		3.69E-09	0.01%
15	2	Surface	PCB, Total	3.30E-01	2.10E-08	1.06E-06	2.30E-08		1.10E-06	3.08%
15	2	Surface	Total PAH	2.11E+00	4.90E-07	2.29E-05	9.97E-09		2.34E-05	65.41%
15	2	Surface	Uranium-234	6.51E+00	3.60E-08		1.68E-09	1.57E-09	3.92E-08	0.11%
15	2	Surface	Uranium-235	3.80E-01	2.17E-09		8.67E-11	1.98E-07	2.00E-07	0.56%
15	2	Surface	Uranium-238	1.21E+01	8.89E-08		2.55E-09	1.32E-06	1.41E-06	3.95%
15	2	Surface	**Totals**		**1.42E-06**	**3.24E-05**	**4.03E-07**	**1.63E-06**	3.58E-05	
15	2	Surface	**Percent**		**3.95%**	**90.39%**	**1.12%**	**4.54%**		
15	3	Surface	Arsenic	2.60E+01	1.24E-06	1.34E-05	8.07E-09		1.47E-05	13.18%
15	3	Surface	Beryllium	7.60E-01	1.04E-07	3.75E-05	1.31E-10		3.76E-05	33.78%
15	3	Surface	Cadmium	1.19E+01	1.44E-07	2.07E-06	1.54E-09		2.22E-06	2.00%
15	3	Surface	Chromium	7.53E+01			4.55E-07		4.55E-07	0.41%
15	3	Surface	Cobalt	3.41E+01			2.21E-08		2.21E-08	0.02%
15	3	Surface	Neptunium-237	4.10E+00	2.32E-08		1.64E-09	3.13E-06	3.15E-06	2.84%
15	3	Surface	Nickel	7.57E+02			1.41E-08		1.41E-08	0.01%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
15	3	Surface	PCB, Total	6.82E+00	4.35E-07	2.19E-05	4.76E-07		2.28E-05	20.52%
15	3	Surface	Technetium-99	3.67E+02	9.84E-08		1.17E-10	2.86E-08	1.27E-07	0.11%
15	3	Surface	Thorium-230	7.23E+00	5.11E-08		4.65E-09	5.68E-09	6.14E-08	0.06%
15	3	Surface	Total PAH	1.45E+00	3.38E-07	1.58E-05	6.88E-09		1.62E-05	14.54%
15	3	Surface	Uranium-234	6.96E+01	3.85E-07		1.79E-08	1.68E-08	4.20E-07	0.38%
15	3	Surface	Uranium-235	4.21E+00	2.40E-08		9.60E-10	2.19E-06	2.22E-06	1.99%
15	3	Surface	Uranium-238	9.67E+01	7.11E-07		2.04E-08	1.06E-05	1.13E-05	10.16%
15	3	Surface	**Totals**		**3.56E-06**	**9.07E-05**	**1.03E-06**	**1.59E-05**	1.11E-04	
15	3	Surface	**Percent**		**3.20%**	**81.54%**	**0.93%**	**14.34%**		
15	4	Surface	Arsenic	3.47E+01	1.66E-06	1.79E-05	1.08E-08		1.95E-05	13.95%
15	4	Surface	Cadmium	1.40E+00	1.69E-08	2.44E-07	1.81E-10		2.61E-07	0.19%
15	4	Surface	Chromium	1.02E+02			6.18E-07		6.18E-07	0.44%
15	4	Surface	Neptunium-237	8.00E-01	4.54E-09		3.20E-10	6.11E-07	6.15E-07	0.44%
15	4	Surface	Nickel	1.37E+03			2.57E-08		2.57E-08	0.02%
15	4	Surface	PCB, Total	2.67E+01	1.70E-06	8.58E-05	1.87E-06		8.94E-05	63.79%
15	4	Surface	Total PAH	2.44E+00	5.69E-07	2.66E-05	1.16E-08		2.72E-05	19.41%
15	4	Surface	Uranium-234	1.07E+01	5.92E-08		2.75E-09	2.59E-09	6.45E-08	0.05%
15	4	Surface	Uranium-235	4.30E-01	2.45E-09		9.81E-11	2.24E-07	2.26E-07	0.16%
15	4	Surface	Uranium-238	1.87E+01	1.37E-07		3.95E-09	2.04E-06	2.19E-06	1.56%
15	4	Surface	**Totals**		**4.15E-06**	**1.31E-04**	**2.54E-06**	**2.88E-06**	1.40E-04	
15	4	Surface	**Percent**		**2.96%**	**93.17%**	**1.81%**	**2.06%**		
15	5	Surface	Arsenic	1.28E+01	6.11E-07	6.60E-06	3.97E-09		7.22E-06	7.25%
15	5	Surface	Cadmium	1.50E+00	1.82E-08	2.61E-07	1.94E-10		2.80E-07	0.28%
15	5	Surface	Chromium	4.28E+01			2.59E-07		2.59E-07	0.26%
15	5	Surface	Neptunium-237	6.90E-01	3.91E-09		2.76E-10	5.27E-07	5.31E-07	0.53%
15	5	Surface	Nickel	5.10E+02			9.54E-09		9.54E-09	0.01%
15	5	Surface	PCB, Total	2.51E+01	1.60E-06	8.07E-05	1.75E-06		8.41E-05	84.44%
15	5	Surface	Technetium-99	1.07E+02	2.87E-08		3.41E-11	8.35E-09	3.71E-08	0.04%
15	5	Surface	Total PAH	5.11E-01	1.19E-07	5.56E-06	2.41E-09		5.68E-06	5.70%
15	5	Surface	Uranium-234	5.83E+00	3.22E-08		1.50E-09	1.41E-09	3.51E-08	0.04%
15	5	Surface	Uranium-235	4.60E-01	2.62E-09		1.05E-10	2.40E-07	2.42E-07	0.24%
15	5	Surface	Uranium-238	1.03E+01	7.57E-08		2.17E-09	1.13E-06	1.20E-06	1.21%
15	5	Surface	**Totals**		**2.49E-06**	**9.31E-05**	**2.03E-06**	**1.90E-06**	9.95E-05	
15	5	Surface	**Percent**		**2.50%**	**93.54%**	**2.04%**	**1.91%**		
15	6	Surface	Arsenic	1.24E+01	5.94E-07	6.41E-06	3.86E-09		7.01E-06	14.32%
15	6	Surface	Cadmium	1.50E+00	1.82E-08	2.61E-07	1.94E-10		2.80E-07	0.57%
15	6	Surface	Chromium	5.80E+01			3.50E-07		3.50E-07	0.72%
15	6	Surface	Cobalt	1.62E+01			1.05E-08		1.05E-08	0.02%
15	6	Surface	Neptunium-237	6.40E-01	3.63E-09		2.56E-10	4.89E-07	4.92E-07	1.01%
15	6	Surface	Nickel	3.24E+02			6.06E-09		6.06E-09	0.01%
15	6	Surface	PCB, Total	6.17E+00	3.93E-07	1.98E-05	4.30E-07		2.06E-05	42.10%
15	6	Surface	Total PAH	1.62E+00	3.78E-07	1.77E-05	7.68E-09		1.81E-05	36.86%
15	6	Surface	Uranium-234	8.74E+00	4.83E-08		2.25E-09	2.11E-09	5.27E-08	0.11%
15	6	Surface	Uranium-235	5.70E-01	3.25E-09		1.30E-10	2.97E-07	3.00E-07	0.61%
15	6	Surface	Uranium-238	1.54E+01	1.13E-07		3.25E-09	1.68E-06	1.80E-06	3.67%
15	6	Surface	**Totals**		**1.55E-06**	**4.41E-05**	**8.15E-07**	**2.47E-06**	4.90E-05	
15	6	Surface	**Percent**		**3.17%**	**90.13%**	**1.66%**	**5.04%**		
15	7	Surface	Arsenic	1.61E+01	7.68E-07	8.30E-06	4.99E-09		9.07E-06	9.19%
15	7	Surface	Cadmium	1.00E+00	1.21E-08	1.74E-07	1.29E-10		1.87E-07	0.19%
15	7	Surface	Chromium	7.87E+01			4.76E-07		4.76E-07	0.48%
15	7	Surface	Neptunium-237	2.23E-01	1.26E-09		8.91E-11	1.70E-07	1.72E-07	0.17%
15	7	Surface	Nickel	5.59E+02			1.04E-08		1.04E-08	0.01%
15	7	Surface	PCB, Total	2.57E+01	1.64E-06	8.24E-05	1.79E-06		8.59E-05	86.94%
15	7	Surface	Total PAH	1.59E-01	3.69E-08	1.73E-06	7.51E-10		1.77E-06	1.79%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
15	7	Surface	Uranium-234	6.49E+00	3.59E-08		1.67E-09	1.57E-09	3.91E-08	0.04%
15	7	Surface	Uranium-235	4.50E-01	2.57E-09		1.03E-10	2.34E-07	2.37E-07	0.24%
15	7	Surface	Uranium-238	8.05E+00	5.92E-08		1.70E-09	8.80E-07	9.41E-07	0.95%
15	7	Surface	**Totals**		**2.55E-06**	**9.26E-05**	**2.29E-06**	**1.29E-06**	9.88E-05	
15	7	Surface	**Percent**		**2.58%**	**93.80%**	**2.32%**	**1.30%**		
15	8	Surface	Arsenic	1.17E+01	5.57E-07	6.01E-06	3.62E-09		6.57E-06	22.95%
15	8	Surface	Chromium	7.74E+01			4.68E-07		4.68E-07	1.63%
15	8	Surface	Neptunium-237	3.65E-01	2.07E-09		1.46E-10	2.79E-07	2.81E-07	0.98%
15	8	Surface	Nickel	1.82E+02			3.40E-09		3.40E-09	0.01%
15	8	Surface	PCB, Total	4.90E+00	3.12E-07	1.57E-05	3.42E-07		1.64E-05	57.22%
15	8	Surface	Total PAH	3.59E-01	8.34E-08	3.90E-06	1.70E-09		3.99E-06	13.93%
15	8	Surface	Uranium-235	3.04E-01	1.73E-09		6.93E-11	1.58E-07	1.60E-07	0.56%
15	8	Surface	Uranium-238	6.64E+00	4.88E-08		1.40E-09	7.26E-07	7.76E-07	2.71%
15	8	Surface	**Totals**		**1.00E-06**	**2.57E-05**	**8.20E-07**	**1.16E-06**	2.86E-05	
15	8	Surface	**Percent**		**3.51%**	**89.57%**	**2.86%**	**4.06%**		
15	9	Surface	Arsenic	1.10E+01	5.28E-07	5.70E-06	3.43E-09		6.23E-06	53.60%
15	9	Surface	Chromium	9.56E+01			5.78E-07		5.78E-07	4.97%
15	9	Surface	Neptunium-237	1.28E-01	7.26E-10		5.12E-11	9.77E-08	9.85E-08	0.85%
15	9	Surface	Nickel	1.49E+02			2.78E-09		2.78E-09	0.02%
15	9	Surface	PCB, Total	3.30E-01	2.10E-08	1.06E-06	2.30E-08		1.10E-06	9.50%
15	9	Surface	Total PAH	2.38E-01	5.54E-08	2.59E-06	1.13E-09		2.65E-06	22.81%
15	9	Surface	Uranium-235	2.42E-01	1.38E-09		5.52E-11	1.26E-07	1.27E-07	1.10%
15	9	Surface	Uranium-238	7.12E+00	5.23E-08		1.50E-09	7.78E-07	8.32E-07	7.16%
15	9	Surface	**Totals**		**6.58E-07**	**9.35E-06**	**6.10E-07**	**1.00E-06**	1.16E-05	
15	9	Surface	**Percent**		**5.67%**	**80.47%**	**5.25%**	**8.62%**		
15	10	Surface	Chromium	3.55E+01			2.15E-07		2.15E-07	13.03%
15	10	Surface	Nickel	1.46E+02			2.73E-09		2.73E-09	0.17%
15	10	Surface	Total PAH	1.28E-01	2.99E-08	1.40E-06	6.07E-10		1.43E-06	86.80%
15	10	Surface	**Totals**		**2.99E-08**	**1.40E-06**	**2.18E-07**		1.65E-06	
15	10	Surface	**Percent**		**1.82%**	**84.95%**	**13.24%**			
16	1	Surface	Cesium-137	1.10E+00	1.67E-09		2.96E-13	2.68E-06	2.68E-06	81.13%
16	1	Surface	PCB, Total	9.60E-02	6.12E-09	3.08E-07	6.70E-09		3.21E-07	9.72%
16	1	Surface	Total PAH	2.72E-02	6.33E-09	2.96E-07	1.29E-10		3.02E-07	9.15%
16	1	Surface	**Totals**		**1.41E-08**	**6.04E-07**	**6.83E-09**	**2.68E-06**	3.30E-06	
16	1	Surface	**Percent**		**0.43%**	**18.29%**	**0.21%**	**81.08%**		
16	2	Surface	Beryllium	8.40E-01	1.15E-07	4.14E-05	1.45E-10		4.15E-05	99.70%
16	2	Surface	Chromium	2.04E+01			1.23E-07		1.23E-07	0.30%
16	2	Surface	Nickel	2.16E+01			4.04E-10		4.04E-10	0.00%
16	2	Surface	**Totals**		**1.15E-07**	**4.14E-05**	**1.24E-07**		4.16E-05	
16	2	Surface	**Percent**		**0.28%**	**99.43%**	**0.30%**			
16	3	Surface	PCB, Total	9.49E-01	6.05E-08	3.05E-06	6.62E-08		3.17E-06	100.00%
16	3	Surface	**Totals**		**6.05E-08**	**3.05E-06**	**6.62E-08**		3.17E-06	
16	3	Surface	**Percent**		**1.90%**	**96.01%**	**2.09%**			
16	4	Surface	Cesium-137	3.66E+01	5.54E-08		9.83E-12	8.91E-05	8.92E-05	53.99%
16	4	Surface	Cobalt-60	8.53E-03	1.20E-11		6.90E-15	1.01E-07	1.01E-07	0.06%
16	4	Surface	Neptunium-237	7.12E+00	4.04E-08		2.85E-09	5.43E-06	5.48E-06	3.32%
16	4	Surface	PCB, Total	3.20E-01	2.04E-08	1.03E-06	2.23E-08		1.07E-06	0.65%
16	4	Surface	Technetium-99	2.96E+02	7.93E-08		9.41E-11	2.31E-08	1.02E-07	0.06%
16	4	Surface	Thorium-230	5.29E+00	3.74E-08		3.40E-09	4.15E-09	4.50E-08	0.03%
16	4	Surface	Total PAH	2.93E+00	6.81E-07	3.19E-05	1.38E-08		3.26E-05	19.72%
16	4	Surface	Uranium-234	1.19E+02	6.58E-07		3.06E-08	2.88E-08	7.17E-07	0.43%
16	4	Surface	Uranium-235	8.23E+00	4.70E-08		1.88E-09	4.29E-06	4.33E-06	2.62%
16	4	Surface	Uranium-238	2.70E+02	1.98E-06		5.70E-08	2.95E-05	3.16E-05	19.11%
16	4	Surface	**Totals**		**3.60E-06**	**3.29E-05**	**1.32E-07**	**1.28E-04**	1.65E-04	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
16	4	Surface	**Percent**		**2.18%**	**19.92%**	**0.08%**	**77.82%**		
19	1	Surface	Beryllium	1.10E+00	1.51E-07	5.42E-05	1.90E-10		5.44E-05	48.24%
19	1	Surface	Cadmium	1.20E+00	1.45E-08	2.09E-07	1.55E-10		2.24E-07	0.20%
19	1	Surface	Total PAH	5.23E+00	1.22E-06	5.69E-05	2.47E-08		5.81E-05	51.56%
19	1	Surface	**Totals**		**1.38E-06**	**1.11E-04**	**2.51E-08**		1.13E-04	
19	1	Surface	**Percent**		**1.22%**	**98.75%**	**0.02%**			
26	1	Surface	Arsenic	1.29E+01	6.15E-07	6.65E-06	4.00E-09		7.27E-06	12.77%
26	1	Surface	Beryllium	6.69E-01	9.16E-08	3.30E-05	1.16E-10		3.31E-05	58.09%
26	1	Surface	Cadmium	1.99E+00	2.41E-08	3.47E-07	2.58E-10		3.72E-07	0.65%
26	1	Surface	Cesium-137	3.16E+00	4.80E-09		8.50E-13	7.71E-06	7.71E-06	13.55%
26	1	Surface	Chromium	1.90E+01			1.15E-07		1.15E-07	0.20%
26	1	Surface	Cobalt-60	1.93E-03	2.72E-12		1.56E-15	2.29E-08	2.30E-08	0.04%
26	1	Surface	Neptunium-237	2.61E-01	1.48E-09		1.04E-10	1.99E-07	2.01E-07	0.35%
26	1	Surface	Nickel	1.76E+01			3.29E-10		3.29E-10	0.00%
26	1	Surface	PCB, Total	9.33E-01	5.94E-08	3.00E-06	6.51E-08		3.12E-06	5.48%
26	1	Surface	Plutonium-239/240	4.04E+00	3.90E-08		3.03E-09	7.74E-10	4.28E-08	0.08%
26	1	Surface	Thorium-230	3.82E+00	2.70E-08		2.46E-09	3.00E-09	3.24E-08	0.06%
26	1	Surface	Total PAH	5.00E-02	1.16E-08	5.44E-07	2.36E-10		5.56E-07	0.98%
26	1	Surface	Uranium-234	4.67E+00	2.58E-08		1.20E-09	1.13E-09	2.81E-08	0.05%
26	1	Surface	Uranium-235	6.41E-01	3.66E-09		1.46E-10	3.34E-07	3.38E-07	0.59%
26	1	Surface	Uranium-238	3.47E+01	2.55E-07		7.32E-09	3.79E-06	4.05E-06	7.12%
26	1	Surface	**Totals**		**1.16E-06**	**4.35E-05**	**1.99E-07**	**1.21E-05**	5.69E-05	
26	1	Surface	**Percent**		**2.04%**	**76.43%**	**0.35%**	**21.18%**		
26	2	Surface	Arsenic	4.72E+01	2.26E-06	2.44E-05	1.47E-08		2.66E-05	4.97%
26	2	Surface	Beryllium	9.69E+00	1.33E-06	4.78E-04	1.67E-09		4.79E-04	89.37%
26	2	Surface	Cadmium	2.38E+00	2.88E-08	4.15E-07	3.08E-10		4.44E-07	0.08%
26	2	Surface	Cesium-137	5.92E+00	8.97E-09		1.59E-12	1.44E-05	1.44E-05	2.69%
26	2	Surface	Chromium	3.90E+01			2.36E-07		2.36E-07	0.04%
26	2	Surface	Cobalt	5.20E+01			3.37E-08		3.37E-08	0.01%
26	2	Surface	Neptunium-237	7.89E-01	4.47E-09		3.15E-10	6.02E-07	6.07E-07	0.11%
26	2	Surface	Nickel	1.13E+02			2.12E-09		2.12E-09	0.00%
26	2	Surface	PCB, Total	2.23E+00	1.42E-07	7.16E-06	1.56E-07		7.46E-06	1.39%
26	2	Surface	Thorium-230	1.51E+01	1.07E-07		9.74E-09	1.19E-08	1.29E-07	0.02%
26	2	Surface	Uranium-234	1.91E+01	1.05E-07		4.91E-09	4.61E-09	1.15E-07	0.02%
26	2	Surface	Uranium-235	1.71E+00	9.74E-09		3.89E-10	8.89E-07	8.99E-07	0.17%
26	2	Surface	Uranium-238	5.14E+01	3.78E-07		1.09E-08	5.62E-06	6.01E-06	1.12%
26	2	Surface	**Totals**		**4.37E-06**	**5.10E-04**	**4.70E-07**	**2.16E-05**	5.36E-04	
26	2	Surface	**Percent**		**0.81%**	**95.08%**	**0.09%**	**4.02%**		
26	3	Surface	Arsenic	5.09E+01	2.43E-06	2.63E-05	1.58E-08		2.87E-05	15.42%
26	3	Surface	Beryllium	2.54E+00	3.47E-07	1.25E-04	4.38E-10		1.25E-04	67.33%
26	3	Surface	Cadmium	2.34E+00	2.83E-08	4.08E-07	3.03E-10		4.37E-07	0.23%
26	3	Surface	Cesium-137	7.48E-01	1.13E-09		2.01E-13	1.82E-06	1.82E-06	0.98%
26	3	Surface	Chromium	3.25E+01			1.97E-07		1.97E-07	0.11%
26	3	Surface	Cobalt	1.21E+01			7.84E-09		7.84E-09	0.00%
26	3	Surface	Naphthalene	1.32E+00			1.08E-07		1.08E-07	0.06%
26	3	Surface	Neptunium-237	7.53E-01	4.27E-09		3.01E-10	5.75E-07	5.79E-07	0.31%
26	3	Surface	Nickel	2.97E+01			5.55E-10		5.55E-10	0.00%
26	3	Surface	PCB, Total	2.52E+00	1.60E-07	8.09E-06	1.76E-07		8.42E-06	4.53%
26	3	Surface	Technetium-99	6.48E+01	1.74E-08		2.06E-11	5.05E-09	2.24E-08	0.01%
26	3	Surface	Thorium-230	7.10E+00	5.02E-08		4.57E-09	5.57E-09	6.03E-08	0.03%
26	3	Surface	Total PAH	1.19E+00	2.76E-07	1.29E-05	5.62E-09		1.32E-05	7.10%
26	3	Surface	Uranium-234	4.63E+01	2.56E-07		1.19E-08	1.12E-08	2.79E-07	0.15%
26	3	Surface	Uranium-235	1.69E+00	9.65E-09		3.86E-10	8.80E-07	8.91E-07	0.48%
26	3	Surface	Uranium-238	5.19E+01	3.81E-07		1.09E-08	5.67E-06	6.06E-06	3.26%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
26	3	Surface	**Totals**		**3.96E-06**	**1.73E-04**	**5.39E-07**	**8.97E-06**	1.86E-04	
26	3	Surface	**Percent**		**2.13%**	**92.76%**	**0.29%**	**4.82%**		
26	4	Surface	Americium-241	1.27E+00	9.67E-09		8.08E-10	3.37E-08	4.42E-08	0.04%
26	4	Surface	Beryllium	6.91E-01	9.47E-08	3.41E-05	1.19E-10		3.42E-05	34.43%
26	4	Surface	Cadmium	1.99E+00	2.41E-08	3.47E-07	2.58E-10		3.71E-07	0.37%
26	4	Surface	Cesium-137	6.38E-01	9.67E-10		1.71E-13	1.55E-06	1.55E-06	1.57%
26	4	Surface	Chromium	8.57E+01			5.18E-07		5.18E-07	0.52%
26	4	Surface	Cobalt-60	1.21E-03	1.71E-12		9.78E-16	1.44E-08	1.44E-08	0.01%
26	4	Surface	Neptunium-237	1.36E+01	7.69E-08		5.42E-09	1.04E-05	1.04E-05	10.53%
26	4	Surface	Nickel	7.54E+01			1.41E-09		1.41E-09	0.00%
26	4	Surface	PCB, Total	5.54E-01	3.53E-08	1.78E-06	3.87E-08		1.85E-06	1.87%
26	4	Surface	Plutonium-239/240	5.00E+00	4.83E-08		3.76E-09	9.59E-10	5.31E-08	0.05%
26	4	Surface	Technetium-99	5.97E+02	1.60E-07		1.90E-10	4.66E-08	2.07E-07	0.21%
26	4	Surface	Thorium-230	3.26E+01	2.31E-07		2.10E-08	2.56E-08	2.77E-07	0.28%
26	4	Surface	Total PAH	2.83E-02	6.59E-09	3.08E-07	1.34E-10		3.15E-07	0.32%
26	4	Surface	Uranium-234	1.54E+02	8.54E-07		3.97E-08	3.73E-08	9.31E-07	0.94%
26	4	Surface	Uranium-235	1.08E+01	6.16E-08		2.46E-09	5.62E-06	5.69E-06	5.73%
26	4	Surface	Uranium-238	3.66E+02	2.69E-06		7.73E-08	4.00E-05	4.28E-05	43.11%
26	4	Surface	**Totals**		**4.29E-06**	**3.65E-05**	**7.09E-07**	**5.77E-05**	**9.92E-05**	
26	4	Surface	**Percent**		**4.33%**	**36.79%**	**0.72%**	**58.16%**		
47	1	Surface	Arsenic	4.52E+01	2.16E-06	2.33E-05	1.40E-08		2.55E-05	3.82%
47	1	Surface	Beryllium	7.00E-01	9.59E-08	3.45E-05	1.21E-10		3.46E-05	5.18%
47	1	Surface	Cadmium	4.25E+00	5.14E-08	7.41E-07	5.50E-10		7.93E-07	0.12%
47	1	Surface	Chromium	5.39E+01			3.26E-07		3.26E-07	0.05%
47	1	Surface	Cobalt	1.43E+01			9.26E-09		9.26E-09	0.00%
47	1	Surface	Naphthalene	1.90E+00			1.56E-07		1.56E-07	0.02%
47	1	Surface	Neptunium-237	1.15E-01	6.52E-10		4.60E-11	8.78E-08	8.85E-08	0.01%
47	1	Surface	Nickel	8.25E+01			1.54E-09		1.54E-09	0.00%
47	1	Surface	PCB, Total	9.60E-01	6.12E-08	3.08E-06	6.70E-08		3.21E-06	0.48%
47	1	Surface	Plutonium-239/240	4.11E+00	3.97E-08		3.09E-09	7.88E-10	4.36E-08	0.01%
47	1	Surface	Thorium-230	4.11E+01	2.91E-07		2.64E-08	3.23E-08	3.49E-07	0.05%
47	1	Surface	Total PAH	5.41E+01	1.26E-05	5.89E-04	2.56E-07		6.01E-04	90.07%
47	1	Surface	Uranium-234	6.85E+00	3.79E-08		1.76E-09	1.66E-09	4.13E-08	0.01%
47	1	Surface	Uranium-235	5.00E-01	2.85E-09		1.14E-10	2.60E-07	2.63E-07	0.04%
47	1	Surface	Uranium-238	7.93E+00	5.83E-08		1.67E-09	8.67E-07	9.27E-07	0.14%
47	1	Surface	**Totals**		**1.54E-05**	**6.50E-04**	**8.63E-07**	**1.25E-06**	6.68E-04	
47	1	Surface	**Percent**		**2.30%**	**97.38%**	**0.13%**	**0.19%**		
74	1	Surface	PCB, Total	2.97E+00	1.90E-07	9.55E-06	2.08E-07		9.95E-06	20.04%
74	1	Surface	Total PAH	3.16E+00	7.35E-07	3.44E-05	1.50E-08		3.52E-05	70.81%
74	1	Surface	Uranium-234	7.55E+00	4.18E-08		1.94E-09	1.82E-09	4.55E-08	0.09%
74	1	Surface	Uranium-238	3.85E+01	2.83E-07		8.13E-09	4.21E-06	4.50E-06	9.06%
74	1	Surface	**Totals**		**1.25E-06**	**4.40E-05**	**2.33E-07**	**4.21E-06**	4.97E-05	
74	1	Surface	**Percent**		**2.52%**	**88.54%**	**0.47%**	**8.48%**		
75	1	Surface	Cadmium	1.10E+00	1.33E-08	1.92E-07	1.42E-10		2.05E-07	5.30%
75	1	Surface	Chromium	7.17E+01			4.33E-07		4.33E-07	11.19%
75	1	Surface	Nickel	8.87E+01			1.66E-09		1.66E-09	0.04%
75	1	Surface	PCB, Total	2.30E-01	1.47E-08	7.39E-07	1.61E-08		7.69E-07	19.87%
75	1	Surface	Total PAH	2.21E-01	5.15E-08	2.41E-06	1.05E-09		2.46E-06	63.59%
75	1	Surface	**Totals**		**7.95E-08**	**3.34E-06**	**4.52E-07**		3.87E-06	
75	1	Surface	**Percent**		**2.05%**	**86.27%**	**11.68%**			
76	1	Surface	PCB, Total	2.60E-01	1.66E-08	8.35E-07	1.81E-08		8.70E-07	4.22%
76	1	Surface	Total PAH	1.76E+00	4.09E-07	1.91E-05	8.32E-09		1.96E-05	94.95%
76	1	Surface	Uranium-238	1.45E+00	1.07E-08		3.06E-10	1.59E-07	1.69E-07	0.82%
76	1	Surface	**Totals**		**4.36E-07**	**2.00E-05**	**2.68E-08**	**1.59E-07**	2.06E-05	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
76	1	Surface	**Percent**		**2.12%**	**96.98%**	**0.13%**	**0.77%**		
78	1	Surface	Cadmium	2.36E+00	2.86E-08	4.11E-07	3.06E-10		4.40E-07	0.09%
78	1	Surface	Chromium	3.75E+01			2.27E-07		2.27E-07	0.05%
78	1	Surface	Cobalt-60	5.91E-03	8.34E-12		4.78E-15	7.03E-08	7.03E-08	0.01%
78	1	Surface	Naphthalene	1.60E+01			1.31E-06		1.31E-06	0.27%
78	1	Surface	Nickel	2.15E+01			4.02E-10		4.02E-10	0.00%
78	1	Surface	PCB, Total	1.20E+01	7.65E-07	3.85E-05	8.38E-07		4.01E-05	8.40%
78	1	Surface	Total PAH	3.91E+01	9.10E-06	4.26E-04	1.85E-07		4.35E-04	91.02%
78	1	Surface	Uranium-235	2.64E-01	1.51E-09		6.02E-11	1.37E-07	1.39E-07	0.03%
78	1	Surface	Uranium-238	5.29E+00	3.89E-08		1.12E-09	5.78E-07	6.18E-07	0.13%
78	1	Surface	**Totals**		**9.93E-06**	**4.65E-04**	**2.57E-06**	**7.86E-07**	4.78E-04	
78	1	Surface	**Percent**		**2.08%**	**97.22%**	**0.54%**	**0.16%**		
80	1	Surface	Americium-241	6.40E+00	4.86E-08		4.06E-09	1.69E-07	2.22E-07	0.07%
80	1	Surface	Beryllium	7.80E-01	1.07E-07	3.84E-05	1.35E-10		3.86E-05	11.60%
80	1	Surface	Chromium	1.65E+02			9.97E-07		9.97E-07	0.30%
80	1	Surface	Neptunium-237	5.05E-01	2.86E-09		2.02E-10	3.85E-07	3.89E-07	0.12%
80	1	Surface	PCB, Total	1.46E+01	9.32E-07	4.69E-05	1.02E-06		4.89E-05	14.71%
80	1	Surface	Thorium-230	4.40E+00	3.11E-08		2.83E-09	3.46E-09	3.74E-08	0.01%
80	1	Surface	Total PAH	1.42E-01	3.29E-08	1.54E-06	6.70E-10		1.58E-06	0.47%
80	1	Surface	Uranium-234	2.29E+02	1.27E-06		5.89E-08	5.53E-08	1.38E-06	0.42%
80	1	Surface	Uranium-235	3.00E+01	1.71E-07		6.84E-09	1.56E-05	1.58E-05	4.75%
80	1	Surface	Uranium-238	1.92E+03	1.41E-05		4.06E-07	2.10E-04	2.25E-04	67.55%
80	1	Surface	**Totals**		**1.67E-05**	**8.69E-05**	**2.50E-06**	**2.26E-04**	3.32E-04	
80	1	Surface	**Percent**		**5.03%**	**26.16%**	**0.75%**	**68.06%**		
81	1	Surface	Arsenic	1.03E+01	4.90E-07	5.29E-06	3.18E-09		5.78E-06	0.99%
81	1	Surface	Beryllium	7.57E-01	1.04E-07	3.73E-05	1.31E-10		3.74E-05	6.40%
81	1	Surface	Chromium	8.62E+01			5.21E-07		5.21E-07	0.09%
81	1	Surface	Nickel	7.29E+01			1.36E-09		1.36E-09	0.00%
81	1	Surface	PCB, Total	1.60E+02	1.02E-05	5.13E-04	1.12E-05		5.34E-04	91.42%
81	1	Surface	Total PAH	5.53E-01	1.29E-07	6.02E-06	2.62E-09		6.15E-06	1.05%
81	1	Surface	Uranium-238	2.29E+00	1.68E-08		4.82E-10	2.50E-07	2.67E-07	0.05%
81	1	Surface	**Totals**		**1.09E-05**	**5.62E-04**	**1.17E-05**	**2.50E-07**	5.85E-04	
81	1	Surface	**Percent**		**1.87%**	**96.09%**	**2.00%**	**0.04%**		
99	1	Surface	Chromium	5.51E+01			3.33E-07		3.33E-07	56.80%
99	1	Surface	Cobalt-60	1.19E-02	1.68E-11		9.62E-15	1.41E-07	1.42E-07	24.14%
99	1	Surface	Nickel	7.02E+01			1.31E-09		1.31E-09	0.22%
99	1	Surface	Uranium-238	9.45E-01	6.95E-09		2.00E-10	1.03E-07	1.10E-07	18.84%
99	1	Surface	**Totals**		**6.96E-09**		**3.34E-07**	**2.45E-07**	5.86E-07	
99	1	Surface	**Percent**		**1.19%**		**57.05%**	**41.76%**		
138	1	Surface	Arsenic	1.06E+01	5.07E-07	5.48E-06	3.30E-09		5.99E-06	59.41%
138	1	Surface	Cadmium	5.42E+00	6.56E-08	9.45E-07	7.02E-10		1.01E-06	10.03%
138	1	Surface	Chromium	5.39E+01			3.25E-07		3.25E-07	3.23%
138	1	Surface	Nickel	7.04E+01			1.32E-09		1.32E-09	0.01%
138	1	Surface	PCB, Total	5.00E-01	3.19E-08	1.61E-06	3.49E-08		1.67E-06	16.58%
138	1	Surface	Total PAH	9.74E-02	2.27E-08	1.06E-06	4.61E-10		1.08E-06	10.74%
138	1	Surface	**Totals**		**6.28E-07**	**9.09E-06**	**3.66E-07**		1.01E-05	
138	1	Surface	**Percent**		**6.22%**	**90.15%**	**3.63%**			
138	2	Surface	Nickel	7.99E+01			1.49E-09		1.49E-09	0.20%
138	2	Surface	PCB, Total	9.20E-02	5.86E-09	2.95E-07	6.42E-09		3.08E-07	41.79%
138	2	Surface	Total PAH	3.84E-02	8.93E-09	4.18E-07	1.82E-10		4.27E-07	58.00%
138	2	Surface	**Totals**		**1.48E-08**	**7.13E-07**	**8.10E-09**		7.36E-07	
138	2	Surface	**Percent**		**2.01%**	**96.89%**	**1.10%**			
153	1	Surface	PCB, Total	5.09E-01	3.24E-08	1.63E-06	3.55E-08		1.70E-06	63.79%
153	1	Surface	Total PAH	8.69E-02	2.02E-08	9.46E-07	4.11E-10		9.67E-07	36.21%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
153	1	Surface	**Totals**		**5.26E-08**	**2.58E-06**	**3.59E-08**		2.67E-06	
153	1	Surface	**Percent**		**1.97%**	**96.68%**	**1.35%**			
154	1	Surface	Arsenic	1.52E+01	7.25E-07	7.83E-06	4.71E-09		8.56E-06	27.21%
154	1	Surface	Chromium	4.28E+01			2.58E-07		2.58E-07	0.82%
154	1	Surface	Nickel	9.89E+01			1.85E-09		1.85E-09	0.01%
154	1	Surface	PCB, Total	3.20E+00	2.04E-07	1.03E-05	2.23E-07		1.07E-05	34.03%
154	1	Surface	Total PAH	1.04E+00	2.42E-07	1.13E-05	4.92E-09		1.16E-05	36.79%
154	1	Surface	Uranium-238	3.06E+00	2.25E-08		6.46E-10	3.35E-07	3.58E-07	1.14%
154	1	Surface	**Totals**		**1.19E-06**	**2.94E-05**	**4.94E-07**	**3.35E-07**	3.15E-05	
154	1	Surface	**Percent**		**3.79%**	**93.57%**	**1.57%**	**1.06%**		
154	2	Surface	PCB, Total	4.00E-01	2.55E-08	1.28E-06	2.79E-08		1.34E-06	100.00%
154	2	Surface	**Totals**		**2.55E-08**	**1.28E-06**	**2.79E-08**		1.34E-06	
154	2	Surface	**Percent**		**1.90%**	**96.01%**	**2.09%**			
155	1	Surface	Chromium	3.47E+01			2.10E-07		2.10E-07	0.68%
155	1	Surface	Neptunium-237	1.03E-01	5.84E-10		4.12E-11	7.86E-08	7.92E-08	0.26%
155	1	Surface	Nickel	7.65E+01			1.43E-09		1.43E-09	0.00%
155	1	Surface	PCB, Total	9.20E+00	5.86E-07	2.95E-05	6.42E-07		3.08E-05	99.06%
155	1	Surface	**Totals**		**5.87E-07**	**2.95E-05**	**8.53E-07**	**7.86E-08**	3.11E-05	
155	1	Surface	**Percent**		**1.89%**	**95.11%**	**2.75%**	**0.25%**		
156	1	Surface	Chromium	4.90E+01			2.96E-07		2.96E-07	11.97%
156	1	Surface	Nickel	6.16E+01			1.15E-09		1.15E-09	0.05%
156	1	Surface	PCB, Total	3.00E-01	1.91E-08	9.63E-07	2.09E-08		1.00E-06	40.53%
156	1	Surface	Total PAH	8.26E-02	1.92E-08	8.99E-07	3.91E-10		9.19E-07	37.11%
156	1	Surface	Uranium-238	2.19E+00	1.61E-08		4.62E-10	2.39E-07	2.56E-07	10.34%
156	1	Surface	**Totals**		**5.44E-08**	**1.86E-06**	**3.19E-07**	**2.39E-07**	2.48E-06	
156	1	Surface	**Percent**		**2.20%**	**75.24%**	**12.90%**	**9.67%**		
158	1	Surface	Arsenic	1.01E+01	4.84E-07	5.22E-06	3.14E-09		5.71E-06	53.26%
158	1	Surface	Chromium	6.07E+01			3.67E-07		3.67E-07	3.42%
158	1	Surface	Cobalt	1.62E+01			1.05E-08		1.05E-08	0.10%
158	1	Surface	Nickel	7.28E+01			1.36E-09		1.36E-09	0.01%
158	1	Surface	Total PAH	3.69E-01	8.58E-08	4.02E-06	1.75E-09		4.10E-06	38.28%
158	1	Surface	Uranium-235	1.63E-01	9.30E-10		3.72E-11	8.49E-08	8.58E-08	0.80%
158	1	Surface	Uranium-238	3.79E+00	2.79E-08		8.00E-10	4.14E-07	4.43E-07	4.13%
158	1	Surface	**Totals**		**5.98E-07**	**9.24E-06**	**3.85E-07**	**4.99E-07**	1.07E-05	
158	1	Surface	**Percent**		**5.58%**	**86.18%**	**3.59%**	**4.66%**		
160	1	Surface	Total PAH	5.29E-02	1.23E-08	5.76E-07	2.50E-10		5.88E-07	100.00%
160	1	Surface	**Totals**		**1.23E-08**	**5.76E-07**	**2.50E-10**		5.88E-07	
160	1	Surface	**Percent**		**2.09%**	**97.87%**	**0.04%**			
163	1	Surface	Chromium	4.94E+01			2.99E-07		2.99E-07	14.15%
163	1	Surface	Total PAH	1.63E-01	3.79E-08	1.77E-06	7.71E-10		1.81E-06	85.85%
163	1	Surface	**Totals**		**3.79E-08**	**1.77E-06**	**3.00E-07**		2.11E-06	
163	1	Surface	**Percent**		**1.80%**	**84.02%**	**14.19%**			
165	1	Surface	Arsenic	6.35E+01	3.03E-06	3.28E-05	1.97E-08		3.58E-05	26.32%
165	1	Surface	Beryllium	6.82E-01	9.34E-08	3.36E-05	1.18E-10		3.37E-05	24.77%
165	1	Surface	Cesium-137	3.47E+00	5.26E-09		9.33E-13	8.45E-06	8.46E-06	6.22%
165	1	Surface	Chromium	3.74E+01			2.26E-07		2.26E-07	0.17%
165	1	Surface	Naphthalene	1.61E+00			1.32E-07		1.32E-07	0.10%
165	1	Surface	Neptunium-237	4.26E-01	2.42E-09		1.70E-10	3.25E-07	3.28E-07	0.24%
165	1	Surface	Nickel	3.47E+01			6.49E-10		6.49E-10	0.00%
165	1	Surface	PCB, Total	8.27E+00	5.27E-07	2.66E-05	5.77E-07		2.77E-05	20.32%
165	1	Surface	Plutonium-239/240	2.81E+00	2.71E-08		2.11E-09	5.38E-10	2.97E-08	0.02%
165	1	Surface	Thorium-230	6.02E+00	4.25E-08		3.87E-09	4.73E-09	5.11E-08	0.04%
165	1	Surface	Total PAH	1.87E+00	4.34E-07	2.03E-05	8.84E-09		2.08E-05	15.27%
165	1	Surface	Uranium-234	5.76E+01	3.18E-07		1.48E-08	1.39E-08	3.47E-07	0.25%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
165	1	Surface	Uranium-235	2.05E+00	1.17E-08		4.66E-10	1.06E-06	1.08E-06	0.79%
165	1	Surface	Uranium-238	6.41E+01	4.71E-07		1.35E-08	7.01E-06	7.49E-06	5.50%
165	1	Surface	**Totals**		**4.97E-06**	**1.13E-04**	**1.00E-06**	**1.69E-05**	1.36E-04	
165	1	Surface	**Percent**		**3.65%**	**83.22%**	**0.73%**	**12.39%**		
169	1	Surface	Arsenic	2.03E+01	9.70E-07	1.05E-05	6.30E-09		1.15E-05	8.30%
169	1	Surface	Beryllium	8.00E-01	1.10E-07	3.94E-05	1.38E-10		3.95E-05	28.66%
169	1	Surface	Chromium	2.15E+02			1.30E-06		1.30E-06	0.94%
169	1	Surface	Nickel	5.49E+02			1.03E-08		1.03E-08	0.01%
169	1	Surface	PCB, Total	1.00E+01	6.37E-07	3.21E-05	6.98E-07		3.34E-05	24.24%
169	1	Surface	Total PAH	4.59E+00	1.07E-06	4.99E-05	2.17E-08		5.10E-05	36.96%
169	1	Surface	Uranium-234	6.55E+00	3.62E-08		1.69E-09	1.58E-09	3.95E-08	0.03%
169	1	Surface	Uranium-235	4.60E-01	2.62E-09		1.05E-10	2.40E-07	2.42E-07	0.18%
169	1	Surface	Uranium-238	8.12E+00	5.97E-08		1.71E-09	8.88E-07	9.49E-07	0.69%
169	1	Surface	**Totals**		**2.88E-06**	**1.32E-04**	**2.04E-06**	**1.13E-06**	1.38E-04	
169	1	Surface	**Percent**		**2.09%**	**95.62%**	**1.48%**	**0.82%**		
170	1	Surface	Neptunium-237	1.15E-01	6.52E-10		4.60E-11	8.78E-08	8.85E-08	33.10%
170	1	Surface	Uranium-238	1.53E+00	1.12E-08		3.23E-10	1.67E-07	1.79E-07	66.90%
170	1	Surface	**Totals**		**1.19E-08**		**3.69E-10**	**2.55E-07**	2.67E-07	
170	1	Surface	**Percent**		**4.45%**		**0.14%**	**95.41%**		
176	1	Surface	Arsenic	4.86E+01	2.32E-06	2.51E-05	1.51E-08		2.74E-05	99.06%
176	1	Surface	Chromium	4.27E+01			2.58E-07		2.58E-07	0.93%
176	1	Surface	Nickel	1.07E+02			2.00E-09		2.00E-09	0.01%
176	1	Surface	**Totals**		**2.32E-06**	**2.51E-05**	**2.75E-07**		2.77E-05	
176	1	Surface	**Percent**		**8.39%**	**90.61%**	**1.00%**			
180	1	Surface	Arsenic	7.48E+01	3.57E-06	3.86E-05	2.32E-08		4.22E-05	99.21%
180	1	Surface	Chromium	5.54E+01			3.35E-07		3.35E-07	0.79%
180	1	Surface	Nickel	8.77E+01			1.64E-09		1.64E-09	0.00%
180	1	Surface	**Totals**		**3.57E-06**	**3.86E-05**	**3.60E-07**		4.25E-05	
180	1	Surface	**Percent**		**8.40%**	**90.75%**	**0.85%**			
180	2	Surface	Arsenic	1.27E+01	6.04E-07	6.53E-06	3.93E-09		7.14E-06	84.66%
180	2	Surface	Chromium	4.46E+01			2.70E-07		2.70E-07	3.20%
180	2	Surface	Nickel	8.42E+01			1.57E-09		1.57E-09	0.02%
180	2	Surface	Total PAH	9.19E-02	2.14E-08	1.00E-06	4.34E-10		1.02E-06	12.12%
180	2	Surface	**Totals**		**6.26E-07**	**7.53E-06**	**2.76E-07**		8.43E-06	
180	2	Surface	**Percent**		**7.42%**	**89.31%**	**3.27%**			
180	3	Surface	Arsenic	1.34E+01	6.38E-07	6.89E-06	4.14E-09		7.53E-06	96.36%
180	3	Surface	Chromium	4.69E+01			2.84E-07		2.84E-07	3.63%
180	3	Surface	Nickel	6.77E+01			1.27E-09		1.27E-09	0.02%
180	3	Surface	**Totals**		**6.38E-07**	**6.89E-06**	**2.89E-07**		7.82E-06	
180	3	Surface	**Percent**		**8.16%**	**88.14%**	**3.70%**			
180	4	Surface	Arsenic	1.15E+01	5.51E-07	5.95E-06	3.58E-09		6.51E-06	7.55%
180	4	Surface	Beryllium	1.60E+00	2.19E-07	7.89E-05	2.76E-10		7.91E-05	91.75%
180	4	Surface	Chromium	6.00E+01			3.63E-07		3.63E-07	0.42%
180	4	Surface	Nickel	6.46E+01			1.21E-09		1.21E-09	0.00%
180	4	Surface	Total PAH	2.15E-02	5.00E-09	2.34E-07	1.02E-10		2.39E-07	0.28%
180	4	Surface	**Totals**		**7.75E-07**	**8.51E-05**	**3.68E-07**		8.62E-05	
180	4	Surface	**Percent**		**0.90%**	**98.67%**	**0.43%**			
181	1	Surface	Chromium	2.29E+01			1.38E-07		1.38E-07	26.58%
181	1	Surface	Total PAH	3.43E-02	7.98E-09	3.73E-07	1.62E-10		3.81E-07	73.42%
181	1	Surface	**Totals**		**7.98E-09**	**3.73E-07**	**1.38E-07**		5.20E-07	
181	1	Surface	**Percent**		**1.54%**	**71.86%**	**26.61%**			
194	1	Surface	Chromium	3.87E+01			2.34E-07		2.34E-07	99.54%
194	1	Surface	Nickel	5.84E+01			1.09E-09		1.09E-09	0.46%
194	1	Surface	**Totals**				**2.35E-07**		2.35E-07	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	1	Surface	**Percent**				**100.00%**			
194	2	Surface	Chromium	5.96E+01			3.60E-07		3.60E-07	68.45%
194	2	Surface	Uranium-238	1.42E+00	1.04E-08		3.00E-10	1.55E-07	1.66E-07	31.55%
194	2	Surface	**Totals**		**1.04E-08**		**3.60E-07**	**1.55E-07**	5.26E-07	
194	2	Surface	**Percent**		**1.98%**		**68.51%**	**29.51%**		
194	3	Surface	Arsenic	1.46E+01	7.00E-07	7.56E-06	4.54E-09		8.26E-06	90.93%
194	3	Surface	Chromium	3.90E+01			2.36E-07		2.36E-07	2.59%
194	3	Surface	Nickel	6.40E+01			1.20E-09		1.20E-09	0.01%
194	3	Surface	Total PAH	3.93E-02	9.14E-09	4.28E-07	1.86E-10		4.37E-07	4.81%
194	3	Surface	Uranium-238	1.28E+00	9.44E-09		2.71E-10	1.40E-07	1.50E-07	1.65%
194	3	Surface	**Totals**		**7.18E-07**	**7.98E-06**	**2.42E-07**	**1.40E-07**	9.08E-06	
194	3	Surface	**Percent**		**7.91%**	**87.89%**	**2.66%**	**1.55%**		
194	4	Surface	Chromium	4.84E+01			2.93E-07		2.93E-07	22.38%
194	4	Surface	Nickel	6.91E+01			1.29E-09		1.29E-09	0.10%
194	4	Surface	Total PAH	7.30E-02	1.70E-08	7.94E-07	3.45E-10		8.11E-07	62.06%
194	4	Surface	Uranium-238	1.73E+00	1.27E-08		3.65E-10	1.89E-07	2.02E-07	15.47%
194	4	Surface	**Totals**		**2.97E-08**	**7.94E-07**	**2.95E-07**	**1.89E-07**	1.31E-06	
194	4	Surface	**Percent**		**2.27%**	**60.74%**	**22.53%**	**14.47%**		
194	5	Surface	Chromium	4.58E+01			2.77E-07		2.77E-07	39.37%
194	5	Surface	Nickel	7.54E+01			1.41E-09		1.41E-09	0.20%
194	5	Surface	Total PAH	2.37E-02	5.51E-09	2.58E-07	1.12E-10		2.64E-07	37.49%
194	5	Surface	Uranium-238	1.38E+00	1.01E-08		2.91E-10	1.51E-07	1.61E-07	22.94%
194	5	Surface	**Totals**		**1.57E-08**	**2.58E-07**	**2.79E-07**	**1.51E-07**	7.03E-07	
194	5	Surface	**Percent**		**2.23%**	**36.69%**	**39.62%**	**21.46%**		
194	6	Surface	Chromium	3.70E+01			2.24E-07		2.24E-07	58.94%
194	6	Surface	Nickel	8.06E+01			1.51E-09		1.51E-09	0.40%
194	6	Surface	Uranium-238	1.32E+00	9.70E-09		2.79E-10	1.44E-07	1.54E-07	40.66%
194	6	Surface	**Totals**		**9.70E-09**		**2.25E-07**	**1.44E-07**	3.79E-07	
194	6	Surface	**Percent**		**2.56%**		**59.41%**	**38.03%**		
194	7	Surface	Chromium	5.32E+01			3.21E-07		3.21E-07	99.55%
194	7	Surface	Nickel	7.71E+01			1.44E-09		1.44E-09	0.45%
194	7	Surface	**Totals**				**3.23E-07**		3.23E-07	
194	7	Surface	**Percent**				**100.00%**			
194	8	Surface	Chromium	5.36E+01			3.24E-07		3.24E-07	5.51%
194	8	Surface	Total PAH	4.85E-01	1.13E-07	5.28E-06	2.29E-09		5.39E-06	91.73%
194	8	Surface	Uranium-238	1.39E+00	1.02E-08		2.93E-10	1.52E-07	1.62E-07	2.76%
194	8	Surface	**Totals**		**1.23E-07**	**5.28E-06**	**3.26E-07**	**1.52E-07**	5.88E-06	
194	8	Surface	**Percent**		**2.09%**	**89.77%**	**5.55%**	**2.58%**		
194	9	Surface	Arsenic	1.14E+01	5.46E-07	5.89E-06	3.54E-09		6.44E-06	95.38%
194	9	Surface	Chromium	5.17E+01			3.12E-07		3.12E-07	4.62%
194	9	Surface	**Totals**		**5.46E-07**	**5.89E-06**	**3.16E-07**		6.76E-06	
194	9	Surface	**Percent**		**8.08%**	**87.25%**	**4.67%**			
194	10	Surface	Arsenic	1.22E+01	5.81E-07	6.28E-06	3.77E-09		6.86E-06	59.50%
194	10	Surface	Cesium-137	5.81E-01	8.81E-10		1.56E-13	1.42E-06	1.42E-06	12.28%
194	10	Surface	Chromium	3.63E+01			2.19E-07		2.19E-07	1.90%
194	10	Surface	Nickel	7.60E+01			1.42E-09		1.42E-09	0.01%
194	10	Surface	Total PAH	2.57E-01	5.98E-08	2.80E-06	1.22E-09		2.86E-06	24.80%
194	10	Surface	Uranium-238	1.49E+00	1.10E-08		3.15E-10	1.63E-07	1.74E-07	1.51%
194	10	Surface	**Totals**		**6.53E-07**	**9.07E-06**	**2.26E-07**	**1.58E-06**	1.15E-05	
194	10	Surface	**Percent**		**5.66%**	**78.69%**	**1.96%**	**13.68%**		
194	11	Surface	Chromium	3.27E+01			1.97E-07		1.97E-07	14.47%
194	11	Surface	Nickel	1.01E+02			1.88E-09		1.88E-09	0.14%
194	11	Surface	PCB, Total	8.40E-02	5.35E-09	2.70E-07	5.86E-09		2.81E-07	20.59%
194	11	Surface	Total PAH	7.95E-02	1.85E-08	8.66E-07	3.76E-10		8.84E-07	64.81%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	11	Surface	**Totals**		**2.38E-08**	**1.14E-06**	**2.06E-07**		1.36E-06	
194	11	Surface	**Percent**		**1.75%**	**83.19%**	**15.06%**			
194	12	Surface	Chromium	6.34E+01			3.83E-07		3.83E-07	3.72%
194	12	Surface	Nickel	7.86E+01			1.47E-09		1.47E-09	0.01%
194	12	Surface	Total PAH	8.91E-01	2.07E-07	9.70E-06	4.22E-09		9.91E-06	96.27%
194	12	Surface	**Totals**		**2.07E-07**	**9.70E-06**	**3.89E-07**		1.03E-05	
194	12	Surface	**Percent**		**2.01%**	**94.21%**	**3.77%**			
194	13	Surface	Chromium	4.77E+01			2.88E-07		2.88E-07	22.06%
194	13	Surface	Nickel	6.03E+01			1.13E-09		1.13E-09	0.09%
194	13	Surface	Total PAH	9.13E-02	2.12E-08	9.94E-07	4.32E-10		1.02E-06	77.85%
194	13	Surface	**Totals**		**2.12E-08**	**9.94E-07**	**2.89E-07**		1.30E-06	
194	13	Surface	**Percent**		**1.63%**	**76.19%**	**22.18%**			
194	14	Surface	Chromium	5.21E+01			3.15E-07		3.15E-07	100.00%
194	14	Surface	**Totals**				**3.15E-07**		3.15E-07	
194	14	Surface	**Percent**				**100.00%**			
194	15	Surface	Chromium	5.33E+01			3.22E-07		3.22E-07	100.00%
194	15	Surface	**Totals**				**3.22E-07**		3.22E-07	
194	15	Surface	**Percent**				**100.00%**			
194	16	Surface	Arsenic	1.15E+01	5.50E-07	5.95E-06	3.58E-09		6.50E-06	13.04%
194	16	Surface	Beryllium	8.70E-01	1.19E-07	4.29E-05	1.50E-10		4.30E-05	86.31%
194	16	Surface	Chromium	5.32E+01			3.22E-07		3.22E-07	0.65%
194	16	Surface	Nickel	7.20E+01			1.35E-09		1.35E-09	0.00%
194	16	Surface	**Totals**		**6.70E-07**	**4.88E-05**	**3.27E-07**		4.98E-05	
194	16	Surface	**Percent**		**1.34%**	**98.00%**	**0.66%**			
194	17	Surface	Arsenic	1.16E+01	5.52E-07	5.96E-06	3.58E-09		6.52E-06	74.33%
194	17	Surface	Cadmium	1.10E+00	1.33E-08	1.92E-07	1.42E-10		2.05E-07	2.34%
194	17	Surface	Chromium	4.65E+01			2.81E-07		2.81E-07	3.20%
194	17	Surface	Total PAH	1.59E-01	3.69E-08	1.73E-06	7.50E-10		1.76E-06	20.13%
194	17	Surface	**Totals**		**6.02E-07**	**7.88E-06**	**2.85E-07**		8.77E-06	
194	17	Surface	**Percent**		**6.87%**	**89.88%**	**3.25%**			
194	18	Surface	Arsenic	1.06E+01	5.05E-07	5.46E-06	3.28E-09		5.96E-06	13.88%
194	18	Surface	Beryllium	7.40E-01	1.01E-07	3.65E-05	1.28E-10		3.66E-05	85.15%
194	18	Surface	Chromium	6.85E+01			4.14E-07		4.14E-07	0.96%
194	18	Surface	Nickel	5.78E+01			1.08E-09		1.08E-09	0.00%
194	18	Surface	**Totals**		**6.06E-07**	**4.19E-05**	**4.18E-07**		4.30E-05	
194	18	Surface	**Percent**		**1.41%**	**97.61%**	**0.97%**			
194	19	Surface	Arsenic	1.07E+01	5.11E-07	5.52E-06	3.32E-09		6.03E-06	95.36%
194	19	Surface	Chromium	4.84E+01			2.92E-07		2.92E-07	4.62%
194	19	Surface	Nickel	5.84E+01			1.09E-09		1.09E-09	0.02%
194	19	Surface	**Totals**		**5.11E-07**	**5.52E-06**	**2.97E-07**		6.32E-06	
194	19	Surface	**Percent**		**8.08%**	**87.23%**	**4.69%**			
194	20	Surface	Arsenic	1.18E+01	5.66E-07	6.11E-06	3.67E-09		6.68E-06	10.82%
194	20	Surface	Beryllium	1.10E+00	1.51E-07	5.42E-05	1.90E-10		5.44E-05	88.08%
194	20	Surface	Chromium	5.24E+01			3.16E-07		3.16E-07	0.51%
194	20	Surface	Cobalt	2.11E+01			1.37E-08		1.37E-08	0.02%
194	20	Surface	Nickel	6.57E+01			1.23E-09		1.23E-09	0.00%
194	20	Surface	Total PAH	3.10E-02	7.21E-09	3.37E-07	1.47E-10		3.45E-07	0.56%
194	20	Surface	**Totals**		**7.24E-07**	**6.07E-05**	**3.35E-07**		6.17E-05	
194	20	Surface	**Percent**		**1.17%**	**98.28%**	**0.54%**			
194	21	Surface	Chromium	5.51E+01			3.33E-07		3.33E-07	99.61%
194	21	Surface	Nickel	7.01E+01			1.31E-09		1.31E-09	0.39%
194	21	Surface	**Totals**				**3.34E-07**		3.34E-07	
194	21	Surface	**Percent**				**100.00%**			
194	22	Surface	Chromium	4.90E+01			2.96E-07		2.96E-07	0.80%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
194	22	Surface	PCB, Total	1.09E+01	6.96E-07	3.51E-05	7.62E-07		3.65E-05	99.20%
194	22	Surface	**Totals**		**6.96E-07**	**3.51E-05**	**1.06E-06**		3.68E-05	
194	22	Surface	**Percent**		**1.89%**	**95.24%**	**2.87%**			
194	23	Surface	Arsenic	1.16E+01	5.52E-07	5.96E-06	3.58E-09		6.52E-06	94.21%
194	23	Surface	Chromium	6.60E+01			3.99E-07		3.99E-07	5.76%
194	23	Surface	Nickel	8.77E+01			1.64E-09		1.64E-09	0.02%
194	23	Surface	**Totals**		**5.52E-07**	**5.96E-06**	**4.04E-07**		6.92E-06	
194	23	Surface	**Percent**		**7.98%**	**86.18%**	**5.84%**			
194	24	Surface	Chromium	5.02E+01			3.03E-07		3.03E-07	54.35%
194	24	Surface	Nickel	7.08E+01			1.32E-09		1.32E-09	0.24%
194	24	Surface	Total PAH	2.28E-02	5.30E-09	2.48E-07	1.08E-10		2.54E-07	45.42%
194	24	Surface	**Totals**		**5.30E-09**	**2.48E-07**	**3.05E-07**		5.58E-07	
194	24	Surface	**Percent**		**0.95%**	**44.45%**	**54.60%**			
194	25	Surface	Chromium	6.13E+01			3.70E-07		3.70E-07	61.65%
194	25	Surface	Nickel	6.33E+01			1.18E-09		1.18E-09	0.20%
194	25	Surface	Total PAH	2.06E-02	4.79E-09	2.24E-07	9.74E-11		2.29E-07	38.16%
194	25	Surface	**Totals**		**4.79E-09**	**2.24E-07**	**3.71E-07**		6.00E-07	
194	25	Surface	**Percent**		**0.80%**	**37.34%**	**61.86%**			
194	26	Surface	Beryllium	7.00E-01	9.59E-08	3.45E-05	1.21E-10		3.46E-05	99.27%
194	26	Surface	Chromium	4.18E+01			2.53E-07		2.53E-07	0.73%
194	26	Surface	**Totals**		**9.59E-08**	**3.45E-05**	**2.53E-07**		3.49E-05	
194	26	Surface	**Percent**		**0.28%**	**99.00%**	**0.73%**			
194	27	Surface	Chromium	5.22E+01			3.15E-07		3.15E-07	99.61%
194	27	Surface	Nickel	6.55E+01			1.23E-09		1.23E-09	0.39%
194	27	Surface	**Totals**				**3.16E-07**		3.16E-07	
194	27	Surface	**Percent**				**100.00%**			
194	28	Surface	Arsenic	1.20E+01	5.75E-07	6.21E-06	3.73E-09		6.79E-06	16.06%
194	28	Surface	Beryllium	7.10E-01	9.73E-08	3.50E-05	1.23E-10		3.51E-05	83.06%
194	28	Surface	Chromium	6.07E+01			3.67E-07		3.67E-07	0.87%
194	28	Surface	Nickel	6.95E+01			1.30E-09		1.30E-09	0.00%
194	28	Surface	**Totals**		**6.72E-07**	**4.12E-05**	**3.72E-07**		4.23E-05	
194	28	Surface	**Percent**		**1.59%**	**97.53%**	**0.88%**			
194	29	Surface	Chromium	5.06E+01			3.06E-07		3.06E-07	99.60%
194	29	Surface	Nickel	6.51E+01			1.22E-09		1.22E-09	0.40%
194	29	Surface	**Totals**				**3.07E-07**		3.07E-07	
194	29	Surface	**Percent**				**100.00%**			
194	30	Surface	Chromium	5.66E+01			3.42E-07		3.42E-07	99.62%
194	30	Surface	Nickel	6.99E+01			1.31E-09		1.31E-09	0.38%
194	30	Surface	**Totals**				**3.43E-07**		3.43E-07	
194	30	Surface	**Percent**				**100.00%**			
194	31	Surface	Cesium-137	5.70E-01	8.64E-10		1.53E-13	1.39E-06	1.39E-06	87.36%
194	31	Surface	Uranium-238	1.72E+00	1.26E-08		3.63E-10	1.88E-07	2.01E-07	12.64%
194	31	Surface	**Totals**		**1.35E-08**		**3.63E-10**	**1.58E-06**	1.59E-06	
194	31	Surface	**Percent**		**0.85%**		**0.02%**	**99.13%**		
195	1	Surface	Chromium	6.33E+01			3.82E-07		3.82E-07	99.66%
195	1	Surface	Nickel	7.02E+01			1.31E-09		1.31E-09	0.34%
195	1	Surface	**Totals**				**3.84E-07**		3.84E-07	
195	1	Surface	**Percent**				**100.00%**			
195	2	Surface	Chromium	4.52E+01			2.73E-07		2.73E-07	47.82%
195	2	Surface	Total PAH	2.68E-02	6.23E-09	2.92E-07	1.27E-10		2.98E-07	52.18%
195	2	Surface	**Totals**		**6.23E-09**	**2.92E-07**	**2.73E-07**		5.71E-07	
195	2	Surface	**Percent**		**1.09%**	**51.07%**	**47.84%**			
195	3	Surface	Chromium	5.03E+01			3.04E-07		3.04E-07	40.18%
195	3	Surface	Nickel	5.22E+01			9.75E-10		9.75E-10	0.13%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
195	3	Surface	Total PAH	4.06E-02	9.44E-09	4.42E-07	1.92E-10		4.52E-07	59.69%
195	3	Surface	**Totals**		**9.44E-09**	**4.42E-07**	**3.05E-07**		7.56E-07	
195	3	Surface	**Percent**		**1.25%**	**58.42%**	**40.34%**			
195	4	Surface	Chromium	5.29E+01			3.20E-07		3.20E-07	99.64%
195	4	Surface	Nickel	6.23E+01			1.16E-09		1.16E-09	0.36%
195	4	Surface	**Totals**				**3.21E-07**		3.21E-07	
195	4	Surface	**Percent**				**100.00%**			
195	5	Surface	Chromium	5.74E+01			3.47E-07		3.47E-07	56.38%
195	5	Surface	Nickel	8.11E+01			1.52E-09		1.52E-09	0.25%
195	5	Surface	Total PAH	2.40E-02	5.58E-09	2.61E-07	1.14E-10		2.67E-07	43.38%
195	5	Surface	**Totals**		**5.58E-09**	**2.61E-07**	**3.49E-07**		6.15E-07	
195	5	Surface	**Percent**		**0.91%**	**42.45%**	**56.64%**			
195	6	Surface	Chromium	4.45E+01			2.69E-07		2.69E-07	8.90%
195	6	Surface	Nickel	8.71E+01			1.63E-09		1.63E-09	0.05%
195	6	Surface	Total PAH	2.48E-01	5.76E-08	2.70E-06	1.17E-09		2.75E-06	91.05%
195	6	Surface	**Totals**		**5.76E-08**	**2.70E-06**	**2.72E-07**		3.03E-06	
195	6	Surface	**Percent**		**1.90%**	**89.11%**	**8.99%**			
195	7	Surface	Chromium	4.93E+01			2.98E-07		2.98E-07	100.00%
195	7	Surface	**Totals**				**2.98E-07**		2.98E-07	
195	7	Surface	**Percent**				**100.00%**			
195	8	Surface	Arsenic	1.16E+01	5.52E-07	5.97E-06	3.59E-09		6.52E-06	14.20%
195	8	Surface	Beryllium	7.40E-01	1.01E-07	3.65E-05	1.28E-10		3.66E-05	79.65%
195	8	Surface	Chromium	6.79E+01			4.10E-07		4.10E-07	0.89%
195	8	Surface	Cobalt	1.82E+01			1.18E-08		1.18E-08	0.03%
195	8	Surface	Nickel	7.01E+01			1.31E-09		1.31E-09	0.00%
195	8	Surface	Total PAH	2.16E-01	5.01E-08	2.35E-06	1.02E-09		2.40E-06	5.22%
195	8	Surface	**Totals**		**7.04E-07**	**4.48E-05**	**4.28E-07**		4.59E-05	
195	8	Surface	**Percent**		**1.53%**	**97.53%**	**0.93%**			
195	9	Surface	Chromium	6.08E+01			3.67E-07		3.67E-07	99.60%
195	9	Surface	Nickel	7.93E+01			1.48E-09		1.48E-09	0.40%
195	9	Surface	**Totals**				**3.69E-07**		3.69E-07	
195	9	Surface	**Percent**				**100.00%**			
195	10	Surface	Chromium	4.51E+01			2.72E-07		2.72E-07	99.49%
195	10	Surface	Nickel	7.40E+01			1.38E-09		1.38E-09	0.51%
195	10	Surface	**Totals**				**2.74E-07**		2.74E-07	
195	10	Surface	**Percent**				**100.00%**			
195	11	Surface	Arsenic	1.35E+01	6.43E-07	6.95E-06	4.18E-09		7.59E-06	95.90%
195	11	Surface	Chromium	5.05E+01			3.05E-07		3.05E-07	3.85%
195	11	Surface	Cobalt	2.77E+01			1.79E-08		1.79E-08	0.23%
195	11	Surface	Nickel	6.77E+01			1.27E-09		1.27E-09	0.02%
195	11	Surface	**Totals**		**6.43E-07**	**6.95E-06**	**3.29E-07**		7.92E-06	
195	11	Surface	**Percent**		**8.12%**	**87.73%**	**4.15%**			
195	12	Surface	Beryllium	7.50E-01	1.03E-07	3.70E-05	1.29E-10		3.71E-05	98.86%
195	12	Surface	Chromium	7.04E+01			4.25E-07		4.25E-07	1.13%
195	12	Surface	Nickel	6.78E+01			1.27E-09		1.27E-09	0.00%
195	12	Surface	**Totals**		**1.03E-07**	**3.70E-05**	**4.27E-07**		3.75E-05	
195	12	Surface	**Percent**		**0.27%**	**98.59%**	**1.14%**			
195	13	Surface	Chromium	6.55E+01			3.96E-07		3.96E-07	99.67%
195	13	Surface	Nickel	6.91E+01			1.29E-09		1.29E-09	0.33%
195	13	Surface	**Totals**				**3.97E-07**		3.97E-07	
195	13	Surface	**Percent**				**100.00%**			
195	14	Surface	Chromium	5.94E+01			3.59E-07		3.59E-07	99.63%
195	14	Surface	Nickel	7.04E+01			1.32E-09		1.32E-09	0.37%
195	14	Surface	**Totals**				**3.60E-07**		3.60E-07	

SWMU = solid waste management unit
EU = exposure unit
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ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
195	14	Surface	**Percent**				**100.00%**			
195	15	Surface	Chromium	4.82E+01			2.91E-07		2.91E-07	100.00%
195	15	Surface	**Totals**				**2.91E-07**		2.91E-07	
195	15	Surface	**Percent**				**100.00%**			
195	16	Surface	Chromium	4.45E+01			2.69E-07		2.69E-07	99.44%
195	16	Surface	Nickel	8.16E+01			1.53E-09		1.53E-09	0.56%
195	16	Surface	**Totals**				**2.70E-07**		2.70E-07	
195	16	Surface	**Percent**				**100.00%**			
195	17	Surface	Chromium	8.22E+01			4.97E-07		4.97E-07	7.25%
195	17	Surface	Nickel	5.93E+01			1.11E-09		1.11E-09	0.02%
195	17	Surface	PCB, Total	7.40E-01	4.71E-08	2.38E-06	5.17E-08		2.48E-06	36.16%
195	17	Surface	Total PAH	3.16E-01	7.35E-08	3.44E-06	1.49E-09		3.51E-06	51.32%
195	17	Surface	Uranium-235	1.32E-01	7.53E-10		3.01E-11	6.87E-08	6.95E-08	1.02%
195	17	Surface	Uranium-238	2.48E+00	1.82E-08		5.24E-10	2.71E-07	2.90E-07	4.23%
195	17	Surface	**Totals**		**1.40E-07**	**5.81E-06**	**5.51E-07**	**3.40E-07**	6.85E-06	
195	17	Surface	**Percent**		**2.04%**	**84.94%**	**8.05%**	**4.96%**		
196	1	Surface	Chromium	1.96E+01			1.18E-07		1.18E-07	21.61%
196	1	Surface	Neptunium-237	3.11E-01	1.76E-09		1.24E-10	2.37E-07	2.39E-07	43.65%
196	1	Surface	Nickel	5.56E+02			1.04E-08		1.04E-08	1.90%
196	1	Surface	Uranium-238	1.54E+00	1.13E-08		3.25E-10	1.68E-07	1.80E-07	32.84%
196	1	Surface	**Totals**		**1.31E-08**		**1.29E-07**	**4.06E-07**	5.48E-07	
196	1	Surface	**Percent**		**2.39%**		**23.59%**	**74.03%**		
196	2	Surface	Cadmium	2.53E+00	3.06E-08	4.41E-07	3.28E-10		4.72E-07	3.50%
196	2	Surface	Chromium	2.07E+01			1.25E-07		1.25E-07	0.93%
196	2	Surface	Nickel	7.36E+01			1.38E-09		1.38E-09	0.01%
196	2	Surface	PCB, Total	1.51E+00	9.62E-08	4.85E-06	1.05E-07		5.05E-06	37.50%
196	2	Surface	Total PAH	6.80E-01	1.58E-07	7.40E-06	3.22E-09		7.56E-06	56.14%
196	2	Surface	Uranium-238	2.21E+00	1.62E-08		4.67E-10	2.42E-07	2.58E-07	1.92%
196	2	Surface	**Totals**		**3.01E-07**	**1.27E-05**	**2.36E-07**	**2.42E-07**	1.35E-05	
196	2	Surface	**Percent**		**2.24%**	**94.22%**	**1.75%**	**1.79%**		
200	1	Surface	Cesium-137	5.74E-01	8.70E-10		1.54E-13	1.40E-06	1.40E-06	12.43%
200	1	Surface	Chromium	5.75E+01			3.48E-07		3.48E-07	3.09%
200	1	Surface	Nickel	1.28E+02			2.39E-09		2.39E-09	0.02%
200	1	Surface	PCB, Total	2.60E+00	1.66E-07	8.35E-06	1.81E-07		8.70E-06	77.27%
200	1	Surface	Total PAH	2.84E-02	6.60E-09	3.09E-07	1.34E-10		3.16E-07	2.81%
200	1	Surface	Uranium-235	1.43E-01	8.16E-10		3.26E-11	7.45E-08	7.53E-08	0.67%
200	1	Surface	Uranium-238	3.58E+00	2.63E-08		7.55E-10	3.91E-07	4.18E-07	3.71%
200	1	Surface	**Totals**		**2.00E-07**	**8.66E-06**	**5.32E-07**	**1.86E-06**	1.13E-05	
200	1	Surface	**Percent**		**1.78%**	**76.93%**	**4.73%**	**16.56%**		
204	1	Surface	Beryllium	1.36E+00	1.86E-07	6.70E-05	2.35E-10		6.72E-05	86.91%
204	1	Surface	Cadmium	2.73E+00	3.30E-08	4.76E-07	3.53E-10		5.09E-07	0.66%
204	1	Surface	Chromium	7.40E+01			4.47E-07		4.47E-07	0.58%
204	1	Surface	PCB, Total	2.53E+00	1.61E-07	8.12E-06	1.77E-07		8.46E-06	10.94%
204	1	Surface	Uranium-235	1.80E-01	1.03E-09		4.11E-11	9.37E-08	9.48E-08	0.12%
204	1	Surface	Uranium-238	5.20E+00	3.82E-08		1.10E-09	5.68E-07	6.08E-07	0.79%
204	1	Surface	**Totals**		**4.20E-07**	**7.56E-05**	**6.25E-07**	**6.62E-07**	7.73E-05	
204	1	Surface	**Percent**		**0.54%**	**97.79%**	**0.81%**	**0.86%**		
204	2	Surface	Chromium	1.80E+01			1.09E-07		1.09E-07	16.06%
204	2	Surface	PCB, Total	1.70E-01	1.08E-08	5.46E-07	1.19E-08		5.69E-07	83.94%
204	2	Surface	**Totals**		**1.08E-08**	**5.46E-07**	**1.21E-07**		6.77E-07	
204	2	Surface	**Percent**		**1.60%**	**80.59%**	**17.81%**			
204	3	Surface	Chromium	2.06E+01			1.24E-07		1.24E-07	29.87%
204	3	Surface	Uranium-238	2.50E+00	1.84E-08		5.28E-10	2.73E-07	2.92E-07	70.13%
204	3	Surface	**Totals**		**1.84E-08**		**1.25E-07**	**2.73E-07**	4.17E-07	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
204	3	Surface	**Percent**		**4.41%**		**30.00%**	**65.59%**		
204	4	Surface	Chromium	2.89E+01			1.75E-07		1.75E-07	12.39%
204	4	Surface	Uranium-235	1.88E-01	1.07E-09		4.28E-11	9.78E-08	9.89E-08	7.01%
204	4	Surface	Uranium-238	9.72E+00	7.15E-08		2.05E-09	1.06E-06	1.14E-06	80.60%
204	4	Surface	**Totals**		**7.25E-08**		**1.77E-07**	**1.16E-06**	1.41E-06	
204	4	Surface	**Percent**		**5.14%**		**12.53%**	**82.32%**		
204	18	Surface	Cesium-137	6.30E-01	9.55E-10		1.69E-13	1.53E-06	1.54E-06	68.89%
204	18	Surface	Uranium-235	1.25E-01	7.13E-10		2.85E-11	6.51E-08	6.58E-08	2.95%
204	18	Surface	Uranium-238	5.37E+00	3.95E-08		1.13E-09	5.87E-07	6.28E-07	28.16%
204	18	Surface	**Totals**		**4.11E-08**		**1.16E-09**	**2.19E-06**	2.23E-06	
204	18	Surface	**Percent**		**1.85%**		**0.05%**	**98.10%**		
204	23	Surface	Americium-241	3.71E+00	2.82E-08		2.35E-09	9.82E-08	1.29E-07	0.01%
204	23	Surface	Beryllium	1.33E+00	1.82E-07	6.56E-05	2.30E-10		6.57E-05	7.47%
204	23	Surface	Cesium-137	1.17E+00	1.78E-09		3.15E-13	2.85E-06	2.86E-06	0.32%
204	23	Surface	Chromium	1.75E+02			1.06E-06		1.06E-06	0.12%
204	23	Surface	Cobalt-60	1.23E-02	1.73E-11		9.90E-15	1.46E-07	1.46E-07	0.02%
204	23	Surface	PCB, Total	7.90E+01	5.03E-06	2.54E-04	5.51E-06		2.64E-04	30.04%
204	23	Surface	Uranium-234	4.45E+02	2.46E-06		1.15E-07	1.08E-07	2.68E-06	0.31%
204	23	Surface	Uranium-235	5.70E+01	3.25E-07		1.30E-08	2.97E-05	3.00E-05	3.41%
204	23	Surface	Uranium-238	4.39E+03	3.22E-05		9.26E-07	4.79E-04	5.13E-04	58.29%
204	23	Surface	**Totals**		**4.03E-05**	**3.19E-04**	**7.63E-06**	**5.12E-04**	8.79E-04	
204	23	Surface	**Percent**		**4.58%**	**36.30%**	**0.87%**	**58.25%**		
211	1	Surface	Chromium	4.48E+01			2.70E-07		2.70E-07	7.65%
211	1	Surface	Neptunium-237	1.46E-01	8.28E-10		5.84E-11	1.11E-07	1.12E-07	3.18%
211	1	Surface	PCB, Total	3.60E-01	2.29E-08	1.16E-06	2.51E-08		1.20E-06	34.06%
211	1	Surface	Total PAH	1.04E-01	2.41E-08	1.13E-06	4.91E-10		1.15E-06	32.65%
211	1	Surface	Uranium-235	2.12E-01	1.21E-09		4.83E-11	1.10E-07	1.12E-07	3.16%
211	1	Surface	Uranium-238	5.84E+00	4.29E-08		1.23E-09	6.38E-07	6.83E-07	19.31%
211	1	Surface	**Totals**		**9.20E-08**	**2.29E-06**	**2.97E-07**	**8.60E-07**	3.54E-06	
211	1	Surface	**Percent**		**2.60%**	**64.65%**	**8.41%**	**24.33%**		
212	1	Surface	Arsenic	1.44E+01	6.89E-07	7.44E-06	4.48E-09		8.14E-06	14.42%
212	1	Surface	Beryllium	8.10E-01	1.11E-07	3.99E-05	1.40E-10		4.00E-05	70.99%
212	1	Surface	Cesium-137	6.01E-01	9.11E-10		1.61E-13	1.46E-06	1.46E-06	2.60%
212	1	Surface	Chromium	3.58E+01			2.16E-07		2.16E-07	0.38%
212	1	Surface	Cobalt-60	8.76E-03	1.24E-11		7.08E-15	1.04E-07	1.04E-07	0.18%
212	1	Surface	Neptunium-237	4.00E+00	2.27E-08		1.60E-09	3.05E-06	3.08E-06	5.46%
212	1	Surface	Nickel	8.69E+01			1.63E-09		1.63E-09	0.00%
212	1	Surface	PCB, Total	1.80E-01	1.15E-08	5.78E-07	1.26E-08		6.02E-07	1.07%
212	1	Surface	Plutonium-239/240	6.71E+00	6.48E-08		5.05E-09	1.29E-09	7.12E-08	0.13%
212	1	Surface	Thorium-230	2.60E+02	1.84E-06		1.67E-07	2.04E-07	2.21E-06	3.92%
212	1	Surface	Uranium-235	2.09E-01	1.19E-09		4.77E-11	1.09E-07	1.10E-07	0.20%
212	1	Surface	Uranium-238	3.17E+00	2.33E-08		6.69E-10	3.47E-07	3.70E-07	0.66%
212	1	Surface	**Totals**		**2.76E-06**	**4.79E-05**	**4.10E-07**	**5.28E-06**	5.64E-05	
212	1	Surface	**Percent**		**4.90%**	**85.01%**	**0.73%**	**9.36%**		
213	1	Surface	Chromium	4.78E+01			2.89E-07		2.89E-07	10.63%
213	1	Surface	Nickel	6.67E+01			1.25E-09		1.25E-09	0.05%
213	1	Surface	PCB, Total	7.30E-02	4.65E-09	2.34E-07	5.10E-09		2.44E-07	8.98%
213	1	Surface	Total PAH	1.72E-01	4.00E-08	1.87E-06	8.13E-10		1.91E-06	70.32%
213	1	Surface	Uranium-238	2.33E+00	1.71E-08		4.92E-10	2.55E-07	2.72E-07	10.02%
213	1	Surface	**Totals**		**6.17E-08**	**2.10E-06**	**2.97E-07**	**2.55E-07**	2.72E-06	
213	1	Surface	**Percent**		**2.27%**	**77.45%**	**10.91%**	**9.37%**		
213	2	Surface	Chromium	4.48E+01			2.71E-07		2.71E-07	99.38%
213	2	Surface	Nickel	9.10E+01			1.70E-09		1.70E-09	0.62%
213	2	Surface	**Totals**				**2.72E-07**		2.72E-07	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
213	2	Surface	**Percent**				**100.00%**			
215	1	Surface	Chromium	5.73E+01			3.46E-07		3.46E-07	27.77%
215	1	Surface	Nickel	7.32E+01			1.37E-09		1.37E-09	0.11%
215	1	Surface	Total PAH	8.09E-02	1.88E-08	8.80E-07	3.83E-10		9.00E-07	72.12%
215	1	Surface	**Totals**		**1.88E-08**	**8.80E-07**	**3.48E-07**		1.25E-06	
215	1	Surface	**Percent**		**1.51%**	**70.58%**	**27.91%**			
216	1	Surface	Chromium	2.38E+01			1.44E-07		1.44E-07	7.34%
216	1	Surface	Total PAH	1.49E-01	3.47E-08	1.63E-06	7.06E-10		1.66E-06	84.73%
216	1	Surface	Uranium-238	1.33E+00	9.78E-09		2.81E-10	1.45E-07	1.55E-07	7.93%
216	1	Surface	**Totals**		**4.45E-08**	**1.63E-06**	**1.45E-07**	**1.45E-07**	1.96E-06	
216	1	Surface	**Percent**		**2.27%**	**82.92%**	**7.39%**	**7.42%**		
217	1	Surface	Chromium	8.58E+01			5.18E-07		5.18E-07	77.65%
217	1	Surface	Cobalt	1.96E+01			1.27E-08		1.27E-08	1.90%
217	1	Surface	Nickel	8.54E+01			1.60E-09		1.60E-09	0.24%
217	1	Surface	Uranium-238	1.15E+00	8.48E-09		2.44E-10	1.26E-07	1.35E-07	20.21%
217	1	Surface	**Totals**		**8.48E-09**		**5.33E-07**	**1.26E-07**	6.67E-07	
217	1	Surface	**Percent**		**1.27%**		**79.82%**	**18.90%**		
217	2	Surface	Arsenic	1.12E+01	5.33E-07	5.76E-06	3.46E-09		6.30E-06	50.21%
217	2	Surface	Chromium	1.02E+02			6.14E-07		6.14E-07	4.90%
217	2	Surface	Cobalt	1.74E+01			1.13E-08		1.13E-08	0.09%
217	2	Surface	Nickel	9.74E+01			1.82E-09		1.82E-09	0.01%
217	2	Surface	Total PAH	5.05E-01	1.17E-07	5.50E-06	2.39E-09		5.62E-06	44.79%
217	2	Surface	**Totals**		**6.51E-07**	**1.13E-05**	**6.33E-07**		1.25E-05	
217	2	Surface	**Percent**		**5.19%**	**89.76%**	**5.05%**			
219	1	Surface	Neptunium-237	3.31E-01	1.88E-09		1.32E-10	2.53E-07	2.55E-07	14.93%
219	1	Surface	Nickel	6.71E+01			1.26E-09		1.26E-09	0.07%
219	1	Surface	Total PAH	7.50E-02	1.75E-08	8.17E-07	3.55E-10		8.35E-07	48.92%
219	1	Surface	Uranium-235	1.92E-01	1.10E-09		4.38E-11	1.00E-07	1.01E-07	5.93%
219	1	Surface	Uranium-238	4.40E+00	3.23E-08		9.29E-10	4.81E-07	5.14E-07	30.15%
219	1	Surface	**Totals**		**5.28E-08**	**8.17E-07**	**2.72E-09**	**8.34E-07**	1.71E-06	
219	1	Surface	**Percent**		**3.09%**	**47.88%**	**0.16%**	**48.87%**		
221	1	Surface	Chromium	7.01E+01			4.24E-07		4.24E-07	3.09%
221	1	Surface	Nickel	7.93E+01			1.48E-09		1.48E-09	0.01%
221	1	Surface	PCB, Total	5.00E-01	3.19E-08	1.61E-06	3.49E-08		1.67E-06	12.21%
221	1	Surface	Total PAH	1.02E+00	2.38E-07	1.11E-05	4.84E-09		1.14E-05	83.04%
221	1	Surface	Uranium-238	1.93E+00	1.42E-08		4.07E-10	2.11E-07	2.26E-07	1.65%
221	1	Surface	**Totals**		**2.84E-07**	**1.27E-05**	**4.65E-07**	**2.11E-07**	1.37E-05	
221	1	Surface	**Percent**		**2.07%**	**92.99%**	**3.40%**	**1.54%**		
222	1	Surface	Chromium	4.73E+01			2.86E-07		2.86E-07	2.96%
222	1	Surface	Nickel	9.19E+01			1.72E-09		1.72E-09	0.02%
222	1	Surface	PCB, Total	1.40E+00	8.92E-08	4.50E-06	9.77E-08		4.68E-06	48.44%
222	1	Surface	Total PAH	1.77E-01	4.12E-08	1.93E-06	8.38E-10		1.97E-06	20.38%
222	1	Surface	Uranium-234	1.04E+01	5.75E-08		2.68E-09	2.51E-09	6.27E-08	0.65%
222	1	Surface	Uranium-235	7.10E-01	4.05E-09		1.62E-10	3.70E-07	3.74E-07	3.87%
222	1	Surface	Uranium-238	1.96E+01	1.44E-07		4.14E-09	2.14E-06	2.29E-06	23.69%
222	1	Surface	**Totals**		**3.36E-07**	**6.42E-06**	**3.93E-07**	**2.51E-06**	9.67E-06	
222	1	Surface	**Percent**		**3.48%**	**66.45%**	**4.07%**	**26.01%**		
224	1	Surface	Chromium	4.49E+01			2.71E-07		2.71E-07	0.01%
224	1	Surface	PCB, Total	4.75E+02	3.03E-05	1.53E-03	3.32E-05		1.59E-03	75.81%
224	1	Surface	Total PAH	4.53E+01	1.05E-05	4.93E-04	2.14E-07		5.03E-04	24.02%
224	1	Surface	Uranium-235	2.50E-01	1.43E-09		5.70E-11	1.30E-07	1.32E-07	0.01%
224	1	Surface	Uranium-238	2.64E+01	1.94E-07		5.57E-09	2.89E-06	3.09E-06	0.15%
224	1	Surface	**Totals**		**4.10E-05**	**2.02E-03**	**3.36E-05**	**3.02E-06**	2.10E-03	
224	1	Surface	**Percent**		**1.96%**	**96.29%**	**1.61%**	**0.14%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
225	1	Surface	Chromium	2.55E+01			1.54E-07		1.54E-07	12.25%
225	1	Surface	Total PAH	7.79E-02	1.81E-08	8.47E-07	3.68E-10		8.66E-07	68.81%
225	1	Surface	Uranium-238	2.04E+00	1.50E-08		4.31E-10	2.23E-07	2.38E-07	18.95%
225	1	Surface	**Totals**		**3.31E-08**	**8.47E-07**	**1.55E-07**	**2.23E-07**	1.26E-06	
225	1	Surface	**Percent**		**2.63%**	**67.34%**	**12.31%**	**17.72%**		
226	1	Surface	Americium-241	1.62E+00	1.23E-08		1.03E-09	4.30E-08	5.63E-08	0.04%
226	1	Surface	Cesium-137	2.65E+00	4.02E-09		7.12E-13	6.45E-06	6.46E-06	4.61%
226	1	Surface	Chromium	4.25E+01			2.57E-07		2.57E-07	0.18%
226	1	Surface	Cobalt-60	3.14E-03	4.43E-12		2.54E-15	3.73E-08	3.73E-08	0.03%
226	1	Surface	Neptunium-237	1.60E+02	9.08E-07		6.40E-08	1.22E-04	1.23E-04	87.96%
226	1	Surface	Nickel	2.10E+02			3.92E-09		3.92E-09	0.00%
226	1	Surface	PCB, Total	1.49E+00	9.49E-08	4.78E-06	1.04E-07		4.98E-06	3.56%
226	1	Surface	Plutonium-238	2.13E+00	2.03E-08		1.62E-09	1.48E-10	2.21E-08	0.02%
226	1	Surface	Plutonium-239/240	6.52E+00	6.30E-08		4.90E-09	1.25E-09	6.91E-08	0.05%
226	1	Surface	Technetium-99	4.96E+01	1.33E-08		1.58E-11	3.87E-09	1.72E-08	0.01%
226	1	Surface	Thorium-230	4.77E+01	3.37E-07		3.07E-08	3.75E-08	4.06E-07	0.29%
226	1	Surface	Total PAH	9.19E-02	2.14E-08	1.00E-06	4.35E-10		1.02E-06	0.73%
226	1	Surface	Uranium-234	2.29E+01	1.27E-07		5.90E-09	5.54E-09	1.38E-07	0.10%
226	1	Surface	Uranium-235	1.10E+00	6.29E-09		2.51E-10	5.74E-07	5.80E-07	0.41%
226	1	Surface	Uranium-238	2.40E+01	1.76E-07		5.07E-09	2.62E-06	2.81E-06	2.00%
226	1	Surface	**Totals**		**1.78E-06**	**5.78E-06**	**4.79E-07**	**1.32E-04**	1.40E-04	
226	1	Surface	**Percent**		**1.27%**	**4.13%**	**0.34%**	**94.25%**		
227	1	Surface	Beryllium	5.52E-01	7.56E-08	2.72E-05	9.53E-11		2.73E-05	51.64%
227	1	Surface	Cesium-137	1.90E-01	2.88E-10		5.11E-14	4.63E-07	4.63E-07	0.88%
227	1	Surface	Chromium	4.71E+01			2.85E-07		2.85E-07	0.54%
227	1	Surface	Cobalt-60	1.53E-02	2.16E-11		1.24E-14	1.82E-07	1.82E-07	0.34%
227	1	Surface	Neptunium-237	9.05E-01	5.13E-09		3.62E-10	6.91E-07	6.96E-07	1.32%
227	1	Surface	Nickel	2.03E+02			3.80E-09		3.80E-09	0.01%
227	1	Surface	PCB, Total	4.14E+00	2.64E-07	1.33E-05	2.89E-07		1.39E-05	26.23%
227	1	Surface	Technetium-99	4.77E+01	1.28E-08		1.52E-11	3.72E-09	1.65E-08	0.03%
227	1	Surface	Total PAH	3.38E-01	7.86E-08	3.68E-06	1.60E-09		3.76E-06	7.11%
227	1	Surface	Uranium-234	1.54E+01	8.54E-08		3.97E-09	3.73E-09	9.31E-08	0.18%
227	1	Surface	Uranium-235	1.49E+00	8.50E-09		3.40E-10	7.76E-07	7.85E-07	1.49%
227	1	Surface	Uranium-238	4.63E+01	3.40E-07		9.77E-09	5.06E-06	5.41E-06	10.24%
227	1	Surface	**Totals**		**8.70E-07**	**4.42E-05**	**5.94E-07**	**7.18E-06**	5.28E-05	
227	1	Surface	**Percent**		**1.65%**	**83.64%**	**1.12%**	**13.59%**		
227	2	Surface	Beryllium	5.32E-01	7.29E-08	2.62E-05	9.18E-11		2.63E-05	55.07%
227	2	Surface	Chromium	5.63E+01			3.40E-07		3.40E-07	0.71%
227	2	Surface	Cobalt	8.99E+00			5.82E-09		5.82E-09	0.01%
227	2	Surface	Cobalt-60	1.37E-02	1.93E-11		1.11E-14	1.63E-07	1.63E-07	0.34%
227	2	Surface	Nickel	1.25E+02			2.34E-09		2.34E-09	0.00%
227	2	Surface	PCB, Total	5.82E+00	3.71E-07	1.87E-05	4.06E-07		1.95E-05	40.78%
227	2	Surface	Total PAH	1.16E-01	2.69E-08	1.26E-06	5.47E-10		1.29E-06	2.69%
227	2	Surface	Uranium-238	1.57E+00	1.16E-08		3.32E-10	1.72E-07	1.84E-07	0.39%
227	2	Surface	**Totals**		**4.82E-07**	**4.62E-05**	**7.56E-07**	**3.35E-07**	4.77E-05	
227	2	Surface	**Percent**		**1.01%**	**96.71%**	**1.58%**	**0.70%**		
228	1	Surface	Cadmium	3.90E+00	4.72E-08	6.80E-07	5.05E-10		7.28E-07	19.33%
228	1	Surface	Chromium	1.89E+02			1.14E-06		1.14E-06	30.32%
228	1	Surface	Neptunium-237	8.00E-01	4.54E-09		3.20E-10	6.11E-07	6.15E-07	16.35%
228	1	Surface	Nickel	7.92E+01			1.48E-09		1.48E-09	0.04%
228	1	Surface	Total PAH	6.69E-02	1.56E-08	7.28E-07	3.16E-10		7.44E-07	19.76%
228	1	Surface	Uranium-235	1.78E-01	1.02E-09		4.06E-11	9.27E-08	9.37E-08	2.49%
228	1	Surface	Uranium-238	3.77E+00	2.77E-08		7.96E-10	4.12E-07	4.41E-07	11.71%
228	1	Surface	**Totals**		**9.60E-08**	**1.41E-06**	**1.14E-06**	**1.12E-06**	3.76E-06	

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
228	1	Surface	**Percent**		**2.55%**	**37.40%**	**30.42%**	**29.63%**		
229	1	Surface	Nickel	9.14E+01			1.71E-09		1.71E-09	0.08%
229	1	Surface	Total PAH	1.57E-01	3.65E-08	1.71E-06	7.42E-10		1.74E-06	83.84%
229	1	Surface	Uranium-238	2.86E+00	2.10E-08		6.04E-10	3.13E-07	3.34E-07	16.07%
229	1	Surface	**Totals**		**5.75E-08**	**1.71E-06**	**3.05E-09**	**3.13E-07**	2.08E-06	
229	1	Surface	**Percent**		**2.76%**	**82.06%**	**0.15%**	**15.03%**		
229	2	Surface	Arsenic	2.12E+01	1.01E-06	1.09E-05	6.58E-09		1.20E-05	16.23%
229	2	Surface	Beryllium	7.90E-01	1.08E-07	3.89E-05	1.36E-10		3.90E-05	53.00%
229	2	Surface	Chromium	2.91E+01			1.76E-07		1.76E-07	0.24%
229	2	Surface	Neptunium-237	2.87E-01	1.63E-09		1.15E-10	2.19E-07	2.21E-07	0.30%
229	2	Surface	Nickel	9.93E+01			1.86E-09		1.86E-09	0.00%
229	2	Surface	Total PAH	1.69E+00	3.94E-07	1.84E-05	8.02E-09		1.88E-05	25.58%
229	2	Surface	Uranium-234	1.22E+01	6.75E-08		3.14E-09	2.95E-09	7.36E-08	0.10%
229	2	Surface	Uranium-235	8.40E-01	4.79E-09		1.92E-10	4.37E-07	4.42E-07	0.60%
229	2	Surface	Uranium-238	2.49E+01	1.83E-07		5.26E-09	2.72E-06	2.91E-06	3.95%
229	2	Surface	**Totals**		**1.77E-06**	**6.83E-05**	**2.01E-07**	**3.38E-06**	7.37E-05	
229	2	Surface	**Percent**		**2.41%**	**92.73%**	**0.27%**	**4.59%**		
483	1	Surface	Nickel	1.17E+02			2.18E-09		2.18E-09	0.81%
483	1	Surface	Total PAH	2.39E-02	5.56E-09	2.60E-07	1.13E-10		2.66E-07	99.19%
483	1	Surface	**Totals**		**5.56E-09**	**2.60E-07**	**2.29E-09**		2.68E-07	
483	1	Surface	**Percent**		**2.07%**	**97.07%**	**0.86%**			
486	1	Surface	Cesium-137	1.71E+00	2.59E-09		4.59E-13	4.16E-06	4.17E-06	100.00%
486	1	Surface	**Totals**		**2.59E-09**		**4.59E-13**	**4.16E-06**	4.17E-06	
486	1	Surface	**Percent**		**0.06%**		**0.00%**	**99.94%**		
487	1	Surface	Cesium-137	1.38E+00	2.09E-09		3.71E-13	3.36E-06	3.36E-06	100.00%
487	1	Surface	**Totals**		**2.09E-09**		**3.71E-13**	**3.36E-06**	**3.36E-06**	
487	1	Surface	**Percent**		**0.06%**		**0.00%**	**99.94%**		
488	1	Surface	Cesium-137	5.20E-01	7.88E-10		1.40E-13	1.27E-06	1.27E-06	3.24%
488	1	Surface	PCB, Total	1.03E+01	6.56E-07	3.31E-05	7.19E-07		3.45E-05	88.10%
488	1	Surface	Total PAH	2.50E-01	5.81E-08	2.72E-06	1.18E-09		2.78E-06	7.10%
488	1	Surface	Uranium-235	1.49E-01	8.50E-10		3.40E-11	7.76E-08	7.85E-08	0.20%
488	1	Surface	Uranium-238	4.54E+00	3.34E-08		9.59E-10	4.96E-07	5.31E-07	1.36%
488	1	Surface	**Totals**		**7.49E-07**	**3.58E-05**	**7.21E-07**	**1.84E-06**	3.91E-05	
488	1	Surface	**Percent**		**1.92%**	**91.53%**	**1.84%**	**4.71%**		
489	1	Surface	Chromium	4.16E+01			2.52E-07		2.52E-07	18.79%
489	1	Surface	Nickel	7.88E+01			1.47E-09		1.47E-09	0.11%
489	1	Surface	Total PAH	8.22E-02	1.91E-08	8.94E-07	3.89E-10		9.14E-07	68.27%
489	1	Surface	Uranium-238	1.47E+00	1.08E-08		3.10E-10	1.61E-07	1.72E-07	12.83%
489	1	Surface	**Totals**		**2.99E-08**	**8.94E-07**	**2.54E-07**	**1.61E-07**	1.34E-06	
489	1	Surface	**Percent**		**2.23%**	**66.81%**	**18.95%**	**12.00%**		
492	1	Surface	Arsenic	1.47E+01	7.02E-07	7.59E-06	4.56E-09		8.29E-06	1.14%
492	1	Surface	Beryllium	1.04E+01	1.42E-06	5.13E-04	1.80E-09		5.14E-04	70.90%
492	1	Surface	Cadmium	3.14E+00	3.80E-08	5.47E-07	4.07E-10		5.86E-07	0.08%
492	1	Surface	Chromium	1.04E+03			6.28E-06		6.28E-06	0.87%
492	1	Surface	Cobalt-60	9.63E-03	1.36E-11		7.78E-15	1.15E-07	1.15E-07	0.02%
492	1	Surface	Neptunium-237	2.09E-01	1.19E-09		8.35E-11	1.60E-07	1.61E-07	0.02%
492	1	Surface	PCB, Total	4.41E+01	2.81E-06	1.42E-04	3.08E-06		1.48E-04	20.34%
492	1	Surface	Uranium-234	5.39E+01	2.98E-07		1.39E-08	1.30E-08	3.25E-07	0.04%
492	1	Surface	Uranium-235	5.72E+00	3.26E-08		1.30E-09	2.98E-06	3.01E-06	0.42%
492	1	Surface	Uranium-238	3.83E+02	2.82E-06		8.09E-08	4.19E-05	4.48E-05	6.17%
492	1	Surface	**Totals**		**8.12E-06**	**6.62E-04**	**9.47E-06**	**4.51E-05**	7.25E-04	
492	1	Surface	**Percent**		**1.12%**	**91.35%**	**1.31%**	**6.22%**		
493	1	Surface	Beryllium	9.91E-01	1.36E-07	4.88E-05	1.71E-10		4.90E-05	86.20%
493	1	Surface	Chromium	6.61E+01			3.99E-07		3.99E-07	0.70%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
493	1	Surface	Cobalt	3.79E+01			2.45E-08		2.45E-08	0.04%
493	1	Surface	Cobalt-60	1.36E-02	1.92E-11		1.10E-14	1.62E-07	1.62E-07	0.28%
493	1	Surface	Neptunium-237	1.22E-01	6.92E-10		4.88E-11	9.31E-08	9.39E-08	0.17%
493	1	Surface	Nickel	2.13E+02			3.98E-09		3.98E-09	0.01%
493	1	Surface	PCB, Total	2.60E-01	1.66E-08	8.35E-07	1.81E-08		8.70E-07	1.53%
493	1	Surface	Total PAH	5.00E-01	1.16E-07	5.44E-06	2.36E-09		5.56E-06	9.78%
493	1	Surface	Uranium-235	1.65E-01	9.41E-10		3.76E-11	8.59E-08	8.69E-08	0.15%
493	1	Surface	Uranium-238	5.50E+00	4.04E-08		1.16E-09	6.01E-07	6.43E-07	1.13%
493	1	Surface	**Totals**		**3.11E-07**	**5.51E-05**	**4.50E-07**	**9.42E-07**	5.68E-05	
493	1	Surface	**Percent**		**0.55%**	**97.00%**	**0.79%**	**1.66%**		
517	1	Surface	Beryllium	7.39E-01	1.01E-07	3.64E-05	1.28E-10		3.65E-05	91.46%
517	1	Surface	Chromium	4.91E+01			2.97E-07		2.97E-07	0.74%
517	1	Surface	Cobalt-60	6.39E-03	9.01E-12		5.17E-15	7.60E-08	7.60E-08	0.19%
517	1	Surface	Neptunium-237	1.07E+00	6.07E-09		4.28E-10	8.17E-07	8.23E-07	2.06%
517	1	Surface	Nickel	1.72E+02			3.22E-09		3.22E-09	0.01%
517	1	Surface	PCB, Total	5.00E-01	3.19E-08	1.61E-06	3.49E-08		1.67E-06	4.19%
517	1	Surface	Uranium-235	1.60E-01	9.13E-10		3.65E-11	8.33E-08	8.43E-08	0.21%
517	1	Surface	Uranium-238	3.89E+00	2.86E-08		8.21E-10	4.25E-07	4.55E-07	1.14%
517	1	Surface	**Totals**		**1.69E-07**	**3.80E-05**	**3.36E-07**	**1.40E-06**	3.99E-05	
517	1	Surface	**Percent**		**0.42%**	**95.23%**	**0.84%**	**3.51%**		
518	1	Surface	Carbazole	1.17E+01	7.47E-09	2.69E-07			2.76E-07	0.51%
518	1	Surface	Cobalt	6.80E+00			4.41E-09		4.41E-09	0.01%
518	1	Surface	Nickel	1.29E+01			2.41E-10		2.41E-10	0.00%
518	1	Surface	PCB, Total	6.30E-01	4.01E-08	2.02E-06	4.40E-08		2.11E-06	3.89%
518	1	Surface	Total PAH	4.64E+00	1.08E-06	5.05E-05	2.19E-08		5.16E-05	95.20%
518	1	Surface	Uranium-235	6.74E-02	3.85E-10		1.54E-11	3.51E-08	3.55E-08	0.07%
518	1	Surface	Uranium-238	1.51E+00	1.11E-08		3.20E-10	1.66E-07	1.77E-07	0.33%
518	1	Surface	**Totals**		**1.14E-06**	**5.28E-05**	**7.09E-08**	**2.01E-07**	5.42E-05	
518	1	Surface	**Percent**		**2.10%**	**97.40%**	**0.13%**	**0.37%**		
520	1	Surface	Cesium-137	9.62E-01	1.46E-09		2.58E-13	2.34E-06	2.34E-06	58.30%
520	1	Surface	Chromium	3.17E+01			1.92E-07		1.92E-07	4.77%
520	1	Surface	Neptunium-237	6.56E-01	3.72E-09		2.62E-10	5.01E-07	5.05E-07	12.55%
520	1	Surface	Nickel	2.60E+02			4.87E-09		4.87E-09	0.12%
520	1	Surface	Thorium-230	1.13E+01	8.02E-08		7.30E-09	8.91E-09	9.64E-08	2.40%
520	1	Surface	Total PAH	3.18E-02	7.40E-09	3.46E-07	1.51E-10		3.54E-07	8.80%
520	1	Surface	Uranium-235	1.26E-01	7.19E-10		2.87E-11	6.56E-08	6.64E-08	1.65%
520	1	Surface	Uranium-238	3.93E+00	2.89E-08		8.30E-10	4.29E-07	4.59E-07	11.42%
520	1	Surface	**Totals**		**1.22E-07**	**3.46E-07**	**2.05E-07**	**3.35E-06**	4.02E-06	
520	1	Surface	**Percent**		**3.04%**	**8.62%**	**5.10%**	**83.24%**		
520	2	Surface	Beryllium	5.79E-01	7.93E-08	2.85E-05	1.00E-10		2.86E-05	87.20%
520	2	Surface	Chromium	6.67E+01			4.03E-07		4.03E-07	1.23%
520	2	Surface	Neptunium-237	7.48E-02	4.24E-10		2.99E-11	5.71E-08	5.75E-08	0.18%
520	2	Surface	Nickel	3.11E+02			5.81E-09		5.81E-09	0.02%
520	2	Surface	Total PAH	3.17E-01	7.37E-08	3.45E-06	1.50E-09		3.53E-06	10.74%
520	2	Surface	Uranium-238	1.78E+00	1.31E-08		3.75E-10	1.94E-07	2.08E-07	0.63%
520	2	Surface	**Totals**		**1.67E-07**	**3.20E-05**	**4.11E-07**	**2.51E-07**	3.28E-05	
520	2	Surface	**Percent**		**0.51%**	**97.48%**	**1.25%**	**0.77%**		
520	3	Surface	Chromium	3.97E+01			2.40E-07		2.40E-07	13.77%
520	3	Surface	Nickel	2.65E+02			4.95E-09		4.95E-09	0.28%
520	3	Surface	Total PAH	1.18E-01	2.75E-08	1.29E-06	5.58E-10		1.31E-06	75.41%
520	3	Surface	Uranium-238	1.57E+00	1.15E-08		3.31E-10	1.72E-07	1.83E-07	10.54%
520	3	Surface	**Totals**		**3.90E-08**	**1.29E-06**	**2.46E-07**	**1.72E-07**	1.74E-06	
520	3	Surface	**Percent**		**2.24%**	**73.80%**	**14.10%**	**9.85%**		
520	4	Surface	Chromium	3.82E+01			2.31E-07		2.31E-07	2.96%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
520	4	Surface	Neptunium-237	7.40E-01	4.20E-09		2.96E-10	5.65E-07	5.69E-07	7.29%
520	4	Surface	Nickel	2.82E+02			5.27E-09		5.27E-09	0.07%
520	4	Surface	Total PAH	5.52E-01	1.28E-07	6.01E-06	2.61E-09		6.14E-06	78.68%
520	4	Surface	Uranium-235	2.42E-01	1.38E-09		5.52E-11	1.26E-07	1.27E-07	1.63%
520	4	Surface	Uranium-238	6.26E+00	4.60E-08		1.32E-09	6.84E-07	7.32E-07	9.37%
520	4	Surface	**Totals**		**1.80E-07**	**6.01E-06**	**2.41E-07**	**1.38E-06**	7.81E-06	
520	4	Surface	**Percent**		**2.31%**	**77.00%**	**3.08%**	**17.61%**		
520	5	Surface	Chromium	3.68E+01			2.22E-07		2.22E-07	4.62%
520	5	Surface	Neptunium-237	1.55E-01	8.79E-10		6.20E-11	1.18E-07	1.19E-07	2.47%
520	5	Surface	Nickel	1.47E+02			2.75E-09		2.75E-09	0.06%
520	5	Surface	Total PAH	3.87E-01	9.01E-08	4.21E-06	1.83E-09		4.31E-06	89.34%
520	5	Surface	Uranium-238	1.45E+00	1.07E-08		3.06E-10	1.59E-07	1.69E-07	3.52%
520	5	Surface	**Totals**		**1.02E-07**	**4.21E-06**	**2.27E-07**	**2.77E-07**	4.82E-06	
520	5	Surface	**Percent**		**2.11%**	**87.43%**	**4.72%**	**5.74%**		
531	1	Surface	Arsenic	4.68E+01	2.24E-06	2.42E-05	1.45E-08		2.64E-05	93.10%
531	1	Surface	Cadmium	3.10E+00	3.75E-08	5.40E-07	4.01E-10		5.78E-07	2.04%
531	1	Surface	Chromium	5.05E+01			3.05E-07		3.05E-07	1.07%
531	1	Surface	Nickel	1.62E+02			3.03E-09		3.03E-09	0.01%
531	1	Surface	Total PAH	5.34E-02	1.24E-08	5.81E-07	2.52E-10		5.94E-07	2.09%
531	1	Surface	Uranium-235	1.38E-01	7.87E-10		3.15E-11	7.19E-08	7.27E-08	0.26%
531	1	Surface	Uranium-238	3.48E+00	2.56E-08		7.35E-10	3.80E-07	4.07E-07	1.43%
531	1	Surface	**Totals**		**2.31E-06**	**2.53E-05**	**3.24E-07**	**4.52E-07**	2.84E-05	
531	1	Surface	**Percent**		**8.15%**	**89.11%**	**1.14%**	**1.59%**		
541	1	Surface	Americium-241	7.53E+00	5.72E-08		4.78E-09	1.99E-07	2.61E-07	0.07%
541	1	Surface	Beryllium	6.98E-01	9.56E-08	3.44E-05	1.21E-10		3.45E-05	8.66%
541	1	Surface	Cadmium	1.68E+00	2.04E-08	2.93E-07	2.18E-10		3.14E-07	0.08%
541	1	Surface	Cesium-137	9.58E-01	1.45E-09		2.57E-13	2.33E-06	2.33E-06	0.59%
541	1	Surface	Chromium	8.24E+02			4.98E-06		4.98E-06	1.25%
541	1	Surface	Cobalt-60	1.01E-02	1.42E-11		8.16E-15	1.20E-07	1.20E-07	0.03%
541	1	Surface	Naphthalene	6.55E-01			5.38E-08		5.38E-08	0.01%
541	1	Surface	Neptunium-237	5.52E-02	3.13E-10		2.21E-11	4.21E-08	4.25E-08	0.01%
541	1	Surface	Nickel	1.52E+01			2.85E-10		2.85E-10	0.00%
541	1	Surface	PCB, Total	6.06E+01	3.86E-06	1.95E-04	4.23E-06		2.03E-04	50.89%
541	1	Surface	Total PAH	2.33E+00	5.42E-07	2.53E-05	1.10E-08		2.59E-05	6.50%
541	1	Surface	Uranium-234	1.43E+02	7.90E-07		3.68E-08	3.45E-08	8.62E-07	0.22%
541	1	Surface	Uranium-235	1.76E+01	1.00E-07		4.00E-09	9.14E-06	9.25E-06	2.32%
541	1	Surface	Uranium-238	1.00E+03	7.36E-06		2.11E-07	1.09E-04	1.17E-04	29.37%
541	1	Surface	**Totals**		**1.28E-05**	**2.55E-04**	**9.53E-06**	**1.21E-04**	3.98E-04	
541	1	Surface	**Percent**		**3.22%**	**63.94%**	**2.39%**	**30.45%**		
561	1	Surface	Arsenic	1.66E+01	7.91E-07	8.54E-06	5.14E-09		9.34E-06	14.79%
561	1	Surface	Beryllium	6.85E-01	9.38E-08	3.38E-05	1.18E-10		3.39E-05	53.65%
561	1	Surface	Chromium	8.58E+01			5.18E-07		5.18E-07	0.82%
561	1	Surface	Cobalt	1.07E+01			6.92E-09		6.92E-09	0.01%
561	1	Surface	Cobalt-60	7.06E-02	9.96E-11		5.71E-14	8.39E-07	8.40E-07	1.33%
561	1	Surface	Neptunium-237	2.71E-02	1.54E-10		1.08E-11	2.07E-08	2.08E-08	0.03%
561	1	Surface	PCB, Total	1.04E+00	6.64E-08	3.35E-06	7.27E-08		3.49E-06	5.52%
561	1	Surface	Total PAH	1.65E-01	3.84E-08	1.80E-06	7.81E-10		1.84E-06	2.91%
561	1	Surface	Uranium-234	7.84E+00	4.33E-08		2.02E-09	1.89E-09	4.73E-08	0.07%
561	1	Surface	Uranium-235	1.37E+00	7.79E-09		3.12E-10	7.11E-07	7.19E-07	1.14%
561	1	Surface	Uranium-238	1.07E+02	7.83E-07		2.25E-08	1.16E-05	1.24E-05	19.72%
561	1	Surface	**Totals**		**1.82E-06**	**4.74E-05**	**6.29E-07**	**1.32E-05**	6.31E-05	
561	1	Surface	**Percent**		**2.89%**	**75.18%**	**1.00%**	**20.94%**		
561	2	Surface	Arsenic	1.30E+01	6.22E-07	6.71E-06	4.04E-09		7.34E-06	4.82%
561	2	Surface	Beryllium	6.34E-01	8.68E-08	3.13E-05	1.09E-10		3.13E-05	20.58%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
561	2	Surface	Cadmium	4.13E-01	5.00E-09	7.20E-08	5.35E-11		7.70E-08	0.05%
561	2	Surface	Cesium-137	4.09E-01	6.20E-10		1.10E-13	9.96E-07	9.97E-07	0.65%
561	2	Surface	Chromium	2.88E+02			1.74E-06		1.74E-06	1.14%
561	2	Surface	Cobalt	1.14E+01			7.38E-09		7.38E-09	0.00%
561	2	Surface	Cobalt-60	2.76E-02	3.89E-11		2.23E-14	3.28E-07	3.28E-07	0.22%
561	2	Surface	Neptunium-237	4.71E-02	2.67E-10		1.88E-11	3.60E-08	3.62E-08	0.02%
561	2	Surface	PCB, Total	1.64E+01	1.04E-06	5.25E-05	1.14E-06		5.47E-05	35.93%
561	2	Surface	Total PAH	4.43E-01	1.03E-07	4.82E-06	2.10E-09		4.93E-06	3.24%
561	2	Surface	Uranium-234	4.06E+01	2.25E-07		1.05E-08	9.82E-09	2.45E-07	0.16%
561	2	Surface	Uranium-235	7.09E+00	4.05E-08		1.62E-09	3.69E-06	3.74E-06	2.45%
561	2	Surface	Uranium-238	4.00E+02	2.94E-06		8.45E-08	4.38E-05	4.68E-05	30.72%
561	2	Surface	**Totals**		**5.07E-06**	**9.54E-05**	**2.99E-06**	**4.88E-05**	1.52E-04	
561	2	Surface	**Percent**		**3.33%**	**62.65%**	**1.97%**	**32.06%**		
562	1	Surface	Uranium-238	2.73E+00	2.01E-08		5.76E-10	2.98E-07	3.19E-07	100.00%
562	1	Surface	**Totals**		**2.01E-08**		**5.76E-10**	**2.98E-07**	3.19E-07	
562	1	Surface	**Percent**		**6.29%**		**0.18%**	**93.53%**		
562	2	Surface	PCB, Total	1.58E+00	1.01E-07	5.07E-06	1.10E-07		5.28E-06	6.76%
562	2	Surface	Uranium-234	5.34E+01	2.95E-07		1.37E-08	1.29E-08	3.22E-07	0.41%
562	2	Surface	Uranium-235	8.96E+00	5.11E-08		2.04E-09	4.67E-06	4.72E-06	6.03%
562	2	Surface	Uranium-238	5.81E+02	4.27E-06		1.23E-07	6.35E-05	6.79E-05	86.80%
562	2	Surface	**Totals**		**4.72E-06**	**5.07E-06**	**2.49E-07**	**6.82E-05**	7.82E-05	
562	2	Surface	**Percent**		**6.03%**	**6.49%**	**0.32%**	**87.17%**		
562	3	Surface	Chromium	3.82E+01			2.31E-07		2.31E-07	4.76%
562	3	Surface	PCB, Total	2.40E-01	1.53E-08	7.71E-07	1.68E-08		8.03E-07	16.59%
562	3	Surface	Total PAH	2.20E-01	5.12E-08	2.39E-06	1.04E-09		2.45E-06	50.55%
562	3	Surface	Uranium-235	1.63E-01	9.30E-10		3.72E-11	8.49E-08	8.58E-08	1.77%
562	3	Surface	Uranium-238	1.09E+01	8.01E-08		2.30E-09	1.19E-06	1.27E-06	26.32%
562	3	Surface	**Totals**		**1.47E-07**	**3.17E-06**	**2.51E-07**	**1.28E-06**	4.84E-06	
562	3	Surface	**Percent**		**3.05%**	**65.40%**	**5.18%**	**26.37%**		
562	4	Surface	Chromium	4.67E+01			2.82E-07		2.82E-07	51.85%
562	4	Surface	Uranium-238	2.24E+00	1.65E-08		4.73E-10	2.45E-07	2.62E-07	48.15%
562	4	Surface	**Totals**		**1.65E-08**		**2.82E-07**	**2.45E-07**	5.44E-07	
562	4	Surface	**Percent**		**3.03%**		**51.94%**	**45.03%**		
562	5	Surface	Chromium	1.53E+02			9.25E-07		9.25E-07	7.27%
562	5	Surface	PCB, Total	9.50E-01	6.05E-08	3.05E-06	6.63E-08		3.18E-06	24.96%
562	5	Surface	Total PAH	7.05E-02	1.64E-08	7.67E-07	3.33E-10		7.84E-07	6.16%
562	5	Surface	Uranium-234	8.57E+00	4.74E-08		2.21E-09	2.07E-09	5.17E-08	0.41%
562	5	Surface	Uranium-235	9.50E-01	5.42E-09		2.17E-10	4.95E-07	5.00E-07	3.93%
562	5	Surface	Uranium-238	6.24E+01	4.59E-07		1.32E-08	6.82E-06	7.29E-06	57.28%
562	5	Surface	**Totals**		**5.88E-07**	**3.82E-06**	**1.01E-06**	**7.32E-06**	**1.27E-05**	
562	5	Surface	**Percent**		**4.62%**	**29.99%**	**7.91%**	**57.48%**		
563	1	Surface	Cadmium	8.96E-01	1.08E-08	1.56E-07	1.16E-10		1.67E-07	3.57%
563	1	Surface	Chromium	2.85E+02			1.72E-06		1.72E-06	36.74%
563	1	Surface	PCB, Total	7.40E-01	4.71E-08	2.38E-06	5.17E-08		2.48E-06	52.81%
563	1	Surface	Uranium-238	2.76E+00	2.03E-08		5.83E-10	3.02E-07	3.23E-07	6.88%
563	1	Surface	**Totals**		**7.83E-08**	**2.53E-06**	**1.77E-06**	**3.02E-07**	4.69E-06	
563	1	Surface	**Percent**		**1.67%**	**54.03%**	**37.86%**	**6.44%**		
563	2	Surface	Cesium-137	6.47E-01	9.81E-10		1.74E-13	1.58E-06	1.58E-06	90.05%
563	2	Surface	Uranium-238	1.49E+00	1.10E-08		3.15E-10	1.63E-07	1.74E-07	9.95%
563	2	Surface	**Totals**		**1.19E-08**		**3.15E-10**	**1.74E-06**	1.75E-06	
563	2	Surface	**Percent**		**0.68%**		**0.02%**	**99.30%**		
564	1	Surface	Arsenic	4.30E+01	2.05E-06	2.22E-05	1.33E-08		2.43E-05	17.44%
564	1	Surface	Beryllium	2.12E+00	2.90E-07	1.04E-04	3.66E-10		1.05E-04	75.34%
564	1	Surface	Cadmium	1.96E+00	2.37E-08	3.42E-07	2.54E-10		3.66E-07	0.26%

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.33. ELCR for the Teen Recreational User (Continued)

SWMU	EU	Depth	COPC	EPC (mg/kg or pCi/g)	Ingestion	Dermal	Inhalation	External Exposure	ELCR	Percent
564	1	Surface	Cesium-137	6.20E-01	9.40E-10		1.67E-13	1.51E-06	1.51E-06	1.09%
564	1	Surface	Chromium	7.49E+01			4.53E-07		4.53E-07	0.33%
564	1	Surface	Nickel	2.24E+01			4.19E-10		4.19E-10	0.00%
564	1	Surface	PCB, Total	1.93E+00	1.23E-07	6.20E-06	1.35E-07		6.46E-06	4.64%
564	1	Surface	Thorium-230	5.01E+00	3.54E-08		3.22E-09	3.93E-09	4.26E-08	0.03%
564	1	Surface	Uranium-234	6.93E+00	3.83E-08		1.78E-09	1.67E-09	4.18E-08	0.03%
564	1	Surface	Uranium-235	3.87E-01	2.21E-09		8.83E-11	2.02E-07	2.04E-07	0.15%
564	1	Surface	Uranium-238	8.33E+00	6.12E-08		1.76E-09	9.11E-07	9.74E-07	0.70%
564	1	Surface	**Totals**		**2.63E-06**	**1.33E-04**	**6.09E-07**	**2.63E-06**	**1.39E-04**	
564	1	Surface	**Percent**		**1.89%**	**95.78%**	**0.44%**	**1.89%**		
567	3	Surface	Chromium	3.79E+01			2.29E-07		2.29E-07	100.00%
567	3	Surface	**Totals**				**2.29E-07**		2.29E-07	
567	3	Surface	**Percent**				**100.00%**			
567	4	Surface	Chromium	1.63E+01			9.85E-08		9.85E-08	44.55%
567	4	Surface	Uranium-238	1.05E+00	7.71E-09		2.21E-10	1.15E-07	1.23E-07	55.45%
567	4	Surface	**Totals**		**7.71E-09**		**9.87E-08**	**1.15E-07**	2.21E-07	
567	4	Surface	**Percent**		**3.49%**		**44.65%**	**51.86%**		

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk

Table D.34. Screening Level Residential Health Evaluation Results of Model Soil Vapor Above the UCRS

SWMU	Sample ID	Modeled Soil Vapor Result[a] (µg/m^3)	Inhalation		Maximum Modeled Indoor Air Concentration (µg/m3)	Vapor Intrusion Risk*			
	Sample Location Description		Cancer slope factor (mg/kg/day)-1[b]	Noncarcinogenic Reference Dose (mg/kg/day)		Carcinogenic Risk Adult	Carcinogenic Risk Child	Noncancer Hazard Quotient-Adult (HQ)	Noncancer Hazard Quotient Child (HQ)
12	1,1-DCE	**951,000**	1.8E-01	5.7E-02	1.0E+03	1.7E-02	1.0E-02	5.0E+00	1.2E+01
					Total	**1.7E-02**	**1.0E-02**	**5.0E+00**	**1.2E+01**
47	TCE	**121,000**	3.2E-01	1.1E-02	1.2E+02	3.7E-03	2.2E-03	2.9E+00	6.8E+00
					Total	**3.7E-03**	**2.2E-03**	**2.9E+00**	**6.8E+00**

Notes:

[a] Modeled soil vapor result is from SESOIL modeling presented in Appendix C.

Based on use of EPA's JEM spreadsheet model : SG-SCREEN-Feb04.xls using the following site-specific assumptions:

Average soil/groundwater temperature is 19.4 degrees C (67 degrees F) using USEPA JEM guidance (2004) Figure 8

Depth below grade to bottom of enclosed space floor 200 cm for building slab on grade.

Soil vapor sampling depth is surface of UCRS, or 13 ft which = 400 cm below grade.

Average soil temperature = 15 C

Soil stratum SCS Soil type is silt clay (SIC).

Soil vapor permeability associated with soil types in JEM model.

Soil properties (dry bulk density, total porosity, water-filled porosity) used SCS classification defaults from model.

Soil vapor permeability associated with soil types in JEM model.

Standard Exposure assumptions from Risk Methods Document (DOE 2011):

Adult:

Exposure duration (ED) = 30 years, exposure frequency (EF) = 350 days/yr, body weight (BW) = 70 kg, inhalation rate (Ira)= 20m3/day

Average time for carcinogens (Atc) = 25550 days; noncarcinogens Atnc = 30 years x 365 days/year or 10,950 days, CF = 1000 µg/mg.

Child:

Exposure duration (ED) = 6 years, exposure frequency (EF) = 350 days/yr, body weight (BW) = 15 kg, inhalation rate (Ira)= 10 m3/day

Average time for carcinogens (Atc) = 25550 days; noncarcinogens Atnc = 6 years x 365 days/year or 2,190 days, CF=1000

*Risk = CSF * Indoor air concentration * Inha* EF *ED)/(BW x Atcarc x 1000)

* Hazard Quotient = (Indoor air concentration * Inha* EF *ED)/(BW x Atncarc x RfD x 1000)

[b] Provisional value of 0.41 mg/kg/day-1 published in 2001 National Center for Environmental Assesment (NCEA) as per EPA Region 4 was used.

References:

USEPA 2004. User's Guide for the Johnson and Ettinger 1991 Model For Subsurface Vapor Intrusion Into Buildings (Revised). Office of Emergency and Remedial Response. Available On-line.

USEPA2001. Trichloroethylene health Risk Assessment: Synthesis and Characterization, Office of Research and Development, NCEA, Washington, DC EPA/600/P-01/002A, August.

CALEPA 2007. Toxicity Criteria Database, Office of Environmental health hazard Assessment, Berkeley, CA, © 2003 State of California (www.oeha.ca.gov/risk/ChemicalDB/index.asp)

Table D.35. HIs for the Child Residential Receptor Exposed to RGA Groundwater at the SWMU Boundary

SWMU	COPC	EPC	Ingestion	Dermal	Inhalation through showering	Inhalation through household use	HI	Percent
12	1,1-Dichloroethene	2.52E-03	<0.01	<0.01	<0.01	0.01	0.02	100.00%
12	**Totals**		**<0.01**	**<0.01**	**<0.01**	**0.01**	**0.02**	
12	**Percent**		26.40%	0.99%	11.68%	60.93%		
47	Trichloroethene	1.42E-05	<0.01	<0.01	<0.01	<0.01	0.01	100.00%
47	**Totals**		**<0.01**	**<0.01**	**<0.01**	**<0.01**	**0.01**	
47	**Percent**		**88.55%**	**4.13%**	**1.18%**	**6.14%**		

Table D.36. HIs for the Adult Residential Receptor Exposed to RGA Groundwater at the SWMU Boundary

SWMU	COPC	EPC	Ingestion	Dermal	Inhalation through showering	Inhalation through household use	HI	Percent
12	1,1-Dichloroethene	2.52E-03	<0.01	<0.01	<0.01	<0.01	<0.01	100.00%
12	**Totals**		**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	
12	**Percent**		**86.23%**	**8.42%**	**0.86%**	**4.49%**		
47	Trichloroethene	1.42E-05	<0.01	<0.01	<0.01	<0.01	<0.01	100.00%
47	**Totals**		**<0.01**	**<0.01**	**<0.01**	**<0.01**	**<0.01**	
47	**Percent**		**86.23%**	**8.42%**	**0.86%**	**4.49%**		

Table D.37. ELCR for the Child Residential Receptor Exposed to RGA Groundwater at the SWMU Boundary

SWMU	COPC	EPC	Ingestion	Dermal	Inhalation through showering	Inhalation through household use	ELCR	Percent
12	1,1-Dichloroethene	0.00252	1.24E-05	4.66E-07	1.83E-06	9.55E-06	2.43E-05	100.00%
12	**Totals**		**1.24E-05**	**4.66E-07**	**1.83E-06**	**9.55E-06**	**2.43E-05**	
12	**Percent**		**51.18%**	**1.92%**	**7.55%**	**39.35%**		
47	Trichloroethene	0.0000142	3.76E-08	1.75E-09	1.90E-08	9.91E-08	1.57E-07	100.00%
47	**Totals**		**3.76E-08**	**1.75E-09**	**1.90E-08**	**9.91E-08**	**1.57E-07**	
47	**Percent**		**23.88%**	**1.11%**	**12.07%**	**62.94%**		

Table D.38. ELCR for the Adult Residential Receptor Exposed to RGA Groundwater at the SWMU Boundary

SWMU	COPC	EPC	Ingestion	Dermal	Inhalation through showering	Inhalation through household use	ELCR	Percent
12	1,1-Dichloroethene	2.52E-03	1.42E-05	1.11E-06	1.57E-06	8.19E-06	2.51E-05	100.00%
12	**Totals**		**1.42E-05**	**1.11E-06**	**1.57E-06**	**8.19E-06**	**2.51E-05**	
12	**Percent**		**56.64%**	**4.45%**	**6.26%**	**32.66%**		
47	Trichloroethene	1.42E-05	4.30E-08	4.20E-09	1.63E-08	8.49E-08	1.48E-07	100.00%
47	**Totals**		**4.30E-08**	**4.20E-09**	**1.63E-08**	**8.49E-08**	**1.48E-07**	
47	**Percent**		**28.95%**	**2.83%**	**10.98%**	**57.24%**		

Table D.39. Surface Soil Dose Assessment

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
1	1	Cesium-137	0.591	0.27	0.37	1.55	1.55	0.13
1	1	Neptunium-237	0.402	0.22	0.10	0.40	0.46	0.03
1	1	Plutonium-239/240	6.142	1.93	0.27	0.76	1.52	0.06
1	1	Thorium-230	44.01	2.15	0.31	0.89	1.73	0.07
1	1	Uranium-235	0.106	0.01	0.02	0.06	0.06	0.01
1	1	Uranium-238	1.974	0.09	0.07	0.24	0.26	0.02
1	1	**Totals**		**4.67**	**1.15**	**3.91**	**5.59**	**0.33**
1	3	Uranium-238	1.73	0.08	0.06	0.21	0.23	0.02
1	3	**Totals**		**0.08**	**0.06**	**0.21**	**0.23**	**0.02**
1	4	Cobalt-60	0.022	0.05	0.07	0.27	0.27	0.02
1	4	Thorium-230	5.03	0.25	0.04	0.10	0.20	0.01
1	4	**Totals**		**0.29**	**0.10**	**0.37**	**0.47**	**0.03**
99	1	Cobalt-60	0.0119	0.03	0.04	0.15	0.15	0.01
99	1	Uranium-238	0.945	0.04	0.03	0.12	0.13	0.01
99	1	**Totals**		**0.07**	**0.07**	**0.26**	**0.27**	**0.02**
194	2	Uranium-238	1.42	0.06	0.05	0.18	0.19	0.02
194	2	**Totals**		**0.06**	**0.05**	**0.18**	**0.19**	**0.02**
194	3	Uranium-238	1.284	0.06	0.05	0.16	0.17	0.02
194	3	**Totals**		**0.06**	**0.05**	**0.16**	**0.17**	**0.02**
194	4	Uranium-238	1.73	0.08	0.06	0.21	0.23	0.02
194	4	**Totals**		**0.08**	**0.06**	**0.21**	**0.23**	**0.02**
194	5	Uranium-238	1.38	0.06	0.05	0.17	0.18	0.02
194	5	**Totals**		**0.06**	**0.05**	**0.17**	**0.18**	**0.02**
194	6	Uranium-238	1.32	0.06	0.05	0.16	0.18	0.02
194	6	**Totals**		**0.06**	**0.05**	**0.16**	**0.18**	**0.02**
194	8	Uranium-238	1.39	0.06	0.05	0.17	0.19	0.02
194	8	**Totals**		**0.06**	**0.05**	**0.17**	**0.19**	**0.02**
194	10	Cesium-137	0.581	0.27	0.36	1.52	1.52	0.13
194	10	Uranium-238	1.49	0.07	0.05	0.18	0.20	0.02
194	10	**Totals**		**0.34**	**0.42**	**1.70**	**1.72**	**0.15**
194	31	Cesium-137	0.57	0.27	0.36	1.49	1.49	0.12
194	31	Uranium-238	1.72	0.08	0.06	0.21	0.23	0.02
194	31	**Totals**		**0.34**	**0.42**	**1.70**	**1.72**	**0.15**
196	1	Neptunium-237	0.311	0.17	0.08	0.31	0.36	0.03
196	1	Uranium-238	1.54	0.07	0.06	0.19	0.21	0.02
196	1	**Totals**		**0.24**	**0.14**	**0.50**	**0.56**	**0.05**
196	2	Uranium-238	2.21	0.10	0.08	0.27	0.29	0.03
196	2	**Totals**		**0.10**	**0.08**	**0.27**	**0.29**	**0.03**

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.39. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
211	1	Neptunium-237	0.146	0.08	0.04	0.15	0.17	0.01
211	1	Uranium-235	0.212	0.03	0.03	0.13	0.13	0.01
211	1	Uranium-238	5.84	0.27	0.21	0.72	0.78	0.07
211	1	**Totals**		**0.37**	**0.28**	**0.99**	**1.07**	**0.10**
489	1	Uranium-238	1.47	0.07	0.05	0.18	0.20	0.02
489	1	**Totals**		**0.07**	**0.05**	**0.18**	**0.20**	**0.02**
531	1	Uranium-235	0.138	0.02	0.02	0.08	0.08	0.01
531	1	Uranium-238	3.48	0.16	0.13	0.43	0.46	0.04
531	1	**Totals**		**0.18**	**0.15**	**0.51**	**0.55**	**0.05**
47	1	Neptunium-237	0.115	0.06	0.03	0.12	0.13	0.01
47	1	Plutonium-239/240	4.11	1.29	0.18	0.51	1.02	0.04
47	1	Thorium-230	41.1	2.00	0.29	0.83	1.62	0.07
47	1	Uranium-234	6.85	0.17	0.02	0.07	0.14	0.01
47	1	Uranium-235	0.5	0.06	0.07	0.30	0.30	0.02
47	1	Uranium-238	7.93	0.36	0.29	0.98	1.06	0.10
47	1	**Totals**		**3.96**	**0.89**	**2.80**	**4.27**	**0.25**
200	1	Cesium-137	0.574	0.27	0.36	1.50	1.50	0.13
200	1	Uranium-235	0.143	0.02	0.02	0.08	0.09	0.01
200	1	Uranium-238	3.577	0.16	0.13	0.44	0.48	0.04
200	1	**Totals**		**0.45**	**0.51**	**2.03**	**2.07**	**0.18**
212	1	Cesium-137	0.601	0.28	0.38	1.57	1.57	0.13
212	1	Cobalt-60	0.00876	0.02	0.03	0.11	0.11	0.01
212	1	Neptunium-237	4	2.17	1.03	4.00	4.62	0.33
212	1	Plutonium-239/240	6.71	2.11	0.30	0.83	1.67	0.07
212	1	Thorium-230	260	12.68	1.86	5.24	10.24	0.44
212	1	Uranium-235	0.209	0.03	0.03	0.12	0.13	0.01
212	1	Uranium-238	3.17	0.14	0.11	0.39	0.42	0.04
212	1	**Totals**		**17.44**	**3.73**	**12.27**	**18.75**	**1.03**
213	1	Uranium-238	2.33	0.11	0.08	0.29	0.31	0.03
213	1	**Totals**		**0.11**	**0.08**	**0.29**	**0.31**	**0.03**
216	1	Uranium-238	1.33	0.06	0.05	0.16	0.18	0.02
216	1	**Totals**		**0.06**	**0.05**	**0.16**	**0.18**	**0.02**
217	1	Uranium-238	1.154	0.05	0.04	0.14	0.15	0.01
217	1	**Totals**		**0.05**	**0.04**	**0.14**	**0.15**	**0.01**
221	1	Uranium-238	1.93	0.09	0.07	0.24	0.26	0.02
221	1	**Totals**		**0.09**	**0.07**	**0.24**	**0.26**	**0.02**
222	1	Uranium-234	10.4	0.26	0.04	0.11	0.21	0.01
222	1	Uranium-235	0.71	0.09	0.10	0.42	0.43	0.03

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Table D.39. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
222	1	Uranium-238	19.6	0.89	0.71	2.42	2.61	0.25
222	1	**Totals**		**1.24**	**0.85**	**2.95**	**3.25**	**0.29**
224	1	Uranium-235	0.25	0.03	0.04	0.15	0.15	0.01
224	1	Uranium-238	26.4	1.20	0.95	3.26	3.52	0.33
224	1	**Totals**		**1.23**	**0.99**	**3.41**	**3.67**	**0.34**
225	1	Uranium-238	2.04	0.09	0.07	0.25	0.27	0.03
225	1	**Totals**		**0.09**	**0.07**	**0.25**	**0.27**	**0.03**
226	1	Americium-241	1.623	0.53	0.09	0.26	0.47	0.02
226	1	Cesium-137	2.65	1.23	1.66	6.94	6.94	0.58
226	1	Cobalt-60	0.00314	0.01	0.01	0.04	0.04	0.00
226	1	Neptunium-237	160.1	87.01	41.05	160.10	184.87	13.34
226	1	Plutonium-238	2.132	0.61	0.09	0.24	0.48	0.02
226	1	Plutonium-239/240	6.52	2.05	0.29	0.81	1.62	0.07
226	1	Technetium-99	49.61	0.01	0.00	0.01	0.01	0.00
226	1	Thorium-230	47.72	2.33	0.34	0.96	1.88	0.08
226	1	Uranium-234	22.93	0.58	0.08	0.23	0.46	0.02
226	1	Uranium-235	1.102	0.14	0.16	0.65	0.66	0.05
226	1	Uranium-238	24	1.09	0.87	2.96	3.20	0.30
226	1	**Totals**		**95.58**	**44.63**	**173.21**	**200.62**	**14.49**
227	1	Cesium-137	0.19	0.09	0.12	0.50	0.50	0.04
227	1	Cobalt-60	0.0153	0.03	0.05	0.19	0.19	0.02
227	1	Neptunium-237	0.905	0.49	0.23	0.91	1.05	0.08
227	1	Technetium-99	47.72	0.01	0.00	0.01	0.01	0.00
227	1	Uranium-234	15.44	0.39	0.06	0.16	0.31	0.01
227	1	Uranium-235	1.49	0.19	0.21	0.88	0.89	0.07
227	1	Uranium-238	46.28	2.10	1.67	5.71	6.17	0.58
227	1	**Totals**		**3.30**	**2.34**	**8.35**	**9.12**	**0.80**
227	2	Cobalt-60	0.0137	0.03	0.04	0.17	0.17	0.01
227	2	Uranium-238	1.573	0.07	0.06	0.19	0.21	0.02
227	2	**Totals**		**0.10**	**0.10**	**0.36**	**0.38**	**0.03**
228	1	Neptunium-237	0.8	0.43	0.21	0.80	0.92	0.07
228	1	Uranium-235	0.178	0.02	0.03	0.11	0.11	0.01
228	1	Uranium-238	3.77	0.17	0.14	0.47	0.50	0.05
228	1	**Totals**		**0.63**	**0.37**	**1.37**	**1.53**	**0.12**
229	1	Uranium-238	2.86	0.13	0.10	0.35	0.38	0.04
229	1	**Totals**		**0.13**	**0.10**	**0.35**	**0.38**	**0.04**
229	2	Neptunium-237	0.287	0.16	0.07	0.29	0.33	0.02
229	2	Uranium-234	12.2	0.31	0.04	0.13	0.25	0.01

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Table D.39. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
229	2	Uranium-235	0.84	0.11	0.12	0.50	0.50	0.04
229	2	Uranium-238	24.9	1.13	0.90	3.07	3.32	0.31
229	2	**Totals**		**1.70**	**1.14**	**3.98**	**4.40**	**0.39**
26	1	Cesium-137	3.164	1.47	1.98	8.28	8.28	0.69
26	1	Cobalt-60	0.00193	0.00	0.01	0.02	0.02	0.00
26	1	Neptunium-237	0.261	0.14	0.07	0.26	0.30	0.02
26	1	Plutonium-239/240	4.036	1.27	0.18	0.50	1.00	0.04
26	1	Thorium-230	3.817	0.19	0.03	0.08	0.15	0.01
26	1	Uranium-234	4.665	0.12	0.02	0.05	0.09	0.00
26	1	Uranium-235	0.641	0.08	0.09	0.38	0.38	0.03
26	1	Uranium-238	34.67	1.58	1.25	4.28	4.62	0.43
26	1	**Totals**		**4.85**	**3.62**	**13.85**	**14.86**	**1.23**
26	2	Cesium-137	5.922	2.75	3.70	15.50	15.50	1.29
26	2	Neptunium-237	0.789	0.43	0.20	0.79	0.91	0.07
26	2	Thorium-230	15.13	0.74	0.11	0.31	0.60	0.03
26	2	Uranium-234	19.07	0.48	0.07	0.20	0.38	0.02
26	2	Uranium-235	1.707	0.22	0.24	1.01	1.02	0.08
26	2	Uranium-238	51.44	2.34	1.86	6.35	6.86	0.64
26	2	**Totals**		**6.96**	**6.18**	**24.15**	**25.27**	**2.13**
26	3	Cesium-137	0.748	0.35	0.47	1.96	1.96	0.16
26	3	Neptunium-237	0.753	0.41	0.19	0.75	0.87	0.06
26	3	Technetium-99	64.76	0.01	0.00	0.01	0.01	0.00
26	3	Thorium-230	7.097	0.35	0.05	0.14	0.28	0.01
26	3	Uranium-234	46.34	1.17	0.17	0.47	0.93	0.04
26	3	Uranium-235	1.691	0.21	0.24	1.00	1.01	0.08
26	3	Uranium-238	51.85	2.36	1.87	6.40	6.91	0.65
26	3	**Totals**		**4.85**	**2.99**	**10.74**	**11.98**	**1.01**
26	4	Americium-241	1.273	0.42	0.07	0.20	0.37	0.02
26	4	Cesium-137	0.638	0.30	0.40	1.67	1.67	0.14
26	4	Cobalt-60	0.00121	0.00	0.00	0.02	0.02	0.00
26	4	Neptunium-237	13.57	7.38	3.48	13.57	15.67	1.13
26	4	Plutonium-239/240	5.003	1.57	0.22	0.62	1.24	0.05
26	4	Technetium-99	597.3	0.09	0.02	0.09	0.12	0.01
26	4	Thorium-230	32.62	1.59	0.23	0.66	1.28	0.06
26	4	Uranium-234	154.4	3.89	0.56	1.58	3.11	0.13
26	4	Uranium-235	10.8	1.40	1.50	6.40	6.50	0.50
26	4	Uranium-238	365.9	16.6	13.2	45.2	48.8	4.6
26	4	**Totals**		**33.20**	**19.70**	**70.00**	**78.70**	**6.60**

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Table D.39. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
76	1	Uranium-238	1.45	0.07	0.05	0.18	0.19	0.02
76	1	**Totals**		**0.07**	**0.05**	**0.18**	**0.19**	**0.02**
165	1	Cesium-137	3.471	1.61	2.17	9.09	9.09	0.76
165	1	Neptunium-237	0.426	0.23	0.11	0.43	0.49	0.04
165	1	Plutonium-239/240	2.805	0.88	0.12	0.35	0.70	0.03
165	1	Thorium-230	6.017	0.29	0.04	0.12	0.24	0.01
165	1	Uranium-234	57.55	1.45	0.21	0.59	1.16	0.05
165	1	Uranium-235	2.045	0.26	0.29	1.21	1.22	0.10
165	1	Uranium-238	64.09	2.91	2.31	7.91	8.55	0.80
165	1	**Totals**		**7.64**	**5.26**	**19.69**	**21.44**	**1.78**
170	1	Neptunium-237	0.115	0.06	0.03	0.12	0.13	0.01
170	1	Uranium-238	1.53	0.07	0.06	0.19	0.20	0.02
170	1	**Totals**		**0.13**	**0.08**	**0.30**	**0.34**	**0.03**
158	1	Uranium-235	0.163	0.02	0.02	0.10	0.10	0.01
158	1	Uranium-238	3.79	0.17	0.14	0.47	0.51	0.05
158	1	**Totals**		**0.19**	**0.16**	**0.56**	**0.60**	**0.06**
169	1	Uranium-234	6.55	0.16	0.02	0.07	0.13	0.01
169	1	Uranium-235	0.46	0.06	0.07	0.27	0.28	0.02
169	1	Uranium-238	8.12	0.37	0.29	1.00	1.08	0.10
169	1	**Totals**		**0.59**	**0.38**	**1.34**	**1.49**	**0.13**
195	17	Uranium-235	0.132	0.02	0.02	0.08	0.08	0.01
195	17	Uranium-238	2.48	0.11	0.09	0.31	0.33	0.03
195	17	**Totals**		**0.13**	**0.11**	**0.38**	**0.41**	**0.04**
204	1	Uranium-235	0.18	0.02	0.03	0.11	0.11	0.01
204	1	Uranium-238	5.2	0.24	0.19	0.64	0.69	0.07
204	1	**Totals**		**0.26**	**0.21**	**0.75**	**0.80**	**0.07**
204	3	Uranium-238	2.5	0.11	0.09	0.31	0.33	0.03
204	3	**Totals**		**0.11**	**0.09**	**0.31**	**0.33**	**0.03**
204	4	Uranium-235	0.1878	0.02	0.03	0.11	0.11	0.01
204	4	Uranium-238	9.723	0.44	0.35	1.20	1.30	0.12
204	4	**Totals**		**0.47**	**0.38**	**1.31**	**1.41**	**0.13**
204	18	Cesium-137	0.63	0.29	0.39	1.65	1.65	0.14
204	18	Uranium-235	0.125	0.02	0.02	0.07	0.07	0.01
204	18	Uranium-238	5.37	0.24	0.19	0.66	0.72	0.07
204	18	**Totals**		**0.55**	**0.61**	**2.39**	**2.44**	**0.21**
204	23	Americium-241	3.709	1.22	0.20	0.60	1.07	0.05
204	23	Cesium-137	1.172	0.55	0.73	3.07	3.07	0.26
204	23	Cobalt-60	0.01225	0.03	0.04	0.15	0.15	0.01

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Table D.39. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
204	23	Uranium-234	445	11.21	1.62	4.56	8.97	0.38
204	23	Uranium-235	57	7.19	8.07	33.73	34.13	2.81
204	23	Uranium-238	4386	199.36	158.34	541.48	584.80	54.83
204	23	**Totals**		**219.55**	**169.00**	**583.59**	**632.19**	**58.33**
486	1	Cesium-137	1.71	0.8	1.1	4.5	4.5	0.4
486	1	**Totals**		**0.8**	**1.1**	**4.5**	**4.5**	**0.4**
487	1	Cesium-137	1.38	0.6	0.9	3.6	3.6	0.3
487	1	**Totals**		**0.6**	**0.9**	**3.6**	**3.6**	**0.3**
492	1	Cobalt-60	0.00963	0.02	0.03	0.12	0.12	0.01
492	1	Neptunium-237	0.209	0.11	0.05	0.21	0.24	0.02
492	1	Uranium-234	53.9	1.36	0.20	0.55	1.09	0.05
492	1	Uranium-235	5.72	0.72	0.81	3.38	3.43	0.28
492	1	Uranium-238	383	17.41	13.83	47.28	51.07	4.79
492	1	**Totals**		**19.62**	**14.91**	**51.55**	**55.94**	**5.14**
493	1	Cobalt-60	0.0136	0.03	0.04	0.17	0.17	0.01
493	1	Neptunium-237	0.122	0.07	0.03	0.12	0.14	0.01
493	1	Uranium-235	0.165	0.02	0.02	0.10	0.10	0.01
493	1	Uranium-238	5.5	0.25	0.20	0.68	0.73	0.07
493	1	**Totals**		**0.37**	**0.29**	**1.07**	**1.14**	**0.10**
517	1	Cobalt-60	0.00639	0.01	0.02	0.08	0.08	0.01
517	1	Neptunium-237	1.07	0.58	0.27	1.07	1.24	0.09
517	1	Uranium-235	0.16	0.02	0.02	0.09	0.10	0.01
517	1	Uranium-238	3.89	0.18	0.14	0.48	0.52	0.05
517	1	**Totals**		**0.79**	**0.46**	**1.72**	**1.93**	**0.15**
541	1	Americium-241	7.532	2.48	0.40	1.21	2.17	0.10
541	1	Cesium-137	0.958	0.45	0.60	2.51	2.51	0.21
541	1	Cobalt-60	0.0101	0.02	0.03	0.13	0.13	0.01
541	1	Neptunium-237	0.0552	0.03	0.01	0.06	0.06	0.00
541	1	Uranium-234	142.9	3.60	0.52	1.46	2.88	0.12
541	1	Uranium-235	17.56	2.21	2.49	10.39	10.51	0.87
541	1	Uranium-238	1001	45.50	36.14	123.58	133.47	12.51
541	1	**Totals**		**54.29**	**40.19**	**139.34**	**151.73**	**13.83**
561	1	Cobalt-60	0.0706	0.15	0.21	0.88	0.88	0.07
561	1	Neptunium-237	0.0271	0.01	0.01	0.03	0.03	0.00
561	1	Uranium-234	7.839	0.20	0.03	0.08	0.16	0.01
561	1	Uranium-235	1.366	0.17	0.19	0.81	0.82	0.07
561	1	Uranium-238	106.5	4.84	3.84	13.15	14.20	1.33
561	1	**Totals**		**5.38**	**4.28**	**14.94**	**16.08**	**1.48**

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EPC = exposure point concentration

Table D.39. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
561	2	Cesium-137	0.409	0.19	0.26	1.07	1.07	0.09
561	2	Cobalt-60	0.0276	0.06	0.08	0.34	0.34	0.03
561	2	Neptunium-237	0.0471	0.03	0.01	0.05	0.05	0.00
561	2	Uranium-234	40.63	1.02	0.15	0.42	0.82	0.03
561	2	Uranium-235	7.093	0.89	1.00	4.20	4.25	0.35
561	2	Uranium-238	400.3	18.20	14.45	49.42	53.37	5.00
561	2	**Totals**		**20.39**	**15.95**	**55.49**	**59.91**	**5.51**
562	1	Uranium-238	2.73	0.12	0.10	0.34	0.36	0.03
562	1	**Totals**		**0.12**	**0.10**	**0.34**	**0.36**	**0.03**
562	2	Uranium-234	53.4	1.35	0.19	0.55	1.08	0.05
562	2	Uranium-235	8.96	1.13	1.27	5.30	5.37	0.44
562	2	Uranium-238	581	26.41	20.97	71.73	77.47	7.26
562	2	**Totals**		**28.88**	**22.44**	**77.58**	**83.91**	**7.75**
562	3	Uranium-235	0.163	0.02	0.02	0.10	0.10	0.01
562	3	Uranium-238	10.9	0.50	0.39	1.35	1.45	0.14
562	3	**Totals**		**0.52**	**0.42**	**1.44**	**1.55**	**0.14**
562	4	Uranium-238	2.24	0.10	0.08	0.28	0.30	0.03
562	4	**Totals**		**0.10**	**0.08**	**0.28**	**0.30**	**0.03**
562	5	Uranium-234	8.57	0.22	0.03	0.09	0.17	0.01
562	5	Uranium-235	0.95	0.12	0.13	0.56	0.57	0.05
562	5	Uranium-238	62.4	2.84	2.25	7.70	8.32	0.78
562	5	**Totals**		**3.20**	**2.40**	**8.40**	**9.10**	**0.80**
563	1	Uranium-238	2.76	0.13	0.10	0.34	0.37	0.03
563	1	**Totals**		**0.13**	**0.10**	**0.34**	**0.37**	**0.03**
563	2	Cesium-137	0.647	0.30	0.40	1.69	1.69	0.14
563	2	Uranium-238	1.49	0.07	0.05	0.18	0.20	0.02
563	2	**Totals**		**0.37**	**0.46**	**1.88**	**1.89**	**0.16**
564	1	Cesium-137	0.62	0.29	0.39	1.62	1.62	0.14
564	1	Thorium-230	5.01	0.24	0.04	0.10	0.20	0.01
564	1	Uranium-234	6.93	0.17	0.03	0.07	0.14	0.01
564	1	Uranium-235	0.387	0.05	0.05	0.23	0.23	0.02
564	1	Uranium-238	8.33	0.38	0.30	1.03	1.11	0.10
564	1	**Totals**		**1.10**	**0.80**	**3.10**	**3.30**	**0.30**
567	4	Uranium-238	1.049	0.05	0.04	0.13	0.14	0.01
567	4	**Totals**		**0.05**	**0.04**	**0.13**	**0.14**	**0.01**
12	1	Uranium-234	15.02	0.38	0.05	0.15	0.30	0.01
12	1	Uranium-235	1.526	0.19	0.22	0.90	0.91	0.08
12	1	Uranium-238	66.84	3.04	2.41	8.25	8.91	0.84

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Table D.39. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
12	1	**Totals**		**3.61**	**2.68**	**9.31**	**10.13**	**0.92**
13	4	Uranium-238	1.32	0.06	0.05	0.16	0.18	0.02
13	4	**Totals**		**0.06**	**0.05**	**0.16**	**0.18**	**0.02**
13	6	Uranium-238	1.316	0.06	0.05	0.16	0.18	0.02
13	6	**Totals**		**0.06**	**0.05**	**0.16**	**0.18**	**0.02**
13	9	Neptunium-237	0.89	0.48	0.23	0.89	1.03	0.07
13	9	Uranium-235	0.311	0.04	0.04	0.18	0.19	0.02
13	9	Uranium-238	6.08	0.28	0.22	0.75	0.81	0.08
13	9	**Totals**		**0.80**	**0.49**	**1.82**	**2.02**	**0.17**
13	11	Cobalt-60	0.013	0.03	0.04	0.16	0.16	0.01
13	11	**Totals**		**0.03**	**0.04**	**0.16**	**0.16**	**0.01**
14	1	Americium-241	1.267	0.42	0.07	0.20	0.37	0.02
14	1	Neptunium-237	0.214	0.12	0.05	0.21	0.25	0.02
14	1	Technetium-99	406	0.06	0.02	0.06	0.08	0.01
14	1	Uranium-238	1.69	0.08	0.06	0.21	0.23	0.02
14	1	**Totals**		**0.67**	**0.20**	**0.69**	**0.92**	**0.06**
14	2	Neptunium-237	0.77	0.42	0.20	0.77	0.89	0.06
14	2	Thorium-230	5.98	0.29	0.04	0.12	0.24	0.01
14	2	Uranium-234	32.4	0.82	0.12	0.33	0.65	0.03
14	2	Uranium-235	2	0.25	0.28	1.18	1.20	0.10
14	2	Uranium-238	56.1	2.55	2.03	6.93	7.48	0.70
14	2	**Totals**		**4.33**	**2.67**	**9.33**	**10.46**	**0.90**
14	3	Uranium-238	1.5	0.07	0.05	0.19	0.20	0.02
14	3	**Totals**		**0.07**	**0.05**	**0.19**	**0.20**	**0.02**
14	4	Neptunium-237	2.68	1.46	0.69	2.68	3.09	0.22
14	4	Thorium-230	8.33	0.41	0.06	0.17	0.33	0.01
14	4	Uranium-234	113	2.85	0.41	1.16	2.28	0.10
14	4	Uranium-235	8	1.01	1.13	4.73	4.79	0.39
14	4	Uranium-238	169	7.68	6.10	20.86	22.53	2.11
14	4	**Totals**		**13.40**	**8.39**	**29.60**	**33.02**	**2.84**
14	5	Neptunium-237	1.74	0.95	0.45	1.74	2.01	0.15
14	5	Technetium-99	101	0.01	0.00	0.01	0.02	0.00
14	5	Thorium-230	13.9	0.68	0.10	0.28	0.55	0.02
14	5	Uranium-234	52.2	1.31	0.19	0.53	1.05	0.04
14	5	Uranium-235	3.33	0.42	0.47	1.97	1.99	0.16
14	5	Uranium-238	94.2	4.28	3.40	11.63	12.56	1.18
14	5	**Totals**		**7.66**	**4.61**	**16.17**	**18.18**	**1.56**
14	6	Neptunium-237	2.65	1.44	0.68	2.65	3.06	0.22

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Table D.39. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
14	6	Uranium-234	34.1	0.86	0.12	0.35	0.69	0.03
14	6	Uranium-235	2.27	0.29	0.32	1.34	1.36	0.11
14	6	Uranium-238	50.8	2.31	1.83	6.27	6.77	0.64
14	6	**Totals**		**4.89**	**2.96**	**10.61**	**11.88**	**1.00**
14	7	Neptunium-237	1.49	0.81	0.38	1.49	1.72	0.12
14	7	Uranium-234	12.8	0.32	0.05	0.13	0.26	0.01
14	7	Uranium-235	0.96	0.12	0.14	0.57	0.57	0.05
14	7	Uranium-238	21.3	0.97	0.77	2.63	2.84	0.27
14	7	**Totals**		**2.22**	**1.33**	**4.82**	**5.39**	**0.45**
14	8	Neptunium-237	0.88	0.48	0.23	0.88	1.02	0.07
14	8	Uranium-235	0.238	0.03	0.03	0.14	0.14	0.01
14	8	Uranium-238	5.92	0.27	0.21	0.73	0.79	0.07
14	8	**Totals**		**0.78**	**0.47**	**1.75**	**1.95**	**0.16**
14	9	Cesium-137	0.453	0.21	0.28	1.19	1.19	0.10
14	9	Neptunium-237	10.93	5.94	2.80	10.93	12.62	0.91
14	9	Technetium-99	195.9	0.03	0.01	0.03	0.04	0.00
14	9	Uranium-234	832.1	20.96	3.03	8.53	16.78	0.71
14	9	Uranium-235	54.55	6.88	7.73	32.28	32.66	2.69
14	9	Uranium-238	1200	54.55	43.32	148.15	160.00	15.00
14	9	**Totals**		**88.56**	**57.17**	**201.10**	**223.29**	**19.41**
14	10	Neptunium-237	2.64	1.43	0.68	2.64	3.05	0.22
14	10	Uranium-234	24.2	0.61	0.09	0.25	0.49	0.02
14	10	Uranium-235	1.76	0.22	0.25	1.04	1.05	0.09
14	10	Uranium-238	40.9	1.86	1.48	5.05	5.45	0.51
14	10	**Totals**		**4.13**	**2.49**	**8.98**	**10.04**	**0.84**
15	1	Uranium-238	1.85	0.08	0.07	0.23	0.25	0.02
15	1	**Totals**		**0.08**	**0.07**	**0.23**	**0.25**	**0.02**
15	2	Neptunium-237	0.135	0.07	0.03	0.14	0.16	0.01
15	2	Uranium-234	6.51	0.16	0.02	0.07	0.13	0.01
15	2	Uranium-235	0.38	0.05	0.05	0.22	0.23	0.02
15	2	Uranium-238	12.1	0.55	0.44	1.49	1.61	0.15
15	2	**Totals**		**0.84**	**0.55**	**1.92**	**2.13**	**0.19**
15	3	Neptunium-237	4.1	2.23	1.05	4.10	4.73	0.34
15	3	Technetium-99	367	0.05	0.02	0.05	0.07	0.00
15	3	Thorium-230	7.23	0.35	0.05	0.15	0.28	0.01
15	3	Uranium-234	69.6	1.75	0.25	0.71	1.40	0.06
15	3	Uranium-235	4.21	0.53	0.60	2.49	2.52	0.21
15	3	Uranium-238	96.7	4.40	3.49	11.94	12.89	1.21

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Table D.39. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
15	3	**Totals**		**9.31**	**5.46**	**19.44**	**21.91**	**1.83**
15	4	Neptunium-237	0.8	0.43	0.21	0.80	0.92	0.07
15	4	Uranium-234	10.7	0.27	0.04	0.11	0.22	0.01
15	4	Uranium-235	0.43	0.05	0.06	0.25	0.26	0.02
15	4	Uranium-238	18.7	0.85	0.68	2.31	2.49	0.23
15	4	**Totals**		**1.61**	**0.98**	**3.47**	**3.89**	**0.33**
15	5	Neptunium-237	0.69	0.38	0.18	0.69	0.80	0.06
15	5	Technetium-99	107	0.02	0.00	0.02	0.02	0.00
15	5	Uranium-234	5.83	0.15	0.02	0.06	0.12	0.00
15	5	Uranium-235	0.46	0.06	0.07	0.27	0.28	0.02
15	5	Uranium-238	10.3	0.47	0.37	1.27	1.37	0.13
15	5	**Totals**		**1.06**	**0.64**	**2.31**	**2.58**	**0.22**
15	6	Neptunium-237	0.64	0.35	0.16	0.64	0.74	0.05
15	6	Uranium-234	8.74	0.22	0.03	0.09	0.18	0.01
15	6	Uranium-235	0.57	0.07	0.08	0.34	0.34	0.03
15	6	Uranium-238	15.4	0.70	0.56	1.90	2.05	0.19
15	6	**Totals**		**1.34**	**0.83**	**2.97**	**3.31**	**0.28**
15	7	Neptunium-237	0.223	0.12	0.06	0.22	0.26	0.02
15	7	Uranium-234	6.49	0.16	0.02	0.07	0.13	0.01
15	7	Uranium-235	0.45	0.06	0.06	0.27	0.27	0.02
15	7	Uranium-238	8.05	0.37	0.29	0.99	1.07	0.10
15	7	**Totals**		**0.71**	**0.44**	**1.55**	**1.73**	**0.15**
15	8	Neptunium-237	0.365	0.20	0.09	0.37	0.42	0.03
15	8	Uranium-235	0.304	0.04	0.04	0.18	0.18	0.01
15	8	Uranium-238	6.64	0.30	0.24	0.82	0.89	0.08
15	8	**Totals**		**0.54**	**0.38**	**1.36**	**1.49**	**0.13**
15	9	Neptunium-237	0.128	0.07	0.03	0.13	0.15	0.01
15	9	Uranium-235	0.242	0.03	0.03	0.14	0.14	0.01
15	9	Uranium-238	7.12	0.32	0.26	0.88	0.95	0.09
15	9	**Totals**		**0.42**	**0.32**	**1.15**	**1.24**	**0.11**
16	1	Cesium-137	1.1	0.51	0.69	2.88	2.88	0.24
16	1	**Totals**		**0.51**	**0.69**	**2.88**	**2.88**	**0.24**
16	4	Cesium-137	36.58	17.01	22.86	95.76	95.76	7.99
16	4	Cobalt-60	0.00853	0.02	0.03	0.11	0.11	0.01
16	4	Neptunium-237	7.12	3.87	1.83	7.12	8.22	0.59
16	4	Technetium-99	295.7	0.04	0.01	0.04	0.06	0.00
16	4	Thorium-230	5.29	0.26	0.04	0.11	0.21	0.01
16	4	Uranium-234	119	3.00	0.43	1.22	2.40	0.10

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Table D.39. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
16	4	Uranium-235	8.23	1.04	1.17	4.87	4.93	0.41
16	4	Uranium-238	270	12.27	9.75	33.33	36.00	3.38
16	4	**Totals**		**37.51**	**36.11**	**142.56**	**147.68**	**12.48**
518	1	Uranium-235	0.0674	0.01	0.01	0.04	0.04	0.00
518	1	Uranium-238	1.514	0.07	0.05	0.19	0.20	0.02
518	1	**Totals**		**0.08**	**0.06**	**0.23**	**0.24**	**0.02**
520	1	Cesium-137	0.962	0.45	0.60	2.52	2.52	0.21
520	1	Neptunium-237	0.656	0.36	0.17	0.66	0.76	0.05
520	1	Thorium-230	11.34	0.55	0.08	0.23	0.45	0.02
520	1	Uranium-235	0.126	0.02	0.02	0.07	0.08	0.01
520	1	Uranium-238	3.929	0.18	0.14	0.49	0.52	0.05
520	1	**Totals**		**1.55**	**1.01**	**3.96**	**4.32**	**0.34**
520	2	Neptunium-237	0.0748	0.04	0.02	0.07	0.09	0.01
520	2	Uranium-238	1.778	0.08	0.06	0.22	0.24	0.02
520	2	**Totals**		**0.12**	**0.08**	**0.29**	**0.32**	**0.03**
520	3	Uranium-238	1.57	0.07	0.06	0.19	0.21	0.02
520	3	**Totals**		**0.07**	**0.06**	**0.19**	**0.21**	**0.02**
520	4	Neptunium-237	0.74	0.40	0.19	0.74	0.85	0.06
520	4	Uranium-235	0.242	0.03	0.03	0.14	0.14	0.01
520	4	Uranium-238	6.26	0.28	0.23	0.77	0.83	0.08
520	4	**Totals**		**0.72**	**0.45**	**1.66**	**1.83**	**0.15**
520	5	Neptunium-237	0.155	0.08	0.04	0.16	0.18	0.01
520	5	Uranium-238	1.45	0.07	0.05	0.18	0.19	0.02
520	5	**Totals**		**0.15**	**0.09**	**0.33**	**0.37**	**0.03**
74	1	Uranium-234	7.55	0.19	0.03	0.08	0.15	0.01
74	1	Uranium-238	38.5	1.75	1.39	4.75	5.13	0.48
74	1	**Totals**		**1.94**	**1.42**	**4.83**	**5.29**	**0.49**
78	1	Cobalt-60	0.00591	0.01	0.02	0.07	0.07	0.01
78	1	Uranium-235	0.264	0.03	0.04	0.16	0.16	0.01
78	1	Uranium-238	5.29	0.24	0.19	0.65	0.71	0.07
78	1	**Totals**		**0.29**	**0.25**	**0.88**	**0.94**	**0.09**
80	1	Americium-241	6.4	2.11	0.34	1.03	1.84	0.09
80	1	Neptunium-237	0.505	0.27	0.13	0.51	0.58	0.04
80	1	Thorium-230	4.4	0.21	0.03	0.09	0.17	0.01
80	1	Uranium-234	229	5.77	0.83	2.35	4.62	0.20
80	1	Uranium-235	30	3.78	4.25	17.75	17.96	1.48
80	1	Uranium-238	1921	87.32	69.35	237.16	256.13	24.01
80	1	**Totals**		**99.46**	**74.94**	**258.88**	**281.32**	**25.82**

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Table D.39. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
81	1	Uranium-238	2.285	0.10	0.08	0.28	0.30	0.03
81	1	**Totals**		**0.10**	**0.08**	**0.28**	**0.30**	**0.03**
154	1	Uranium-238	3.06	0.14	0.11	0.38	0.41	0.04
154	1	**Totals**		**0.14**	**0.11**	**0.38**	**0.41**	**0.04**
155	1	Neptunium-237	0.103	0.06	0.03	0.10	0.12	0.01
155	1	**Totals**		**0.06**	**0.03**	**0.10**	**0.12**	**0.01**
156	1	Uranium-238	2.19	0.10	0.08	0.27	0.29	0.03
156	1	**Totals**		**0.10**	**0.08**	**0.27**	**0.29**	**0.03**
219	1	Neptunium-237	0.331	0.18	0.08	0.33	0.38	0.03
219	1	Uranium-235	0.192	0.02	0.03	0.11	0.11	0.01
219	1	Uranium-238	4.4	0.20	0.16	0.54	0.59	0.06
219	1	**Totals**		**0.40**	**0.27**	**0.99**	**1.08**	**0.09**
488	1	Cesium-137	0.52	0.24	0.33	1.36	1.36	0.11
488	1	Uranium-235	0.149	0.02	0.02	0.09	0.09	0.01
488	1	Uranium-238	4.54	0.21	0.16	0.56	0.61	0.06
488	1	**Totals**		**0.47**	**0.51**	**2.01**	**2.06**	**0.18**

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.40. Subsurface Soil Dose Assessment

SWMU	EU	COPC	EPC (pCi/g)	Excavation Worker/Outdoor Worker Dose (mrem/yr)
1	1	Cesium-137	5.91E-01	0.27
1	1	Neptunium-237	4.02E-01	0.22
1	1	Plutonium-239/240	6.14E+00	1.93
1	1	Thorium-230	4.40E+01	2.15
1	1	Uranium-235	1.06E-01	0.01
1	1	Uranium-238	1.97E+00	0.09
1	1	**Totals**		**4.67**
1	3	Uranium-238	1.73E+00	0.08
1	3	**Totals**		**0.08**
1	4	Cesium-137	3.37E-01	0.16
1	4	Cobalt-60	2.20E-02	0.05
1	4	Thorium-230	5.03E+00	0.25
1	4	**Totals**		**0.45**
99	1	Cobalt-60	1.19E-02	0.03
99	1	Uranium-238	9.45E-01	0.04
99	1	**Totals**		**0.07**
194	2	Uranium-238	1.24E+00	0.06
194	2	**Totals**		**0.06**
194	3	Cesium-137	2.35E-01	0.11
194	3	Uranium-238	1.16E+00	0.05
194	3	**Totals**		**0.16**
194	4	Cesium-137	1.44E-01	0.07
194	4	Uranium-238	1.02E+00	0.05
194	4	**Totals**		**0.11**
194	5	Uranium-238	1.11E+00	0.05
194	5	**Totals**		**0.05**
194	6	Uranium-238	1.12E+00	0.05
194	6	**Totals**		**0.05**
194	8	Cesium-137	2.78E-01	0.13
194	8	Uranium-238	1.18E+00	0.05
194	8	**Totals**		**0.18**
194	10	Cesium-137	5.81E-01	0.27
194	10	Uranium-238	1.49E+00	0.07
194	10	**Totals**		**0.34**
194	17	Cesium-137	2.53E-01	0.12
194	17	**Totals**		**0.12**
194	22	Cesium-137	1.62E-01	0.08
194	22	**Totals**		**0.08**
194	23	Cesium-137	2.83E-01	0.13
194	23	**Totals**		**0.13**
194	24	Cesium-137	2.13E-01	0.10
194	24	**Totals**		**0.10**
194	31	Cesium-137	5.70E-01	0.27
194	31	Uranium-238	1.72E+00	0.08
194	31	**Totals**		**0.34**

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COPC = chemical of potential concern
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Table D.40. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Excavation Worker/Outdoor Worker Dose (mrem/yr)
196	1	Neptunium-237	3.11E-01	0.17
196	1	Uranium-238	1.54E+00	0.07
196	1	**Totals**		**0.24**
196	2	Uranium-238	2.21E+00	0.10
196	2	**Totals**		**0.10**
211	1	Neptunium-237	1.56E-01	0.08
211	1	Uranium-234	8.06E+00	0.20
211	1	Uranium-235	5.80E-01	0.07
211	1	Uranium-238	1.59E+01	0.72
211	1	**Totals**		**1.08**
489	1	Uranium-238	1.47E+00	0.07
489	1	**Totals**		**0.07**
531	1	Uranium-235	1.38E-01	0.02
531	1	Uranium-238	3.48E+00	0.16
531	1	**Totals**		**0.18**
47	1	Neptunium-237	1.46E-01	0.08
47	1	Plutonium-239/240	4.19E+00	1.32
47	1	Thorium-230	5.45E+01	2.66
47	1	Uranium-234	8.10E+00	0.20
47	1	Uranium-235	5.00E-01	0.06
47	1	Uranium-238	8.21E+00	0.37
47	1	**Totals**		**4.70**
200	1	Cesium-137	4.68E-01	0.22
200	1	Uranium-235	1.14E-01	0.01
200	1	Uranium-238	2.79E+00	0.13
200	1	**Totals**		**0.36**
212	1	Cesium-137	6.01E-01	0.28
212	1	Cobalt-60	8.76E-03	0.02
212	1	Neptunium-237	4.00E+00	2.17
212	1	Plutonium-239/240	6.71E+00	2.11
212	1	Thorium-230	2.60E+02	12.68
212	1	Uranium-235	2.09E-01	0.03
212	1	Uranium-238	3.17E+00	0.14
212	1	**Totals**		**17.44**
213	1	Uranium-238	2.33E+00	0.11
213	1	**Totals**		**0.11**
216	1	Cesium-137	4.10E-01	0.19
216	1	Uranium-238	1.33E+00	0.06
216	1	**Totals**		**0.25**
217	1	Uranium-238	1.09E+00	0.05
217	1	**Totals**		**0.05**
221	1	Uranium-238	1.93E+00	0.09
221	1	**Totals**		**0.09**
222	1	Cesium-137	2.99E-01	0.14
222	1	Cobalt-60	6.54E-03	0.01

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Table D.40. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Excavation Worker/Outdoor Worker Dose (mrem/yr)
222	1	Uranium-234	7.04E+00	0.18
222	1	Uranium-235	7.10E-01	0.09
222	1	Uranium-238	1.54E+01	0.70
222	1	**Totals**		**1.12**
224	1	Cesium-137	3.70E-01	0.17
224	1	Uranium-235	2.50E-01	0.03
224	1	Uranium-238	2.64E+01	1.20
224	1	**Totals**		**1.40**
225	1	Cesium-137	4.17E-01	0.19
225	1	Uranium-238	2.04E+00	0.09
225	1	**Totals**		**0.29**
226	1	Americium-241	1.43E+00	0.47
226	1	Cesium-137	2.33E+00	1.08
226	1	Cobalt-60	3.14E-03	0.01
226	1	Neptunium-237	1.41E+02	76.79
226	1	Plutonium-238	1.88E+00	0.53
226	1	Plutonium-239/240	5.75E+00	1.81
226	1	Technetium-99	4.41E+01	0.01
226	1	Thorium-230	4.21E+01	2.05
226	1	Uranium-234	2.44E+01	0.61
226	1	Uranium-235	1.26E+00	0.16
226	1	Uranium-238	2.48E+01	1.13
226	1	**Totals**		**84.65**
227	1	Cesium-137	1.67E-01	0.08
227	1	Cobalt-60	1.53E-02	0.03
227	1	Neptunium-237	7.95E-01	0.43
227	1	Technetium-99	4.18E+01	0.01
227	1	Uranium-234	1.40E+01	0.35
227	1	Uranium-235	1.35E+00	0.17
227	1	Uranium-238	4.18E+01	1.90
227	1	**Totals**		**2.97**
227	2	Cobalt-60	1.37E-02	0.03
227	2	Neptunium-237	3.83E-02	0.02
227	2	Uranium-238	1.57E+00	0.07
227	2	**Totals**		**0.12**
228	1	Cobalt-60	1.29E-02	0.03
228	1	Neptunium-237	8.00E-01	0.43
228	1	Uranium-235	1.78E-01	0.02
228	1	Uranium-238	3.77E+00	0.17
228	1	**Totals**		**0.66**
229	1	Uranium-238	2.86E+00	0.13
229	1	**Totals**		**0.13**
229	2	Cesium-137	3.21E-01	0.15
229	2	Neptunium-237	2.87E-01	0.16
229	2	Uranium-234	1.22E+01	0.31

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Table D.40. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Excavation Worker/Outdoor Worker Dose (mrem/yr)
229	2	Uranium-235	8.40E-01	0.11
229	2	Uranium-238	2.49E+01	1.13
229	2	**Totals**		**1.85**
26	1	Cesium-137	1.76E+00	0.82
26	1	Cobalt-60	3.99E-03	0.01
26	1	Neptunium-237	2.50E-01	0.14
26	1	Plutonium-239/240	3.50E+00	1.10
26	1	Thorium-230	4.03E+00	0.20
26	1	Uranium-234	4.29E+00	0.11
26	1	Uranium-235	5.84E-01	0.07
26	1	Uranium-238	3.14E+01	1.43
26	1	**Totals**		**3.87**
26	2	Cesium-137	4.86E+00	2.26
26	2	Neptunium-237	8.30E-01	0.45
26	2	Thorium-230	1.27E+01	0.62
26	2	Uranium-234	1.57E+01	0.40
26	2	Uranium-235	1.41E+00	0.18
26	2	Uranium-238	4.22E+01	1.92
26	2	**Totals**		**5.82**
26	3	Cesium-137	6.01E-01	0.28
26	3	Neptunium-237	7.30E-01	0.40
26	3	Technetium-99	8.75E+01	0.01
26	3	Thorium-230	9.57E+00	0.47
26	3	Uranium-234	4.05E+01	1.02
26	3	Uranium-235	1.48E+00	0.19
26	3	Uranium-238	4.53E+01	2.06
26	3	**Totals**		**4.42**
26	4	Americium-241	1.17E+00	0.39
26	4	Cesium-137	5.73E-01	0.27
26	4	Cobalt-60	3.09E-03	0.01
26	4	Neptunium-237	1.20E+01	6.52
26	4	Plutonium-239/240	4.40E+00	1.38
26	4	Technetium-99	4.65E+02	0.07
26	4	Thorium-230	2.84E+01	1.38
26	4	Uranium-234	1.13E+02	2.84
26	4	Uranium-235	7.85E+00	0.99
26	4	Uranium-238	3.27E+02	14.87
26	4	**Totals**		**28.71**
27	1	Cobalt-60	1.01E-02	0.02
27	1	**Totals**		**0.02**
76	1	Uranium-238	1.45E+00	0.07
76	1	**Totals**		**0.07**
165	1	Cesium-137	3.47E+00	1.61
165	1	Neptunium-237	4.26E-01	0.23
165	1	Plutonium-239/240	2.81E+00	0.88

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Table D.40. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Excavation Worker/Outdoor Worker Dose (mrem/yr)
165	1	Thorium-230	6.02E+00	0.29
165	1	Uranium-234	5.76E+01	1.45
165	1	Uranium-235	2.06E+00	0.26
165	1	Uranium-238	6.42E+01	2.92
165	1	**Totals**		**7.65**
170	1	Cesium-137	3.35E-01	0.16
170	1	Cobalt-60	9.50E-03	0.02
170	1	Neptunium-237	1.15E-01	0.06
170	1	Uranium-238	2.55E+00	0.12
170	1	**Totals**		**0.36**
158	1	Neptunium-237	5.96E-02	0.03
158	1	Uranium-235	1.40E-01	0.02
158	1	Uranium-238	3.16E+00	0.14
158	1	**Totals**		**0.19**
169	1	Cobalt-60	7.40E-03	0.02
169	1	Uranium-234	6.55E+00	0.16
169	1	Uranium-235	4.60E-01	0.06
169	1	Uranium-238	8.12E+00	0.37
169	1	**Totals**		**0.61**
19	1	Uranium-234	2.77E+01	0.70
19	1	Uranium-235	1.30E+00	0.16
19	1	Uranium-238	3.06E+01	1.39
19	1	**Totals**		**2.25**
195	1	Cesium-137	3.70E-01	0.17
195	1	**Totals**		**0.17**
195	5	Cesium-137	3.41E-01	0.16
195	5	**Totals**		**0.16**
195	6	Cesium-137	2.26E-01	0.11
195	6	**Totals**		**0.11**
195	8	Cesium-137	2.44E-01	0.11
195	8	**Totals**		**0.11**
195	11	Cesium-137	2.13E-01	0.10
195	11	**Totals**		**0.10**
195	15	Cesium-137	2.61E-01	0.12
195	15	**Totals**		**0.12**
195	16	Cesium-137	2.94E-01	0.14
195	16	**Totals**		**0.14**
195	17	Uranium-235	9.72E-02	0.01
195	17	Uranium-238	1.75E+00	0.08
195	17	**Totals**		**0.09**
204	1	Uranium-235	1.80E-01	0.02
204	1	Uranium-238	5.20E+00	0.24
204	1	**Totals**		**0.26**
204	3	Uranium-238	2.50E+00	0.11
204	3	**Totals**		**0.11**

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Table D.40. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Excavation Worker/Outdoor Worker Dose (mrem/yr)
204	4	Uranium-235	1.88E-01	0.02
204	4	Uranium-238	9.72E+00	0.44
204	4	**Totals**		**0.47**
204	18	Cesium-137	6.30E-01	0.29
204	18	Uranium-235	1.25E-01	0.02
204	18	Uranium-238	5.37E+00	0.24
204	18	**Totals**		**0.55**
204	23	Americium-241	3.71E+00	1.22
204	23	Cesium-137	1.17E+00	0.55
204	23	Cobalt-60	1.23E-02	0.03
204	23	Uranium-234	4.45E+02	11.21
204	23	Uranium-235	5.70E+01	7.19
204	23	Uranium-238	4.39E+03	199.36
204	23	**Totals**		**219.55**
486	1	Cesium-137	1.71E+00	0.80
486	1	**Totals**		**0.80**
487	1	Cesium-137	1.38E+00	0.64
487	1	**Totals**		**0.64**
492	1	Cesium-137	3.46E-01	0.16
492	1	Cobalt-60	9.63E-03	0.02
492	1	Neptunium-237	2.09E-01	0.11
492	1	Uranium-234	5.39E+01	1.36
492	1	Uranium-235	5.72E+00	0.72
492	1	Uranium-238	3.83E+02	17.41
492	1	**Totals**		**19.78**
493	1	Cesium-137	2.92E-01	0.14
493	1	Cobalt-60	1.36E-02	0.03
493	1	Neptunium-237	1.22E-01	0.07
493	1	Uranium-235	1.65E-01	0.02
493	1	Uranium-238	5.50E+00	0.25
493	1	**Totals**		**0.50**
517	1	Cobalt-60	6.39E-03	0.01
517	1	Neptunium-237	1.07E+00	0.58
517	1	Uranium-235	1.60E-01	0.02
517	1	Uranium-238	3.89E+00	0.18
517	1	**Totals**		**0.79**
541	1	Americium-241	7.53E+00	2.48
541	1	Cesium-137	9.72E-01	0.45
541	1	Cobalt-60	1.01E-02	0.02
541	1	Neptunium-237	5.69E-02	0.03
541	1	Uranium-234	1.44E+02	3.63
541	1	Uranium-235	2.26E+01	2.84
541	1	Uranium-238	1.11E+03	50.50
541	1	**Totals**		**59.96**
561	1	Cesium-137	2.53E-01	0.12

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Table D.40. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Excavation Worker/Outdoor Worker Dose (mrem/yr)
561	1	Cobalt-60	6.98E-02	0.15
561	1	Neptunium-237	2.61E-02	0.01
561	1	Uranium-234	8.48E+00	0.21
561	1	Uranium-235	1.43E+00	0.18
561	1	Uranium-238	1.12E+02	5.08
561	1	**Totals**		**5.76**
561	2	Cesium-137	4.02E-01	0.19
561	2	Cobalt-60	3.02E-02	0.07
561	2	Neptunium-237	4.76E-02	0.03
561	2	Uranium-234	3.92E+01	0.99
561	2	Uranium-235	6.79E+00	0.86
561	2	Uranium-238	3.86E+02	17.55
561	2	**Totals**		**19.67**
562	1	Cesium-137	4.52E-01	0.21
562	1	Uranium-235	5.91E-01	0.07
562	1	Uranium-238	4.42E+01	2.01
562	1	**Totals**		**2.29**
562	2	Cesium-137	3.58E-01	0.17
562	2	Uranium-234	5.34E+01	1.35
562	2	Uranium-235	8.96E+00	1.13
562	2	Uranium-238	5.81E+02	26.41
562	2	**Totals**		**29.05**
562	3	Uranium-235	1.63E-01	0.02
562	3	Uranium-238	1.09E+01	0.50
562	3	**Totals**		**0.52**
562	4	Cesium-137	4.91E-01	0.23
562	4	Uranium-238	2.42E+00	0.11
562	4	**Totals**		**0.34**
562	5	Cesium-137	3.80E-01	0.18
562	5	Uranium-234	8.57E+00	0.22
562	5	Uranium-235	9.50E-01	0.12
562	5	Uranium-238	6.24E+01	2.84
562	5	**Totals**		**3.35**
563	1	Cesium-137	2.88E-01	0.13
563	1	Neptunium-237	1.20E-01	0.07
563	1	Uranium-238	2.96E+00	0.13
563	1	**Totals**		**0.33**
563	2	Cesium-137	6.47E-01	0.30
563	2	Uranium-238	1.49E+00	0.07
563	2	**Totals**		**0.37**
564	1	Cesium-137	6.20E-01	0.29
564	1	Thorium-230	5.01E+00	0.24
564	1	Uranium-234	6.93E+00	0.17
564	1	Uranium-235	3.87E-01	0.05
564	1	Uranium-238	8.54E+00	0.39

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Table D.40. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Excavation Worker/Outdoor Worker Dose (mrem/yr)
564	1	**Totals**		**1.14**
565	1	Cesium-137	4.00E-01	0.19
565	1	**Totals**		**0.19**
567	3	Uranium-238	1.72E+00	0.08
567	3	**Totals**		**0.08**
567	4	Uranium-238	1.08E+00	0.05
567	4	**Totals**		**0.05**
12	1	Cobalt-60	1.58E-02	0.03
12	1	Uranium-234	9.11E+00	0.23
12	1	Uranium-235	1.01E+00	0.13
12	1	Uranium-238	4.28E+01	1.95
12	1	**Totals**		**2.34**
13	1	Cobalt-60	4.47E-03	0.01
13	1	Uranium-238	1.40E+00	0.06
13	1	**Totals**		**0.07**
13	2	Cobalt-60	3.24E-03	0.01
13	2	**Totals**		**0.01**
13	3	Cobalt-60	1.95E-02	0.04
13	3	**Totals**		**0.04**
13	4	Cobalt-60	8.06E-02	0.18
13	4	Neptunium-237	1.24E-01	0.07
13	4	Uranium-235	1.05E-01	0.01
13	4	Uranium-238	3.14E+00	0.14
13	4	**Totals**		**0.40**
13	5	Cesium-137	3.97E-01	0.18
13	5	Cobalt-60	5.74E-03	0.01
13	5	Neptunium-237	7.52E-02	0.04
13	5	Uranium-238	2.21E+00	0.10
13	5	**Totals**		**0.34**
13	6	Cesium-137	2.33E-01	0.11
13	6	Cobalt-60	8.48E-03	0.02
13	6	Neptunium-237	6.52E-02	0.04
13	6	Uranium-238	3.63E+00	0.17
13	6	**Totals**		**0.33**
13	7	Uranium-238	4.82E+00	0.22
13	7	**Totals**		**0.22**
13	9	Cesium-137	3.04E-01	0.14
13	9	Neptunium-237	6.84E-01	0.37
13	9	Uranium-235	2.22E-01	0.03
13	9	Uranium-238	4.75E+00	0.22
13	9	**Totals**		**0.76**
13	10	Cobalt-60	1.49E-02	0.03
13	10	**Totals**		**0.03**
13	11	Cobalt-60	1.30E-02	0.03
13	11	**Totals**		**0.03**

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.40. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Excavation Worker/Outdoor Worker Dose (mrem/yr)
13	13	Cobalt-60	2.04E-02	0.04
13	13	**Totals**		**0.04**
13	14	Uranium-235	2.03E-01	0.03
13	14	Uranium-238	4.46E+00	0.20
13	14	**Totals**		**0.23**
14	1	Americium-241	1.06E+00	0.35
14	1	Cobalt-60	2.42E-02	0.05
14	1	Neptunium-237	2.64E-01	0.14
14	1	Technetium-99	4.06E+02	0.06
14	1	Uranium-235	1.99E-01	0.03
14	1	Uranium-238	6.24E+00	0.28
14	1	**Totals**		**0.91**
14	2	Neptunium-237	1.70E+00	0.92
14	2	Thorium-230	7.70E+00	0.38
14	2	Uranium-234	4.81E+01	1.21
14	2	Uranium-235	3.41E+00	0.43
14	2	Uranium-238	8.96E+01	4.07
14	2	**Totals**		**7.01**
14	3	Neptunium-237	1.61E-01	0.09
14	3	Uranium-234	4.43E+00	0.11
14	3	Uranium-235	2.46E-01	0.03
14	3	Uranium-238	1.08E+01	0.49
14	3	**Totals**		**0.72**
14	4	Neptunium-237	2.03E+00	1.10
14	4	Thorium-230	5.43E+00	0.26
14	4	Uranium-234	8.61E+01	2.17
14	4	Uranium-235	6.10E+00	0.77
14	4	Uranium-238	1.29E+02	5.84
14	4	**Totals**		**10.15**
14	5	Neptunium-237	1.74E+00	0.95
14	5	Technetium-99	7.80E+01	0.01
14	5	Thorium-230	1.09E+01	0.53
14	5	Uranium-234	4.03E+01	1.01
14	5	Uranium-235	2.57E+00	0.32
14	5	Uranium-238	7.26E+01	3.30
14	5	**Totals**		**6.13**
14	6	Neptunium-237	2.04E+00	1.11
14	6	Uranium-234	2.59E+01	0.65
14	6	Uranium-235	1.79E+00	0.23
14	6	Uranium-238	4.11E+01	1.87
14	6	**Totals**		**3.85**
14	7	Neptunium-237	1.16E+00	0.63
14	7	Uranium-234	9.86E+00	0.25
14	7	Uranium-235	7.29E-01	0.09
14	7	Uranium-238	1.60E+01	0.73

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.40. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Excavation Worker/Outdoor Worker Dose (mrem/yr)
14	7	**Totals**		**1.70**
14	8	Neptunium-237	6.77E-01	0.37
14	8	Uranium-235	1.61E-01	0.02
14	8	Uranium-238	3.97E+00	0.18
14	8	**Totals**		**0.57**
14	9	Cesium-137	4.53E-01	0.21
14	9	Neptunium-237	1.09E+01	5.94
14	9	Technetium-99	1.96E+02	0.03
14	9	Uranium-234	8.32E+02	20.96
14	9	Uranium-235	5.46E+01	6.88
14	9	Uranium-238	1.20E+03	54.55
14	9	**Totals**		**88.56**
14	10	Neptunium-237	2.05E+00	1.11
14	10	Uranium-234	1.92E+01	0.48
14	10	Uranium-235	1.40E+00	0.18
14	10	Uranium-238	2.68E+01	1.22
14	10	**Totals**		**2.99**
15	1	Technetium-99	1.06E+02	0.02
15	1	Uranium-238	1.30E+00	0.06
15	1	**Totals**		**0.07**
15	2	Neptunium-237	5.56E-01	0.30
15	2	Uranium-234	6.51E+00	0.16
15	2	Uranium-235	3.80E-01	0.05
15	2	Uranium-238	1.21E+01	0.55
15	2	**Totals**		**1.06**
15	3	Neptunium-237	4.06E+00	2.21
15	3	Technetium-99	2.08E+02	0.03
15	3	Thorium-230	4.61E+00	0.22
15	3	Uranium-234	6.91E+01	1.74
15	3	Uranium-235	4.21E+00	0.53
15	3	Uranium-238	9.57E+01	4.35
15	3	**Totals**		**9.08**
15	4	Neptunium-237	4.31E-01	0.23
15	4	Uranium-234	6.26E+00	0.16
15	4	Uranium-235	2.22E-01	0.03
15	4	Uranium-238	1.06E+01	0.48
15	4	**Totals**		**0.90**
15	5	Neptunium-237	5.30E-01	0.29
15	5	Technetium-99	1.07E+02	0.02
15	5	Uranium-234	3.90E+00	0.10
15	5	Uranium-235	3.62E-01	0.05
15	5	Uranium-238	8.14E+00	0.37
15	5	**Totals**		**0.82**
15	6	Neptunium-237	4.93E-01	0.27
15	6	Uranium-234	6.91E+00	0.17

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.40. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Excavation Worker/Outdoor Worker Dose (mrem/yr)
15	6	Uranium-235	4.48E-01	0.06
15	6	Uranium-238	1.21E+01	0.55
15	6	**Totals**		**1.05**
15	7	Neptunium-237	1.71E-01	0.09
15	7	Uranium-234	4.27E+00	0.11
15	7	Uranium-235	2.96E-01	0.04
15	7	Uranium-238	6.39E+00	0.29
15	7	**Totals**		**0.53**
15	8	Neptunium-237	2.83E-01	0.15
15	8	Uranium-235	2.02E-01	0.03
15	8	Uranium-238	4.52E+00	0.21
15	8	**Totals**		**0.38**
15	9	Neptunium-237	9.93E-02	0.05
15	9	Uranium-235	1.63E-01	0.02
15	9	Uranium-238	4.68E+00	0.21
15	9	**Totals**		**0.29**
16	1	Cesium-137	1.10E+00	0.51
16	1	**Totals**		**0.51**
16	4	Cesium-137	3.66E+01	17.01
16	4	Cobalt-60	8.53E-03	0.02
16	4	Neptunium-237	7.12E+00	3.87
16	4	Technetium-99	3.55E+02	0.05
16	4	Thorium-230	5.29E+00	0.26
16	4	Uranium-234	1.19E+02	3.00
16	4	Uranium-235	8.23E+00	1.04
16	4	Uranium-238	2.70E+02	12.27
16	4	**Totals**		**37.52**
518	1	Uranium-235	6.74E-02	0.01
518	1	Uranium-238	1.51E+00	0.07
518	1	**Totals**		**0.08**
520	1	Cesium-137	8.53E-01	0.40
520	1	Neptunium-237	5.37E-01	0.29
520	1	Thorium-230	1.02E+01	0.50
520	1	Uranium-235	1.21E-01	0.02
520	1	Uranium-238	3.69E+00	0.17
520	1	**Totals**		**1.37**
520	2	Neptunium-237	5.90E-02	0.03
520	2	Uranium-238	1.58E+00	0.07
520	2	**Totals**		**0.10**
520	3	Uranium-238	1.34E+00	0.06
520	3	**Totals**		**0.06**
520	4	Neptunium-237	7.40E-01	0.40
520	4	Uranium-235	2.42E-01	0.03
520	4	Uranium-238	6.26E+00	0.28
520	4	**Totals**		**0.72**

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.40. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Excavation Worker/Outdoor Worker Dose (mrem/yr)
520	5	Neptunium-237	1.55E-01	0.08
520	5	Uranium-238	1.45E+00	0.07
520	5	**Totals**		**0.15**
74	1	Cesium-137	4.80E-01	0.22
74	1	Uranium-234	7.55E+00	0.19
74	1	Uranium-238	3.85E+01	1.75
74	1	**Totals**		**2.16**
78	1	Cobalt-60	5.91E-03	0.01
78	1	Uranium-235	2.64E-01	0.03
78	1	Uranium-238	5.29E+00	0.24
78	1	**Totals**		**0.29**
80	1	Americium-241	6.40E+00	2.11
80	1	Neptunium-237	5.05E-01	0.27
80	1	Thorium-230	4.40E+00	0.21
80	1	Uranium-234	2.29E+02	5.77
80	1	Uranium-235	3.00E+01	3.78
80	1	Uranium-238	1.92E+03	87.32
80	1	**Totals**		**99.46**
81	1	Uranium-238	2.29E+00	0.10
81	1	**Totals**		**0.10**
154	1	Uranium-238	3.06E+00	0.14
154	1	**Totals**		**0.14**
155	1	Neptunium-237	1.03E-01	0.06
155	1	**Totals**		**0.06**
156	1	Uranium-238	2.19E+00	0.10
156	1	**Totals**		**0.10**
219	1	Neptunium-237	3.31E-01	0.18
219	1	Uranium-235	1.92E-01	0.02
219	1	Uranium-238	4.40E+00	0.20
219	1	**Totals**		**0.40**
488	1	Cesium-137	5.20E-01	0.24
488	1	Uranium-235	1.49E-01	0.02
488	1	Uranium-238	4.54E+00	0.21
488	1	**Totals**		**0.47**

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration

Table D.41. Summary of Risks for the Soils OU SWMUs/AOCs

	Direct Contact*			Child Resident Groundwater Use		Child Resident Vapor Intrusion	
SWMU	Total HI	Total ELCR	Total Dose (mrem)	Total HI	Total ELCR	Total HI	Total ELCR
Former Facilities							
1	***1.37***	***4.30E-05***	**1.1**				
99	***1.10***	**2.66E-06**					
194	***22.42***	**7.92E-05**	0.3				
196	<0.1	**1.25E-06**					
211	<0.1	<1E-6	0.3				
483	<0.1	<1E-6					
531	<0.1	**2.96E-06**					
Storage Areas							
47	<0.1	**5.76E-05**	0.9	<0.1	<1E-6	***6.84***	***2.15E-03***
200	<0.1	**1.42E-06**	0.5				
212	<0.1	**6.64E-06**	**3.7**				
213	<0.1	<1E-6					
214	<0.1	<1E-6					
215	<0.1	<1E-6					
216	<0.1	<1E-6					
217	<0.1	<1E-6					
221	<0.1	**1.31E-06**					
222	<0.1	**1.45E-06**	0.8				
224	<0.1	***1.86E-04***	1.0				
225	<0.1	<1E-6					
226	**0.11**	**3.67E-05**	***44.7***				
227	<0.1	**4.17E-06**	**2.4**				
228	<0.1	<1E-6	0.4				
229	<0.1	**7.04E-06**	**1.1**				
Underground/Tanks							
26	**1.46**	**4.82E-05**	**19.7**				
76	<0.1	**1.79E-06**					
165	<0.1	**1.56E-05**	**5.3**				
170	n/a	<1E-6					
Chromium Areas							
158	<0.1	**1.18E-06**	0.2				
169	**0.15**	**1.24E-05**	0.4				
176	<0.1	**2.81E-06**	0.1				
Soil/Rubble Piles							
19	<0.1	**9.36E-06**					
138	***1.80***	**3.56E-05**					
180	***26.57***	***1.22E-04***					
181	**0.23**	**1.27E-06**					
195	***43.92***	**7.66E-05**	0.1				
204	***40.89***	***4.60E-03***	***219.6***				
486			**0.8**				
487			**0.6**				
492	***26.73***	***1.29E-03***	***19.62***				
493	***23.12***	**7.67E-05**	0.4				
517	**0.34**	**5.41E-05**	0.8				
541	***27.69***	***1.44E-03***	***54.3***				

Table D.41. Summary of Risks for the Soils OU SWMUs/AOCs (Continued)

	Direct Contact*			Child Resident Groundwater Use		Child Resident Vapor Intrusion	
SWMU	Total HI	Total ELCR	Total Dose (mrem)	Total HI	Total ELCR	Total HI	Total ELCR
561	***21.62***	***5.61E-04***	***20.4***				
562	**0.37**	***5.44E-04***	***28.9***				
563	<0.1	**1.45E-05**	0.4				
564	***44.48***	***2.59E-04***	**1.1**				
567	<0.1	**1.29E-06**					
Scrapyards							
12	***1.17***	**3.05E-05**	**2.7**	<0.1	**2.43E-05**	***11.70***	***1.00E-02***
13	<0.1	<1E-6	0.5				
14	**0.26**	**5.57E-05**	***57.2***				
15	**0.34**	**1.33E-05**	**5.5**				
16	<0.1	**3.86E-05**	***36.1***				
518	<0.1	**4.66E-06**					
520	**0.12**	**2.81E-06**	**1.0**				
PCB Areas							
74	n/a	**5.17E-06**	**1.4**				
75	<0.1	<1E-6					
78	<0.1	**4.13E-05**	0.2				
56/80	**0.31**	**7.63E-05**	***74.9***				
57/81	**0.41**	**5.20E-05**					
153	n/a	<1E-6					
154	<0.1	<1E-6	0.1				
155	<0.1	**2.83E-06**					
156	<0.1	<1E-6					
160	<0.1	<1E-6					
163	<0.1	<1E-6					
219	<0.1	<1E-6	0.3				
488	<0.1	**3.82E-06**	0.5				

For each SWMU, the HI, ELCR, and Dose from the EU showing the highest result is presented.
Bold indicates HI > 0.1 or ELCR > 1E-6; ***bold italics*** indicates HI > 1 or ELCR > 1E-4.
n/a = no risks are applicable for the SWMU.
*For direct contact, current industrial worker for SWMUs/AOCs inside the limited area and the outdoor worker exposed to surface soils for SWMUs/AOCs outside the limited area are presented. Total HI and Total ELCR represent the cumulative value across all exposure routes calculated within this BHHRA (i.e., ingestion, dermal, inhalation, and external exposure).
Only total dose above 0.1 mrem is summarized.

Table D.42. RGOs for the Soils OU SWMUs

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
1	1	Beryllium	3.89E+00	2.8E-04	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
1	1	Cesium-137	5.91E-01	6.9E-06	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
1	1	Neptunium-237	4.02E-01	1.5E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
1	1	Thorium-230	4.40E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.38E+01	1.38E+02	1.38E+03	pCi/g
1	1	Uranium-238	1.97E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
1	2	Beryllium	8.23E+00	5.9E-04	0.2	4.29E+00	4.29E+01	1.29E+02	1.40E-02	1.40E-01	1.40E+00	mg/kg
1	2	Cadmium	6.46E+00	2.0E-06	<0.1	n/a	n/a	n/a	3.16E+00	3.16E+01	3.16E+02	mg/kg
1	2	Chromium	2.01E+02	6.7E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
1	2	Mercury	5.94E+00	<1.0E-06	0.7	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
1	2	Nickel	5.75E+01	<1.0E-06	0.1	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
1	2	PCB, Total	3.22E+01	1.7E-04	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
1	2	Silver	3.31E+01	<1.0E-06	0.3	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
1	2	Vanadium	3.49E+01	<1.0E-06	23.1	1.51E-01	1.51E+00	4.52E+00	n/a	n/a	n/a	mg/kg
1	3	PCB, Total	2.17E-01	1.2E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
1	3	Uranium-238	1.73E+00	1.0E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
1	4	Beryllium	7.25E-01	5.2E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
1	4	Chromium	9.30E+01	3.1E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
1	4	Cobalt-60	2.20E-02	1.2E-06	<0.1	n/a	n/a	n/a	1.77E-02	1.77E-01	1.77E+00	pCi/g
1	4	Nickel	4.69E+01	<1.0E-06	0.1	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
1	5	Beryllium	8.30E+00	5.9E-04	0.2	4.29E+00	4.29E+01	1.29E+02	1.40E-02	1.40E-01	1.40E+00	mg/kg
1	5	PCB, Total	2.70E-01	1.4E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
1	5	Total PAH	9.83E-02	1.7E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
99	1	Chromium	5.51E+01	1.8E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
99	1	Mercury	9.53E+00	<1.0E-06	1.1	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
99	1	Nickel	7.02E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	1	Chromium	3.87E+01	1.3E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	1	Mercury	6.71E+00	<1.0E-06	0.7	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
194	1	Nickel	5.84E+01	<1.0E-06	0.1	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	1	Silver	1.09E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
194	2	Chromium	5.96E+01	2.0E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	2	Silver	1.31E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
194	3	Arsenic	1.46E+01	1.5E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
194	3	Chromium	3.90E+01	1.3E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	3	Nickel	6.40E+01	<1.0E-06	0.1	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	4	Chromium	4.84E+01	1.6E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	4	Mercury	8.92E+00	<1.0E-06	1.0	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
194	4	Nickel	6.91E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	4	Silver	1.18E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
194	4	Total PAH	7.30E-02	1.2E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
194	4	Uranium-238	1.73E+00	1.0E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
194	5	Chromium	4.58E+01	1.5E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	5	Mercury	8.69E+00	<1.0E-06	1.0	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
194	5	Nickel	7.54E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	5	Silver	1.25E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
194	6	Chromium	3.70E+01	1.2E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	6	Nickel	8.06E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	7	Chromium	5.32E+01	1.8E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	7	Nickel	7.71E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	7	Silver	1.25E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
194	8	Chromium	5.36E+01	1.8E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	8	Total PAH	4.85E-01	8.2E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
194	9	Arsenic	1.14E+01	1.1E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
194	9	Chromium	5.17E+01	1.7E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	10	Arsenic	1.22E+01	1.2E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
194	10	Cesium-137	5.81E-01	6.7E-06	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
194	10	Chromium	3.63E+01	1.2E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	10	Nickel	7.60E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	10	Total PAH	2.57E-01	4.3E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
194	11	Chromium	3.27E+01	1.1E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	11	Mercury	8.09E+00	<1.0E-06	0.9	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
194	11	Nickel	1.01E+02	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	11	Silver	1.33E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
194	11	Total PAH	7.95E-02	1.3E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
194	12	Chromium	6.34E+01	2.1E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	12	Nickel	7.86E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	12	Silver	1.20E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
194	12	Total PAH	8.91E-01	1.5E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
194	13	Chromium	4.77E+01	1.6E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	13	Nickel	6.03E+01	<1.0E-06	0.1	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	13	Total PAH	9.13E-02	1.5E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
194	14	Chromium	5.21E+01	1.7E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	14	Mercury	8.14E+00	<1.0E-06	0.9	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
194	15	Chromium	5.33E+01	1.8E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	16	Arsenic	1.15E+01	1.2E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
194	16	Beryllium	8.70E-01	6.2E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
194	16	Chromium	5.32E+01	1.8E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	16	Nickel	7.20E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	16	Vanadium	4.11E+01	<1.0E-06	27.3	1.51E-01	1.51E+00	4.52E+00	n/a	n/a	n/a	mg/kg
194	17	Arsenic	1.16E+01	1.2E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
194	17	Chromium	4.65E+01	1.5E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	17	Total PAH	1.59E-01	2.7E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
194	18	Arsenic	1.06E+01	1.1E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
194	18	Beryllium	7.40E-01	5.3E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
194	18	Chromium	6.85E+01	2.3E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	18	Nickel	5.78E+01	<1.0E-06	0.1	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	19	Arsenic	1.07E+01	1.1E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
194	19	Chromium	4.84E+01	1.6E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	19	Nickel	5.84E+01	<1.0E-06	0.1	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	20	Arsenic	1.18E+01	1.2E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
194	20	Beryllium	1.10E+00	7.8E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
194	20	Chromium	5.24E+01	1.7E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	20	Cobalt	2.11E+01	<1.0E-06	0.2	1.05E+01	1.05E+02	3.16E+02	n/a	n/a	n/a	mg/kg
194	20	Mercury	7.28E+00	<1.0E-06	0.8	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
194	20	Nickel	6.57E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	20	Silver	1.22E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
194	20	Vanadium	3.81E+01	<1.0E-06	25.3	1.51E-01	1.51E+00	4.52E+00	n/a	n/a	n/a	mg/kg
194	21	Chromium	5.51E+01	1.8E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	21	Mercury	6.62E+00	<1.0E-06	0.7	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
194	21	Nickel	7.01E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	22	Chromium	4.90E+01	1.6E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	22	PCB, Total	1.09E+01	5.8E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
194	23	Arsenic	1.16E+01	1.2E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
194	23	Chromium	6.60E+01	2.2E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	23	Nickel	8.77E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	23	Silver	1.15E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
194	24	Chromium	5.02E+01	1.7E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	24	Nickel	7.08E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	25	Chromium	6.13E+01	2.0E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	25	Nickel	6.33E+01	<1.0E-06	0.1	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	26	Beryllium	7.00E-01	5.0E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
194	26	Chromium	4.18E+01	1.4E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	27	Chromium	5.22E+01	1.7E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	27	Nickel	6.55E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	28	Arsenic	1.20E+01	1.2E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
194	28	Beryllium	7.10E-01	5.1E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
194	28	Chromium	6.07E+01	2.0E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	28	Nickel	6.95E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	28	Silver	1.08E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
194	28	Vanadium	4.06E+01	<1.0E-06	27.0	1.51E-01	1.51E+00	4.52E+00	n/a	n/a	n/a	mg/kg
194	29	Chromium	5.06E+01	1.7E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	29	Nickel	6.51E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	30	Chromium	5.66E+01	1.9E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
194	30	Mercury	8.80E+00	<1.0E-06	1.0	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
194	30	Nickel	6.99E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
194	31	Cesium-137	5.70E-01	6.6E-06	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
194	31	Uranium-238	1.72E+00	1.0E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
196	1	Neptunium-237	3.11E-01	1.1E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
196	1	Nickel	5.56E+02	<1.0E-06	1.3	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
196	2	Nickel	7.36E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
196	2	PCB, Total	1.51E+00	8.0E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
196	2	Total PAH	6.80E-01	1.1E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
196	2	Uranium-238	2.21E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
211	1	Chromium	4.48E+01	1.5E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
211	1	PCB, Total	3.60E-01	1.9E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
211	1	Total PAH	1.04E-01	1.8E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
211	1	Uranium-238	5.84E+00	3.4E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
483	1	Nickel	1.17E+02	<1.0E-06	0.3	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
483	1	Silver	1.12E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
489	1	Chromium	4.16E+01	1.4E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
489	1	Nickel	7.88E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
489	1	Total PAH	8.22E-02	1.4E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
531	1	Arsenic	4.68E+01	4.7E-05	0.3	1.59E+01	1.59E+02	4.76E+02	9.97E-01	9.97E+00	9.97E+01	mg/kg
531	1	Chromium	5.05E+01	1.7E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
531	1	Iron	5.68E+04	<1.0E-06	0.2	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
531	1	Lead	5.31E+02									mg/kg
531	1	Nickel	1.62E+02	<1.0E-06	0.4	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
531	1	Uranium-238	3.48E+00	2.0E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
47	1	Arsenic	4.52E+01	4.5E-05	0.3	1.59E+01	1.59E+02	4.76E+02	9.97E-01	9.97E+00	9.97E+01	mg/kg
47	1	Beryllium	7.00E-01	5.0E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
47	1	Cadmium	4.25E+00	1.3E-06	<0.1	n/a	n/a	n/a	3.16E+00	3.16E+01	3.16E+02	mg/kg
47	1	Chromium	5.39E+01	1.8E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
47	1	Cobalt	1.43E+01	<1.0E-06	0.1	1.05E+01	1.05E+02	3.16E+02	n/a	n/a	n/a	mg/kg
47	1	Iron	2.95E+04	<1.0E-06	0.1	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
47	1	Nickel	8.25E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
47	1	PCB, Total	9.60E-01	5.1E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
47	1	Thorium-230	4.11E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.38E+01	1.38E+02	1.38E+03	pCi/g
47	1	Total PAH	5.41E+01	9.1E-04	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
47	1	Uranium-235	5.00E-01	1.3E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
47	1	Uranium-238	7.93E+00	4.7E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
200	1	Cesium-137	5.74E-01	6.7E-06	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
200	1	Chromium	5.75E+01	1.9E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
200	1	Mercury	6.71E+00	<1.0E-06	0.7	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
200	1	Nickel	1.28E+02	<1.0E-06	0.3	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
200	1	PCB, Total	2.60E+00	1.4E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
200	1	Uranium-238	3.58E+00	2.1E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
212	1	Arsenic	1.44E+01	1.4E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
212	1	Beryllium	8.10E-01	5.8E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
212	1	Cesium-137	6.01E-01	7.0E-06	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
212	1	Chromium	3.58E+01	1.2E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
212	1	Iron	4.14E+04	<1.0E-06	0.2	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
212	1	Neptunium-237	4.00E+00	1.5E-05	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
212	1	Nickel	8.69E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
212	1	Thorium-230	2.60E+02	1.9E-05	<0.1	n/a	n/a	n/a	1.38E+01	1.38E+02	1.38E+03	pCi/g
212	1	Uranium-238	3.17E+00	1.9E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
213	1	Chromium	4.78E+01	1.6E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
213	1	Nickel	6.67E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
213	1	Silver	1.32E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
213	1	Total PAH	1.72E-01	2.9E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
213	1	Uranium-238	2.33E+00	1.4E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
213	2	Chromium	4.48E+01	1.5E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
213	2	Nickel	9.10E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
213	2	Silver	1.13E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
215	1	Chromium	5.73E+01	1.9E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
215	1	Iron	3.87E+04	<1.0E-06	0.2	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
215	1	Nickel	7.32E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
215	1	Total PAH	8.09E-02	1.4E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
216	1	Total PAH	1.49E-01	2.5E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
217	1	Chromium	8.58E+01	2.8E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
217	1	Cobalt	1.96E+01	<1.0E-06	0.2	1.05E+01	1.05E+02	3.16E+02	n/a	n/a	n/a	mg/kg
217	1	Nickel	8.54E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
217	1	Silver	1.35E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
217	2	Arsenic	1.12E+01	1.1E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
217	2	Chromium	1.02E+02	3.4E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
217	2	Cobalt	1.74E+01	<1.0E-06	0.2	1.05E+01	1.05E+02	3.16E+02	n/a	n/a	n/a	mg/kg
217	2	Iron	3.09E+04	<1.0E-06	0.1	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
217	2	Mercury	8.59E+00	<1.0E-06	1.0	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
217	2	Nickel	9.74E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
217	2	Silver	1.61E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
217	2	Total PAH	5.05E-01	8.5E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
221	1	Chromium	7.01E+01	2.3E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
221	1	Nickel	7.93E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
221	1	PCB, Total	5.00E-01	2.7E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
221	1	Total PAH	1.02E+00	1.7E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
221	1	Uranium-238	1.93E+00	1.1E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
222	1	Chromium	4.73E+01	1.6E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
222	1	Nickel	9.19E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
222	1	PCB, Total	1.40E+00	7.5E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
222	1	Total PAH	1.77E-01	3.0E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
222	1	Uranium-235	7.10E-01	1.8E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
222	1	Uranium-238	1.96E+01	1.2E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
224	1	Chromium	4.49E+01	1.5E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
224	1	PCB, Total	4.75E+02	2.5E-03	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
224	1	Total PAH	4.53E+01	7.6E-04	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
224	1	Uranium-238	2.64E+01	1.6E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
225	1	Total PAH	7.79E-02	1.3E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
225	1	Uranium-238	2.04E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
226	1	Cesium-137	2.65E+00	3.1E-05	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
226	1	Chromium	4.25E+01	1.4E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
226	1	Mercury	9.74E+00	<1.0E-06	1.1	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
226	1	Neptunium-237	1.60E+02	5.9E-04	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
226	1	Nickel	2.10E+02	<1.0E-06	0.5	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
226	1	PCB, Total	1.49E+00	7.9E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
226	1	Thorium-230	4.77E+01	3.5E-06	<0.1	n/a	n/a	n/a	1.38E+01	1.38E+02	1.38E+03	pCi/g
226	1	Total PAH	9.19E-02	1.6E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
226	1	Uranium	4.01E+02	<1.0E-06	0.4	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
226	1	Uranium-234	2.29E+01	1.2E-06	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
226	1	Uranium-235	1.10E+00	2.8E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
226	1	Uranium-238	2.40E+01	1.4E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
227	1	Beryllium	5.52E-01	3.9E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
227	1	Cesium-137	1.90E-01	2.2E-06	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
227	1	Chromium	4.71E+01	1.6E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
227	1	Neptunium-237	9.05E-01	3.3E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
227	1	Nickel	2.03E+02	<1.0E-06	0.5	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
227	1	PCB, Total	4.14E+00	2.2E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
227	1	Total PAH	3.38E-01	5.7E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
227	1	Uranium-235	1.49E+00	3.8E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
227	1	Uranium-238	4.63E+01	2.7E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
227	2	Beryllium	5.32E-01	3.8E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
227	2	Chromium	5.63E+01	1.9E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
227	2	Mercury	8.41E+00	<1.0E-06	0.9	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
227	2	Nickel	1.25E+02	<1.0E-06	0.3	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
227	2	PCB, Total	5.82E+00	3.1E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
227	2	Total PAH	1.16E-01	2.0E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
228	1	Cadmium	3.90E+00	1.2E-06	<0.1	n/a	n/a	n/a	3.16E+00	3.16E+01	3.16E+02	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
228	1	Chromium	1.89E+02	6.3E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
228	1	Mercury	9.37E+00	<1.0E-06	1.0	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
228	1	Neptunium-237	8.00E-01	3.0E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
228	1	Nickel	7.92E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
228	1	Silver	1.16E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
228	1	Total PAH	6.69E-02	1.1E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
228	1	Uranium-238	3.77E+00	2.2E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
229	1	Nickel	9.14E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
229	1	Total PAH	1.57E-01	2.6E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
229	1	Uranium	1.56E+02	<1.0E-06	0.1	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
229	1	Uranium-238	2.86E+00	1.7E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
229	2	Arsenic	2.12E+01	2.1E-05	0.1	1.59E+01	1.59E+02	4.76E+02	9.97E-01	9.97E+00	9.97E+01	mg/kg
229	2	Beryllium	7.90E-01	5.6E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
229	2	Neptunium-237	2.87E-01	1.1E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
229	2	Nickel	9.93E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
229	2	Total PAH	1.69E+00	2.9E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
229	2	Uranium-235	8.40E-01	2.1E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
229	2	Uranium-238	2.49E+01	1.5E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
26	1	Arsenic	1.29E+01	1.3E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
26	1	Beryllium	6.69E-01	4.8E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
26	1	Cesium-137	3.16E+00	3.7E-05	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
26	1	PCB, Total	9.33E-01	5.0E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
26	1	Uranium	1.29E+02	<1.0E-06	0.1	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
26	1	Uranium-235	6.41E-01	1.6E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
26	1	Uranium-238	3.47E+01	2.0E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
26	2	Arsenic	4.72E+01	4.7E-05	0.3	1.59E+01	1.59E+02	4.76E+02	9.97E-01	9.97E+00	9.97E+01	mg/kg
26	2	Beryllium	9.69E+00	6.9E-04	0.2	4.29E+00	4.29E+01	1.29E+02	1.40E-02	1.40E-01	1.40E+00	mg/kg
26	2	Cesium-137	5.92E+00	6.9E-05	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
26	2	Chromium	3.90E+01	1.3E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
26	2	Cobalt	5.20E+01	<1.0E-06	0.5	1.05E+01	1.05E+02	3.16E+02	n/a	n/a	n/a	mg/kg
26	2	Iron	5.32E+04	<1.0E-06	0.2	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
26	2	Neptunium-237	7.89E-01	2.9E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
26	2	Nickel	1.13E+02	<1.0E-06	0.3	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
26	2	PCB, Total	2.23E+00	1.2E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
26	2	Thallium	1.39E+01	<1.0E-06	0.5	2.87E+00	2.87E+01	8.61E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
26	2	Thorium-230	1.51E+01	1.1E-06	<0.1	n/a	n/a	n/a	1.38E+01	1.38E+02	1.38E+03	pCi/g
26	2	Uranium	6.46E+02	<1.0E-06	0.6	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
26	2	Uranium-234	1.91E+01	1.0E-06	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
26	2	Uranium-235	1.71E+00	4.3E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
26	2	Uranium-238	5.14E+01	3.0E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
26	2	Vanadium	3.13E+01	<1.0E-06	20.7	1.51E-01	1.51E+00	4.52E+00	n/a	n/a	n/a	mg/kg
26	3	Arsenic	5.09E+01	5.1E-05	0.3	1.59E+01	1.59E+02	4.76E+02	9.97E-01	9.97E+00	9.97E+01	mg/kg
26	3	Beryllium	2.54E+00	1.8E-04	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
26	3	Cesium-137	7.48E-01	8.7E-06	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
26	3	Chromium	3.25E+01	1.1E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
26	3	Cobalt	1.21E+01	<1.0E-06	0.1	1.05E+01	1.05E+02	3.16E+02	n/a	n/a	n/a	mg/kg
26	3	Neptunium-237	7.53E-01	2.8E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
26	3	PCB, Total	2.52E+00	1.3E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
26	3	Silver	2.59E+01	<1.0E-06	0.2	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
26	3	Total PAH	1.19E+00	2.0E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
26	3	Uranium-234	4.63E+01	2.4E-06	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
26	3	Uranium-235	1.69E+00	4.3E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
26	3	Uranium-238	5.19E+01	3.0E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
26	3	Vanadium	3.77E+01	<1.0E-06	25.0	1.51E-01	1.51E+00	4.52E+00	n/a	n/a	n/a	mg/kg
26	4	Beryllium	6.91E-01	4.9E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
26	4	Cesium-137	6.38E-01	7.4E-06	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
26	4	Chromium	8.57E+01	2.8E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
26	4	Lead	1.19E+02									mg/kg
26	4	Mercury	3.07E+00	<1.0E-06	0.3	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
26	4	Neptunium-237	1.36E+01	5.0E-05	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
26	4	Nickel	7.54E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
26	4	PCB, Total	5.54E-01	3.0E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
26	4	Technetium-99	5.97E+02	1.7E-06	<0.1	n/a	n/a	n/a	3.61E+02	3.61E+03	3.61E+04	pCi/g
26	4	Thorium-230	3.26E+01	2.4E-06	<0.1	n/a	n/a	n/a	1.38E+01	1.38E+02	1.38E+03	pCi/g
26	4	Uranium	9.75E+02	<1.0E-06	0.9	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
26	4	Uranium-234	1.54E+02	8.2E-06	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
26	4	Uranium-235	1.08E+01	2.7E-05	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
26	4	Uranium-238	3.66E+02	2.2E-04	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
76	1	PCB, Total	2.60E-01	1.4E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
76	1	Total PAH	1.76E+00	3.0E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
165	1	Arsenic	6.35E+01	6.4E-05	0.4	1.59E+01	1.59E+02	4.76E+02	9.97E-01	9.97E+00	9.97E+01	mg/kg
165	1	Beryllium	6.82E-01	4.9E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
165	1	Cesium-137	3.47E+00	4.0E-05	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
165	1	Chromium	3.74E+01	1.2E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
165	1	Neptunium-237	4.26E-01	1.6E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
165	1	PCB, Total	8.27E+00	4.4E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
165	1	Silver	3.09E+01	<1.0E-06	0.3	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
165	1	Total PAH	1.87E+00	3.2E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
165	1	Uranium	1.08E+02	<1.0E-06	0.1	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
165	1	Uranium-234	5.76E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
165	1	Uranium-235	2.05E+00	5.2E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
165	1	Uranium-238	6.41E+01	3.8E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
158	1	Arsenic	1.01E+01	1.0E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
158	1	Chromium	6.07E+01	2.0E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
158	1	Cobalt	1.62E+01	<1.0E-06	0.2	1.05E+01	1.05E+02	3.16E+02	n/a	n/a	n/a	mg/kg
158	1	Mercury	1.05E+01	<1.0E-06	1.2	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
158	1	Nickel	7.28E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
158	1	Total PAH	3.69E-01	6.2E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
158	1	Uranium-238	3.79E+00	2.2E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
169	1	Arsenic	2.03E+01	2.0E-05	0.1	1.59E+01	1.59E+02	4.76E+02	9.97E-01	9.97E+00	9.97E+01	mg/kg
169	1	Beryllium	8.00E-01	5.7E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
169	1	Chromium	2.15E+02	7.1E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
169	1	Iron	4.16E+04	<1.0E-06	0.2	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
169	1	Mercury	7.87E+00	<1.0E-06	0.9	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
169	1	Nickel	5.49E+02	<1.0E-06	1.3	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
169	1	PCB, Total	1.00E+01	5.3E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
169	1	Total PAH	4.59E+00	7.7E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
169	1	Uranium-235	4.60E-01	1.2E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
169	1	Uranium-238	8.12E+00	4.8E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
176	1	Arsenic	4.86E+01	4.9E-05	0.3	1.59E+01	1.59E+02	4.76E+02	9.97E-01	9.97E+00	9.97E+01	mg/kg
176	1	Chromium	4.27E+01	1.4E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
176	1	Lead	4.45E+02									mg/kg
176	1	Nickel	1.07E+02	<1.0E-06	0.3	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
19	1	Beryllium	1.10E+00	7.8E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
19	1	Total PAH	5.23E+00	8.8E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
138	1	Antimony	5.39E+00	<1.0E-06	0.2	2.53E+00	2.53E+01	7.59E+01	n/a	n/a	n/a	mg/kg
138	1	Arsenic	1.06E+01	1.1E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
138	1	Cadmium	5.42E+00	1.7E-06	<0.1	n/a	n/a	n/a	3.16E+00	3.16E+01	3.16E+02	mg/kg
138	1	Chromium	5.39E+01	1.8E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
138	1	Mercury	1.30E+01	<1.0E-06	1.4	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
138	1	Nickel	7.04E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
138	1	PCB, Total	5.00E-01	2.7E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
138	1	Total PAH	9.74E-02	1.6E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
138	2	Nickel	7.99E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
180	1	Arsenic	7.48E+01	7.5E-05	0.5	1.59E+01	1.59E+02	4.76E+02	9.97E-01	9.97E+00	9.97E+01	mg/kg
180	1	Chromium	5.54E+01	1.8E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
180	1	Lead	1.99E+03									mg/kg
180	1	Mercury	8.28E+00	<1.0E-06	0.9	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
180	1	Nickel	8.77E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
180	2	Arsenic	1.27E+01	1.3E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
180	2	Chromium	4.46E+01	1.5E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
180	2	Nickel	8.42E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
180	2	Total PAH	9.19E-02	1.6E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
180	3	Arsenic	1.34E+01	1.3E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
180	3	Chromium	4.69E+01	1.6E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
180	3	Nickel	6.77E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
180	3	Silver	1.14E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
180	4	Arsenic	1.15E+01	1.2E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
180	4	Beryllium	1.60E+00	1.1E-04	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
180	4	Chromium	6.00E+01	2.0E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
180	4	Nickel	6.46E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
180	4	Vanadium	4.85E+01	<1.0E-06	32.2	1.51E-01	1.51E+00	4.52E+00	n/a	n/a	n/a	mg/kg
181	1	Thallium	3.50E+00	<1.0E-06	0.1	2.87E+00	2.87E+01	8.61E+01	n/a	n/a	n/a	mg/kg
195	1	Chromium	6.33E+01	2.1E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
195	1	Nickel	7.02E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
195	2	Chromium	4.52E+01	1.5E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
195	3	Chromium	5.03E+01	1.7E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
195	3	Nickel	5.22E+01	<1.0E-06	0.1	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
195	4	Chromium	5.29E+01	1.8E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
195	4	Nickel	6.23E+01	<1.0E-06	0.1	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
195	5	Chromium	5.74E+01	1.9E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
195	5	Nickel	8.11E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
195	6	Chromium	4.45E+01	1.5E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
195	6	Nickel	8.71E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
195	6	Total PAH	2.48E-01	4.2E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
195	7	Chromium	4.93E+01	1.6E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
195	8	Arsenic	1.16E+01	1.2E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
195	8	Beryllium	7.40E-01	5.3E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
195	8	Chromium	6.79E+01	2.3E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
195	8	Cobalt	1.82E+01	<1.0E-06	0.2	1.05E+01	1.05E+02	3.16E+02	n/a	n/a	n/a	mg/kg
195	8	Nickel	7.01E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
195	8	Total PAH	2.16E-01	3.6E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
195	8	Vanadium	4.04E+01	<1.0E-06	26.8	1.51E-01	1.51E+00	4.52E+00	n/a	n/a	n/a	mg/kg
195	9	Chromium	6.08E+01	2.0E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
195	9	Nickel	7.93E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
195	10	Chromium	4.51E+01	1.5E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
195	10	Nickel	7.40E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
195	10	Silver	1.31E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
195	11	Arsenic	1.35E+01	1.3E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
195	11	Chromium	5.05E+01	1.7E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
195	11	Cobalt	2.77E+01	<1.0E-06	0.3	1.05E+01	1.05E+02	3.16E+02	n/a	n/a	n/a	mg/kg
195	11	Nickel	6.77E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
195	11	Vanadium	7.97E+01	<1.0E-06	52.9	1.51E-01	1.51E+00	4.52E+00	n/a	n/a	n/a	mg/kg
195	12	Beryllium	7.50E-01	5.4E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
195	12	Chromium	7.04E+01	2.3E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
195	12	Nickel	6.78E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
195	13	Chromium	6.55E+01	2.2E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
195	13	Nickel	6.91E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
195	14	Chromium	5.94E+01	2.0E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
195	14	Nickel	7.04E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
195	15	Chromium	4.82E+01	1.6E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
195	16	Chromium	4.45E+01	1.5E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
195	16	Nickel	8.16E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
195	17	Chromium	8.22E+01	2.7E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
195	17	Nickel	5.93E+01	<1.0E-06	0.1	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
195	17	PCB, Total	7.40E-01	3.9E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
195	17	Total PAH	3.16E-01	5.3E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
195	17	Uranium-238	2.48E+00	1.5E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
204	1	Beryllium	1.36E+00	9.7E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
204	1	Chromium	7.40E+01	2.5E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
204	1	Iron	4.19E+04	<1.0E-06	0.2	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
204	1	PCB, Total	2.53E+00	1.3E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
204	1	Uranium-238	5.20E+00	3.1E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
204	1	Vanadium	7.55E+01	<1.0E-06	50.1	1.51E-01	1.51E+00	4.52E+00	n/a	n/a	n/a	mg/kg
204	3	Uranium-238	2.50E+00	1.5E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
204	4	Uranium-238	9.72E+00	5.7E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
204	18	Cesium-137	6.30E-01	7.3E-06	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
204	18	Uranium-238	5.37E+00	3.2E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
204	23	Beryllium	1.33E+00	9.5E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
204	23	Cesium-137	1.17E+00	1.4E-05	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
204	23	Chromium	1.75E+02	5.8E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
204	23	PCB, Total	7.90E+01	4.2E-04	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
204	23	Uranium	1.31E+04	<1.0E-06	12.2	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
204	23	Uranium-234	4.45E+02	2.4E-05	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
204	23	Uranium-235	5.70E+01	1.4E-04	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
204	23	Uranium-238	4.39E+03	2.6E-03	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
486	1	Cesium-137	1.71E+00	2.00E-05	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
487	1	Cesium-137	1.38E+00	1.60E-05	<0.1	n/a	n/a	n/a	0.0861	0.861	8.61	pCi/g
492	1	Arsenic	1.47E+01	1.5E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
492	1	Beryllium	1.04E+01	7.4E-04	0.2	4.29E+00	4.29E+01	1.29E+02	1.40E-02	1.40E-01	1.40E+00	mg/kg
492	1	Chromium	1.04E+03	3.4E-05	0.1	8.46E+02	8.46E+03	2.54E+04	3.02E+01	3.02E+02	3.02E+03	mg/kg
492	1	PCB, Total	4.41E+01	2.3E-04	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
492	1	Uranium	1.77E+03	<1.0E-06	1.7	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
492	1	Uranium-234	5.39E+01	2.8E-06	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
492	1	Uranium-235	5.72E+00	1.4E-05	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
492	1	Uranium-238	3.83E+02	2.3E-04	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
492	1	Vanadium	4.32E+01	<1.0E-06	28.7	1.51E-01	1.51E+00	4.52E+00	n/a	n/a	n/a	mg/kg
493	1	Beryllium	9.91E-01	7.1E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
493	1	Chromium	6.61E+01	2.2E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
493	1	Cobalt	3.79E+01	<1.0E-06	0.4	1.05E+01	1.05E+02	3.16E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
493	1	Manganese	3.55E+03	<1.0E-06	0.1	2.58E+03	2.58E+04	7.75E+04	n/a	n/a	n/a	mg/kg
493	1	Nickel	2.13E+02	<1.0E-06	0.5	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
493	1	PCB, Total	2.60E-01	1.4E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
493	1	Total PAH	5.00E-01	8.4E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
493	1	Uranium-238	5.50E+00	3.2E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
493	1	Vanadium	4.05E+01	<1.0E-06	26.9	1.51E-01	1.51E+00	4.52E+00	n/a	n/a	n/a	mg/kg
517	1	Beryllium	7.39E-01	5.3E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
517	1	Chromium	4.91E+01	1.6E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
517	1	Neptunium-237	1.07E+00	3.9E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
517	1	Nickel	1.72E+02	<1.0E-06	0.4	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
517	1	PCB, Total	5.00E-01	2.7E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
517	1	Uranium-238	3.89E+00	2.3E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
541	1	Americium-241	7.53E+00	1.5E-06	<0.1	n/a	n/a	n/a	5.01E+00	5.01E+01	5.01E+02	pCi/g
541	1	Beryllium	6.98E-01	5.0E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
541	1	Cesium-137	9.58E-01	1.1E-05	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
541	1	Chromium	8.24E+02	2.7E-05	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
541	1	PCB, Total	6.06E+01	3.2E-04	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
541	1	Total PAH	2.33E+00	3.9E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
541	1	Uranium	6.38E+03	<1.0E-06	6.0	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
541	1	Uranium-234	1.43E+02	7.5E-06	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
541	1	Uranium-235	1.76E+01	4.4E-05	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
541	1	Uranium-238	1.00E+03	5.9E-04	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
541	1	Vanadium	3.04E+01	<1.0E-06	20.2	1.51E-01	1.51E+00	4.52E+00	n/a	n/a	n/a	mg/kg
561	1	Arsenic	1.66E+01	1.7E-05	0.1	1.59E+01	1.59E+02	4.76E+02	9.97E-01	9.97E+00	9.97E+01	mg/kg
561	1	Beryllium	6.85E-01	4.9E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
561	1	Chromium	8.58E+01	2.8E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
561	1	Cobalt	1.07E+01	<1.0E-06	0.1	1.05E+01	1.05E+02	3.16E+02	n/a	n/a	n/a	mg/kg
561	1	Cobalt-60	7.06E-02	4.0E-06	<0.1	n/a	n/a	n/a	1.77E-02	1.77E-01	1.77E+00	pCi/g
561	1	PCB, Total	1.04E+00	5.6E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
561	1	Total PAH	1.65E-01	2.8E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
561	1	Uranium	2.65E+02	<1.0E-06	0.2	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
561	1	Uranium-235	1.37E+00	3.5E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
561	1	Uranium-238	1.07E+02	6.3E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
561	1	Vanadium	3.76E+01	<1.0E-06	25.0	1.51E-01	1.51E+00	4.52E+00	n/a	n/a	n/a	mg/kg
561	2	Antimony	5.33E+00	<1.0E-06	0.2	2.53E+00	2.53E+01	7.59E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
561	2	Arsenic	1.30E+01	1.3E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
561	2	Beryllium	6.34E-01	4.5E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
561	2	Cesium-137	4.09E-01	4.7E-06	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
561	2	Chromium	2.88E+02	9.6E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
561	2	Cobalt	1.14E+01	<1.0E-06	0.1	1.05E+01	1.05E+02	3.16E+02	n/a	n/a	n/a	mg/kg
561	2	Cobalt-60	2.76E-02	1.6E-06	<0.1	n/a	n/a	n/a	1.77E-02	1.77E-01	1.77E+00	pCi/g
561	2	PCB, Total	1.64E+01	8.7E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
561	2	Total PAH	4.43E-01	7.5E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
561	2	Uranium	1.38E+03	<1.0E-06	1.3	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
561	2	Uranium-234	4.06E+01	2.1E-06	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
561	2	Uranium-235	7.09E+00	1.8E-05	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
561	2	Uranium-238	4.00E+02	2.4E-04	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
561	2	Vanadium	3.46E+01	<1.0E-06	22.9	1.51E-01	1.51E+00	4.52E+00	n/a	n/a	n/a	mg/kg
562	1	Uranium-238	2.73E+00	1.6E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
562	2	PCB, Total	1.58E+00	8.4E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
562	2	Uranium-234	5.34E+01	2.8E-06	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
562	2	Uranium-235	8.96E+00	2.3E-05	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
562	2	Uranium-238	5.81E+02	3.4E-04	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
562	3	Chromium	3.82E+01	1.3E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
562	3	PCB, Total	2.40E-01	1.3E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
562	3	Total PAH	2.20E-01	3.7E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
562	3	Uranium-238	1.09E+01	6.4E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
562	4	Chromium	4.67E+01	1.5E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
562	4	Uranium-238	2.24E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
562	5	Chromium	1.53E+02	5.1E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
562	5	PCB, Total	9.50E-01	5.1E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
562	5	Total PAH	7.05E-02	1.2E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
562	5	Uranium	2.08E+02	<1.0E-06	0.2	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
562	5	Uranium-235	9.50E-01	2.4E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
562	5	Uranium-238	6.24E+01	3.7E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
563	1	Chromium	2.85E+02	9.4E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
563	1	PCB, Total	7.40E-01	3.9E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
563	1	Uranium-238	2.76E+00	1.6E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
563	2	Cesium-137	6.47E-01	7.5E-06	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
564	1	Arsenic	4.30E+01	4.3E-05	0.3	1.59E+01	1.59E+02	4.76E+02	9.97E-01	9.97E+00	9.97E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
564	1	Beryllium	2.12E+00	1.5E-04	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
564	1	Cesium-137	6.20E-01	7.2E-06	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
564	1	Chromium	7.49E+01	2.5E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
564	1	Iron	3.66E+04	<1.0E-06	0.1	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
564	1	PCB, Total	1.93E+00	1.0E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
564	1	Uranium-238	8.33E+00	4.9E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
564	1	Vanadium	8.06E+01	<1.0E-06	53.5	1.51E-01	1.51E+00	4.52E+00	n/a	n/a	n/a	mg/kg
567	3	Chromium	3.79E+01	1.3E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
12	1	Arsenic	1.34E+01	1.3E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
12	1	Beryllium	6.72E+00	4.8E-04	0.2	4.29E+00	4.29E+01	1.29E+02	1.40E-02	1.40E-01	1.40E+00	mg/kg
12	1	Chromium	6.33E+01	2.1E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
12	1	Iron	3.01E+04	<1.0E-06	0.1	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
12	1	Mercury	8.80E+00	<1.0E-06	1.0	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
12	1	Nickel	7.74E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
12	1	PCB, Total	3.90E-01	2.1E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
12	1	Silver	1.10E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
12	1	Total PAH	1.70E-01	2.9E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
12	1	Uranium	3.76E+02	<1.0E-06	0.4	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
12	1	Uranium-235	1.53E+00	3.9E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
12	1	Uranium-238	6.68E+01	3.9E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
12	1	Vanadium	2.80E+01	<1.0E-06	18.6	1.51E-01	1.51E+00	4.52E+00	n/a	n/a	n/a	mg/kg
13	1	PCB, Total	7.00E-01	3.7E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
13	5	Nickel	1.17E+02	<1.0E-06	0.3	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
13	5	PCB, Total	1.05E+00	5.6E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
13	5	Total PAH	6.65E-02	1.1E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
13	5	Uranium	1.19E+02	<1.0E-06	0.1	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
13	9	Neptunium-237	8.90E-01	3.3E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
13	9	Uranium-238	6.08E+00	3.6E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
14	1	Arsenic	1.10E+01	1.1E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
14	1	Chromium	6.36E+01	2.1E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
14	1	Nickel	1.40E+02	<1.0E-06	0.3	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
14	1	PCB, Total	5.00E-01	2.7E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
14	1	Silver	1.67E+01	<1.0E-06	0.2	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
14	1	Technetium-99	4.06E+02	1.1E-06	<0.1	n/a	n/a	n/a	3.61E+02	3.61E+03	3.61E+04	pCi/g
14	2	Antimony	3.70E+00	<1.0E-06	0.1	2.53E+00	2.53E+01	7.59E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	2	Arsenic	1.45E+01	1.5E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
14	2	Beryllium	7.10E-01	5.1E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
14	2	Chromium	6.65E+01	2.2E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
14	2	Iron	3.72E+04	<1.0E-06	0.1	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
14	2	Neptunium-237	7.70E-01	2.8E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
14	2	Nickel	6.78E+02	<1.0E-06	1.6	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
14	2	PCB, Total	3.90E-01	2.1E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
14	2	Total PAH	3.38E-01	5.7E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
14	2	Uranium	2.93E+02	<1.0E-06	0.3	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
14	2	Uranium-234	3.24E+01	1.7E-06	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
14	2	Uranium-235	2.00E+00	5.1E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
14	2	Uranium-238	5.61E+01	3.3E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
14	3	Arsenic	1.30E+01	1.3E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
14	3	Chromium	7.01E+01	2.3E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
14	3	Iron	3.48E+04	<1.0E-06	0.1	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
14	3	Mercury	7.48E+00	<1.0E-06	0.8	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
14	3	Nickel	5.76E+02	<1.0E-06	1.3	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
14	3	PCB, Total	8.65E+00	4.6E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
14	3	Uranium	2.18E+02	<1.0E-06	0.2	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
14	4	Antimony	4.30E+00	<1.0E-06	0.2	2.53E+00	2.53E+01	7.59E+01	n/a	n/a	n/a	mg/kg
14	4	Arsenic	1.33E+01	1.3E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
14	4	Chromium	7.20E+01	2.4E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
14	4	Iron	3.88E+04	<1.0E-06	0.2	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
14	4	Neptunium-237	2.68E+00	9.9E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
14	4	Nickel	7.31E+02	<1.0E-06	1.7	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
14	4	PCB, Total	6.61E+00	3.5E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
14	4	Silver	1.17E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
14	4	Total PAH	2.51E-01	4.2E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
14	4	Uranium	3.72E+02	<1.0E-06	0.3	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
14	4	Uranium-234	1.13E+02	6.0E-06	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
14	4	Uranium-235	8.00E+00	2.0E-05	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
14	4	Uranium-238	1.69E+02	9.9E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
14	5	Arsenic	1.31E+01	1.3E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
14	5	Cadmium	3.90E+00	1.2E-06	<0.1	n/a	n/a	n/a	3.16E+00	3.16E+01	3.16E+02	mg/kg
14	5	Chromium	4.70E+01	1.6E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	5	Cobalt	1.40E+01	<1.0E-06	0.1	1.05E+01	1.05E+02	3.16E+02	n/a	n/a	n/a	mg/kg
14	5	Iron	3.92E+04	<1.0E-06	0.2	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
14	5	Mercury	1.09E+01	<1.0E-06	1.2	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
14	5	Neptunium-237	1.74E+00	6.4E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
14	5	Nickel	4.61E+02	<1.0E-06	1.1	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
14	5	PCB, Total	1.00E+00	5.3E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
14	5	Silver	1.29E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
14	5	Thorium-230	1.39E+01	1.0E-06	<0.1	n/a	n/a	n/a	1.38E+01	1.38E+02	1.38E+03	pCi/g
14	5	Total PAH	1.21E-01	2.0E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
14	5	Uranium	2.62E+02	<1.0E-06	0.2	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
14	5	Uranium-234	5.22E+01	2.8E-06	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
14	5	Uranium-235	3.33E+00	8.4E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
14	5	Uranium-238	9.42E+01	5.5E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
14	6	Antimony	2.70E+00	<1.0E-06	0.1	2.53E+00	2.53E+01	7.59E+01	n/a	n/a	n/a	mg/kg
14	6	Chromium	4.46E+02	1.5E-05	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
14	6	Neptunium-237	2.65E+00	9.8E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
14	6	Nickel	9.63E+02	<1.0E-06	2.3	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
14	6	PCB, Total	5.00E+00	2.7E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
14	6	Silver	1.19E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
14	6	Uranium	5.79E+02	<1.0E-06	0.5	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
14	6	Uranium-234	3.41E+01	1.8E-06	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
14	6	Uranium-235	2.27E+00	5.7E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
14	6	Uranium-238	5.08E+01	3.0E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
14	7	Arsenic	1.13E+01	1.1E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
14	7	Chromium	6.46E+01	2.1E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
14	7	Mercury	7.82E+00	<1.0E-06	0.9	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
14	7	Neptunium-237	1.49E+00	5.5E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
14	7	Nickel	1.22E+03	<1.0E-06	2.9	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
14	7	PCB, Total	7.60E+00	4.1E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
14	7	Total PAH	6.31E-02	1.1E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
14	7	Uranium	3.33E+02	<1.0E-06	0.3	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
14	7	Uranium-235	9.60E-01	2.4E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
14	7	Uranium-238	2.13E+01	1.3E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
14	8	Arsenic	1.14E+01	1.1E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
14	8	Chromium	4.60E+01	1.5E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	8	Mercury	7.90E+00	<1.0E-06	0.9	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
14	8	Neptunium-237	8.80E-01	3.2E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
14	8	Nickel	6.73E+02	<1.0E-06	1.6	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
14	8	PCB, Total	5.00E+00	2.7E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
14	8	Total PAH	6.28E-02	1.1E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
14	8	Uranium	3.35E+02	<1.0E-06	0.3	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
14	8	Uranium-238	5.92E+00	3.5E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
14	9	Arsenic	1.40E+01	1.4E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
14	9	Cesium-137	4.53E-01	5.3E-06	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
14	9	Chromium	4.64E+01	1.5E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
14	9	Mercury	1.13E+00	<1.0E-06	0.1	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
14	9	Neptunium-237	1.09E+01	4.0E-05	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
14	9	Nickel	9.43E+02	<1.0E-06	2.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
14	9	PCB, Total	6.84E+00	3.6E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
14	9	Total PAH	4.87E-01	8.2E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
14	9	Uranium	1.46E+03	<1.0E-06	1.4	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
14	9	Uranium-234	8.32E+02	4.4E-05	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
14	9	Uranium-235	5.46E+01	1.4E-04	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
14	9	Uranium-238	1.20E+03	7.1E-04	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
14	10	Arsenic	1.12E+01	1.1E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
14	10	Chromium	4.19E+01	1.4E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
14	10	Iron	2.75E+04	<1.0E-06	0.1	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
14	10	Mercury	2.51E+01	<1.0E-06	2.8	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
14	10	Neptunium-237	2.64E+00	9.7E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
14	10	Nickel	6.00E+02	<1.0E-06	1.4	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
14	10	PCB, Total	9.38E+00	5.0E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
14	10	Total PAH	2.72E-01	4.6E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
14	10	Uranium	2.88E+02	<1.0E-06	0.3	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
14	10	Uranium-234	2.42E+01	1.3E-06	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
14	10	Uranium-235	1.76E+00	4.5E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
14	10	Uranium-238	4.09E+01	2.4E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
15	1	Arsenic	1.24E+01	1.2E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
15	1	Chromium	5.61E+01	1.9E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
15	1	Iron	2.95E+04	<1.0E-06	0.1	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
15	1	Nickel	1.33E+02	<1.0E-06	0.3	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	1	Silver	1.23E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
15	1	Total PAH	1.71E+00	2.9E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
15	1	Uranium-238	1.85E+00	1.1E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
15	2	Arsenic	1.63E+01	1.6E-05	0.1	1.59E+01	1.59E+02	4.76E+02	9.97E-01	9.97E+00	9.97E+01	mg/kg
15	2	Chromium	5.90E+01	2.0E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
15	2	Iron	3.89E+04	<1.0E-06	0.2	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
15	2	Mercury	9.33E+00	<1.0E-06	1.0	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
15	2	Nickel	1.97E+02	<1.0E-06	0.5	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
15	2	PCB, Total	3.30E-01	1.8E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
15	2	Total PAH	2.11E+00	3.6E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
15	2	Uranium	1.32E+02	<1.0E-06	0.1	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
15	2	Uranium-238	1.21E+01	7.1E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
15	3	Antimony	2.45E+01	<1.0E-06	1.0	2.53E+00	2.53E+01	7.59E+01	n/a	n/a	n/a	mg/kg
15	3	Arsenic	2.60E+01	2.6E-05	0.2	1.59E+01	1.59E+02	4.76E+02	9.97E-01	9.97E+00	9.97E+01	mg/kg
15	3	Beryllium	7.60E-01	5.4E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
15	3	Cadmium	1.19E+01	3.8E-06	<0.1	n/a	n/a	n/a	3.16E+00	3.16E+01	3.16E+02	mg/kg
15	3	Chromium	7.53E+01	2.5E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
15	3	Cobalt	3.41E+01	<1.0E-06	0.3	1.05E+01	1.05E+02	3.16E+02	n/a	n/a	n/a	mg/kg
15	3	Iron	9.20E+04	<1.0E-06	0.4	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
15	3	Lead	3.79E+02									mg/kg
15	3	Mercury	2.74E+00	<1.0E-06	0.3	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
15	3	Neptunium-237	4.10E+00	1.5E-05	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
15	3	Nickel	7.57E+02	<1.0E-06	1.8	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
15	3	PCB, Total	6.82E+00	3.6E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
15	3	Technetium-99	3.67E+02	1.0E-06	<0.1	n/a	n/a	n/a	3.61E+02	3.61E+03	3.61E+04	pCi/g
15	3	Total PAH	1.45E+00	2.5E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
15	3	Uranium	2.16E+02	<1.0E-06	0.2	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
15	3	Uranium-234	6.96E+01	3.7E-06	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
15	3	Uranium-235	4.21E+00	1.1E-05	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
15	3	Uranium-238	9.67E+01	5.7E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
15	4	Antimony	7.40E+00	<1.0E-06	0.3	2.53E+00	2.53E+01	7.59E+01	n/a	n/a	n/a	mg/kg
15	4	Arsenic	3.47E+01	3.5E-05	0.2	1.59E+01	1.59E+02	4.76E+02	9.97E-01	9.97E+00	9.97E+01	mg/kg
15	4	Chromium	1.02E+02	3.4E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
15	4	Iron	7.81E+04	<1.0E-06	0.3	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
15	4	Lead	5.12E+02									mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	4	Mercury	1.41E+01	<1.0E-06	1.6	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
15	4	Neptunium-237	8.00E-01	3.0E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
15	4	Nickel	1.37E+03	<1.0E-06	3.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
15	4	PCB, Total	2.67E+01	1.4E-04	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
15	4	Silver	1.46E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
15	4	Total PAH	2.44E+00	4.1E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
15	4	Uranium	1.57E+02	<1.0E-06	0.1	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
15	4	Uranium-235	4.30E-01	1.1E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
15	4	Uranium-238	1.87E+01	1.1E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
15	5	Antimony	3.10E+00	<1.0E-06	0.1	2.53E+00	2.53E+01	7.59E+01	n/a	n/a	n/a	mg/kg
15	5	Arsenic	1.28E+01	1.3E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
15	5	Chromium	4.28E+01	1.4E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
15	5	Copper	5.63E+03	<1.0E-06	0.4	1.43E+03	1.43E+04	4.30E+04	n/a	n/a	n/a	mg/kg
15	5	Neptunium-237	6.90E-01	2.5E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
15	5	Nickel	5.10E+02	<1.0E-06	1.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
15	5	PCB, Total	2.51E+01	1.3E-04	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
15	5	Silver	1.46E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
15	5	Total PAH	5.11E-01	8.6E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
15	5	Uranium	2.13E+02	<1.0E-06	0.2	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
15	5	Uranium-235	4.60E-01	1.2E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
15	5	Uranium-238	1.03E+01	6.1E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
15	6	Antimony	5.10E+00	<1.0E-06	0.2	2.53E+00	2.53E+01	7.59E+01	n/a	n/a	n/a	mg/kg
15	6	Arsenic	1.24E+01	1.2E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
15	6	Chromium	5.80E+01	1.9E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
15	6	Cobalt	1.62E+01	<1.0E-06	0.2	1.05E+01	1.05E+02	3.16E+02	n/a	n/a	n/a	mg/kg
15	6	Iron	3.15E+04	<1.0E-06	0.1	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
15	6	Neptunium-237	6.40E-01	2.4E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
15	6	Nickel	3.24E+02	<1.0E-06	0.8	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
15	6	PCB, Total	6.17E+00	3.3E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
15	6	Silver	1.09E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
15	6	Total PAH	1.62E+00	2.7E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
15	6	Uranium-235	5.70E-01	1.4E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
15	6	Uranium-238	1.54E+01	9.1E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
15	7	Arsenic	1.61E+01	1.6E-05	0.1	1.59E+01	1.59E+02	4.76E+02	9.97E-01	9.97E+00	9.97E+01	mg/kg
15	7	Chromium	7.87E+01	2.6E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	7	Iron	3.42E+04	<1.0E-06	0.1	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
15	7	Nickel	5.59E+02	<1.0E-06	1.3	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
15	7	PCB, Total	2.57E+01	1.4E-04	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
15	7	Silver	1.29E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
15	7	Total PAH	1.59E-01	2.7E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
15	7	Uranium-235	4.50E-01	1.1E-06	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
15	7	Uranium-238	8.05E+00	4.7E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
15	8	Antimony	5.40E+00	<1.0E-06	0.2	2.53E+00	2.53E+01	7.59E+01	n/a	n/a	n/a	mg/kg
15	8	Arsenic	1.17E+01	1.2E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
15	8	Chromium	7.74E+01	2.6E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
15	8	Iron	2.83E+04	<1.0E-06	0.1	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
15	8	Mercury	1.00E+01	<1.0E-06	1.1	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
15	8	Neptunium-237	3.65E-01	1.3E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
15	8	Nickel	1.82E+02	<1.0E-06	0.4	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
15	8	PCB, Total	4.90E+00	2.6E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
15	8	Silver	1.36E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
15	8	Total PAH	3.59E-01	6.1E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
15	8	Uranium-238	6.64E+00	3.9E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
15	9	Arsenic	1.10E+01	1.1E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
15	9	Chromium	9.56E+01	3.2E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
15	9	Iron	2.76E+04	<1.0E-06	0.1	2.51E+04	2.51E+05	7.53E+05	n/a	n/a	n/a	mg/kg
15	9	Nickel	1.49E+02	<1.0E-06	0.3	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
15	9	PCB, Total	3.30E-01	1.8E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
15	9	Silver	1.54E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
15	9	Total PAH	2.38E-01	4.0E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
15	9	Uranium-238	7.12E+00	4.2E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
15	10	Chromium	3.55E+01	1.2E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
15	10	Mercury	7.84E+00	<1.0E-06	0.9	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
15	10	Nickel	1.46E+02	<1.0E-06	0.3	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
15	10	Silver	1.08E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
15	10	Total PAH	1.28E-01	2.2E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
16	1	Cesium-137	1.10E+00	1.3E-05	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
16	2	Beryllium	8.40E-01	6.0E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
16	3	PCB, Total	9.49E-01	5.1E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
16	4	Cesium-137	3.66E+01	4.2E-04	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
16	4	Neptunium-237	7.12E+00	2.6E-05	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
16	4	PCB, Total	3.20E-01	1.7E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
16	4	Total PAH	2.93E+00	4.9E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
16	4	Uranium-234	1.19E+02	6.3E-06	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
16	4	Uranium-235	8.23E+00	2.1E-05	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
16	4	Uranium-238	2.70E+02	1.6E-04	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
518	1	PCB, Total	6.30E-01	3.4E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
518	1	Total PAH	4.64E+00	7.8E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
518	1	Uranium	2.17E+02	<1.0E-06	0.2	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
520	1	Cesium-137	9.62E-01	1.1E-05	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
520	1	Chromium	3.17E+01	1.1E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
520	1	Mercury	1.07E+01	<1.0E-06	1.2	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
520	1	Neptunium-237	6.56E-01	2.4E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
520	1	Nickel	2.60E+02	<1.0E-06	0.6	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
520	1	Silver	1.30E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
520	1	Uranium-238	3.93E+00	2.3E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
520	2	Beryllium	5.79E-01	4.1E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
520	2	Chromium	6.67E+01	2.2E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
520	2	Mercury	1.19E+01	<1.0E-06	1.3	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
520	2	Nickel	3.11E+02	<1.0E-06	0.7	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
520	2	Total PAH	3.17E-01	5.4E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
520	2	Uranium-238	1.78E+00	1.0E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
520	3	Chromium	3.97E+01	1.3E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
520	3	Nickel	2.65E+02	<1.0E-06	0.6	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
520	3	Silver	1.27E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
520	3	Total PAH	1.18E-01	2.0E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
520	4	Chromium	3.82E+01	1.3E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
520	4	Mercury	9.69E+00	<1.0E-06	1.1	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
520	4	Neptunium-237	7.40E-01	2.7E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
520	4	Nickel	2.82E+02	<1.0E-06	0.7	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
520	4	Total PAH	5.52E-01	9.3E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
520	4	Uranium-238	6.26E+00	3.7E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
520	5	Chromium	3.68E+01	1.2E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
520	5	Nickel	1.47E+02	<1.0E-06	0.3	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
520	5	Total PAH	3.87E-01	6.5E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
74	1	PCB, Total	2.97E+00	1.6E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
74	1	Total PAH	3.16E+00	5.3E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
74	1	Uranium-238	3.85E+01	2.3E-05	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
75	1	Chromium	7.17E+01	2.4E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
75	1	Nickel	8.87E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
75	1	PCB, Total	2.30E-01	1.2E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
75	1	Total PAH	2.21E-01	3.7E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
78	1	Chromium	3.75E+01	1.2E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
78	1	Naphthalene	1.60E+01	7.2E-06	0.2	7.77E+00	7.77E+01	2.33E+02	2.24E+00	2.24E+01	2.24E+02	mg/kg
78	1	PCB, Total	1.20E+01	6.4E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
78	1	Total PAH	3.91E+01	6.6E-04	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
78	1	Uranium-238	5.29E+00	3.1E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
80	1	Americium-241	6.40E+00	1.3E-06	<0.1	n/a	n/a	n/a	5.01E+00	5.01E+01	5.01E+02	pCi/g
80	1	Beryllium	7.80E-01	5.6E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
80	1	Chromium	1.65E+02	5.5E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
80	1	Neptunium-237	5.05E-01	1.9E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
80	1	PCB, Total	1.46E+01	7.8E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
80	1	Total PAH	1.42E-01	2.4E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
80	1	Uranium	5.72E+03	<1.0E-06	5.3	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
80	1	Uranium-234	2.29E+02	1.2E-05	<0.1	n/a	n/a	n/a	1.89E+01	1.89E+02	1.89E+03	pCi/g
80	1	Uranium-235	3.00E+01	7.6E-05	<0.1	n/a	n/a	n/a	3.95E-01	3.95E+00	3.95E+01	pCi/g
80	1	Uranium-238	1.92E+03	1.1E-03	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
81	1	Arsenic	1.03E+01	1.0E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
81	1	Beryllium	7.57E-01	5.4E-05	<0.1	n/a	n/a	n/a	1.40E-02	1.40E-01	1.40E+00	mg/kg
81	1	Chromium	8.62E+01	2.9E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
81	1	Mercury	8.33E+00	<1.0E-06	0.9	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
81	1	Nickel	7.29E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
81	1	PCB, Total	1.60E+02	8.5E-04	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
81	1	Total PAH	5.53E-01	9.3E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
81	1	Uranium	6.50E+03	<1.0E-06	6.1	1.07E+02	1.07E+03	3.21E+03	n/a	n/a	n/a	mg/kg
81	1	Uranium-238	2.29E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
153	1	PCB, Total	5.09E-01	2.7E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
153	1	Total PAH	8.69E-02	1.5E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
154	1	Arsenic	1.52E+01	1.5E-05	<0.1	n/a	n/a	n/a	9.97E-01	9.97E+00	9.97E+01	mg/kg
154	1	Chromium	4.28E+01	1.4E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
154	1	Nickel	9.89E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
154	1	PCB, Total	3.20E+00	1.7E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
154	1	Total PAH	1.04E+00	1.8E-05	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
154	1	Uranium-238	3.06E+00	1.8E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
154	2	PCB, Total	4.00E-01	2.1E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
155	1	Antimony	3.65E+00	<1.0E-06	0.1	2.53E+00	2.53E+01	7.59E+01	n/a	n/a	n/a	mg/kg
155	1	Chromium	3.47E+01	1.2E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
155	1	Nickel	7.65E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
155	1	PCB, Total	9.20E+00	4.9E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
155	1	Silver	1.11E+01	<1.0E-06	0.1	1.08E+01	1.08E+02	3.23E+02	n/a	n/a	n/a	mg/kg
156	1	Chromium	4.90E+01	1.6E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
156	1	Manganese	2.83E+03	<1.0E-06	0.1	2.58E+03	2.58E+04	7.75E+04	n/a	n/a	n/a	mg/kg
156	1	Mercury	9.87E+00	<1.0E-06	1.1	9.00E-01	9.00E+00	2.70E+01	n/a	n/a	n/a	mg/kg
156	1	Nickel	6.16E+01	<1.0E-06	0.1	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
156	1	PCB, Total	3.00E-01	1.6E-06	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
156	1	Total PAH	8.26E-02	1.4E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
156	1	Uranium-238	2.19E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
163	1	Chromium	4.94E+01	1.6E-06	<0.1	n/a	n/a	n/a	3.02E+01	3.02E+02	3.02E+03	mg/kg
163	1	Total PAH	1.63E-01	2.8E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
219	1	Neptunium-237	3.31E-01	1.2E-06	<0.1	n/a	n/a	n/a	2.71E-01	2.71E+00	2.71E+01	pCi/g
219	1	Nickel	6.71E+01	<1.0E-06	0.2	4.28E+01	4.28E+02	1.28E+03	n/a	n/a	n/a	mg/kg
219	1	Total PAH	7.50E-02	1.3E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
219	1	Uranium-238	4.40E+00	2.6E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g
488	1	Cesium-137	5.20E-01	6.0E-06	<0.1	n/a	n/a	n/a	8.61E-02	8.61E-01	8.61E+00	pCi/g
488	1	PCB, Total	1.03E+01	5.5E-05	<0.1	n/a	n/a	n/a	1.88E-01	1.88E+00	1.88E+01	mg/kg
488	1	Total PAH	2.50E-01	4.2E-06	<0.1	n/a	n/a	n/a	5.92E-02	5.92E-01	5.92E+00	mg/kg
488	1	Uranium-238	4.54E+00	2.7E-06	<0.1	n/a	n/a	n/a	1.70E+00	1.70E+01	1.70E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
1	1	Beryllium	3.89E+00	2.2E-04	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
1	1	Cesium-137	5.91E-01	5.1E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
1	1	Neptunium-237	4.02E-01	1.2E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
1	1	PCB, Total	1.76E-01	1.1E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
1	1	Plutonium-239/240	6.14E+00	3.8E-06	<0.1	n/a	n/a	n/a	1.62E+00	1.62E+01	1.62E+02	pCi/g
1	1	Thorium-230	4.40E+01	2.0E-05	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
1	1	Uranium-238	1.97E+00	1.7E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
1	2	Beryllium	8.23E+00	4.7E-04	0.2	5.32E+00	5.32E+01	1.60E+02	1.74E-02	1.74E-01	1.74E+00	mg/kg
1	2	Cadmium	6.46E+00	4.2E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
1	2	Chromium	2.01E+02	4.9E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
1	2	Mercury	5.94E+00	<1.0E-06	0.6	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
1	2	Nickel	5.75E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
1	2	PCB, Total	3.22E+01	2.0E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
1	2	Silver	3.31E+01	<1.0E-06	0.2	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
1	2	Vanadium	3.49E+01	<1.0E-06	18.7	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
1	3	PCB, Total	2.17E-01	1.3E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
1	3	Uranium-238	1.73E+00	1.5E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
1	4	Beryllium	7.25E-01	4.2E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
1	4	Chromium	9.30E+01	2.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
1	4	Thorium-230	5.03E+00	2.3E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
1	5	Beryllium	8.30E+00	4.8E-04	0.2	5.32E+00	5.32E+01	1.60E+02	1.74E-02	1.74E-01	1.74E+00	mg/kg
1	5	PCB, Total	2.70E-01	1.7E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
1	5	Total PAH	9.83E-02	2.0E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
99	1	Chromium	5.51E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
99	1	Mercury	9.53E+00	<1.0E-06	0.9	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
99	1	Nickel	7.02E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	1	Mercury	6.71E+00	<1.0E-06	0.6	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	1	Nickel	5.84E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	2	Chromium	5.96E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	2	Uranium-238	1.42E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
194	3	Arsenic	1.46E+01	3.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	3	Nickel	6.40E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	3	Uranium-238	1.28E+00	1.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
194	4	Chromium	4.84E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	4	Mercury	8.92E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	4	Nickel	6.91E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	4	Total PAH	7.30E-02	1.5E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
194	4	Uranium-238	1.73E+00	1.5E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
194	5	Chromium	4.58E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	5	Mercury	8.69E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	5	Nickel	7.54E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	5	Uranium-238	1.38E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
194	6	Nickel	8.06E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	6	Uranium-238	1.32E+00	1.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
194	7	Chromium	5.32E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	7	Nickel	7.71E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	8	Chromium	5.36E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	8	Total PAH	4.85E-01	1.0E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
194	8	Uranium-238	1.39E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
194	9	Arsenic	1.14E+01	2.8E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	9	Chromium	5.17E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	10	Arsenic	1.22E+01	2.9E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	10	Cesium-137	5.81E-01	5.0E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
194	10	Nickel	7.60E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	10	Total PAH	2.57E-01	5.3E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
194	10	Uranium-238	1.49E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
194	11	Mercury	8.09E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	11	Nickel	1.01E+02	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	11	Total PAH	7.95E-02	1.6E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
194	12	Chromium	6.34E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	12	Nickel	7.86E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	12	Total PAH	8.91E-01	1.8E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
194	13	Chromium	4.77E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	13	Nickel	6.03E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	13	Total PAH	9.13E-02	1.9E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
194	14	Chromium	5.21E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	14	Mercury	8.14E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	15	Chromium	5.33E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	16	Arsenic	1.15E+01	2.8E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	16	Beryllium	8.70E-01	5.0E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	16	Chromium	5.32E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	16	Nickel	7.20E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	16	Vanadium	4.11E+01	<1.0E-06	22.0	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
194	17	Arsenic	1.16E+01	2.8E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	17	Chromium	4.65E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	17	Total PAH	1.59E-01	3.3E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
194	18	Arsenic	1.06E+01	2.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	18	Beryllium	7.40E-01	4.3E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	18	Chromium	6.85E+01	1.7E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	18	Nickel	5.78E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	19	Arsenic	1.07E+01	2.6E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	19	Chromium	4.84E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	19	Nickel	5.84E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	20	Arsenic	1.18E+01	2.9E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	20	Beryllium	1.10E+00	6.3E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	20	Chromium	5.24E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	20	Cobalt	2.11E+01	<1.0E-06	0.4	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
194	20	Manganese	2.29E+03	<1.0E-06	0.1	1.97E+03	1.97E+04	5.90E+04	n/a	n/a	n/a	mg/kg
194	20	Mercury	7.28E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	20	Nickel	6.57E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	20	Vanadium	3.81E+01	<1.0E-06	20.4	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
194	21	Chromium	5.51E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	21	Mercury	6.62E+00	<1.0E-06	0.6	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	21	Nickel	7.01E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	22	Chromium	4.90E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	22	PCB, Total	1.09E+01	6.7E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
194	23	Arsenic	1.16E+01	2.8E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	23	Chromium	6.60E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	23	Iron	1.83E+04	<1.0E-06	0.1	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
194	23	Nickel	8.77E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	24	Chromium	5.02E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	24	Nickel	7.08E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	25	Chromium	6.13E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	25	Nickel	6.33E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	26	Beryllium	7.00E-01	4.0E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	26	Chromium	4.18E+01	1.0E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	27	Chromium	5.22E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	27	Nickel	6.55E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	28	Arsenic	1.20E+01	2.9E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	28	Beryllium	7.10E-01	4.1E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	28	Chromium	6.07E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	28	Nickel	6.95E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	28	Vanadium	4.06E+01	<1.0E-06	21.8	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
194	29	Chromium	5.06E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	29	Nickel	6.51E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	30	Chromium	5.66E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	30	Mercury	8.80E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	30	Nickel	6.99E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	31	Cesium-137	5.70E-01	4.9E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
194	31	Uranium-238	1.72E+00	1.5E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
196	1	Nickel	5.56E+02	<1.0E-06	1.0	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
196	1	Uranium-238	1.54E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
196	2	Cadmium	2.53E+00	1.7E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
196	2	Nickel	7.36E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
196	2	PCB, Total	1.51E+00	9.3E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
196	2	Total PAH	6.80E-01	1.4E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
196	2	Uranium-238	2.21E+00	1.9E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
211	1	Chromium	4.48E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
211	1	PCB, Total	3.60E-01	2.2E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
211	1	Total PAH	1.04E-01	2.1E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
211	1	Uranium-238	5.84E+00	5.0E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
483	1	Nickel	1.17E+02	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
489	1	Chromium	4.16E+01	1.0E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
489	1	Nickel	7.88E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
489	1	Total PAH	8.22E-02	1.7E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
489	1	Uranium-238	1.47E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
531	1	Arsenic	4.68E+01	1.1E-04	0.7	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
531	1	Cadmium	3.10E+00	2.0E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
531	1	Chromium	5.05E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
531	1	Iron	5.68E+04	<1.0E-06	0.4	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
531	1	Lead	5.31E+02									mg/kg
531	1	Nickel	1.62E+02	<1.0E-06	0.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
531	1	Total PAH	5.34E-02	1.1E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
531	1	Uranium-238	3.48E+00	3.0E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
47	1	Arsenic	4.52E+01	1.1E-04	0.7	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
47	1	Beryllium	7.00E-01	4.0E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
47	1	Cadmium	4.25E+00	2.8E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
47	1	Chromium	5.39E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
47	1	Cobalt	1.43E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
47	1	Iron	2.95E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
47	1	Nickel	8.25E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
47	1	PCB, Total	9.60E-01	5.9E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
47	1	Plutonium-239/240	4.11E+00	2.5E-06	<0.1	n/a	n/a	n/a	1.62E+00	1.62E+01	1.62E+02	pCi/g
47	1	Thorium-230	4.11E+01	1.9E-05	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
47	1	Total PAH	5.41E+01	1.1E-03	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
47	1	Uranium-234	6.85E+00	2.4E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
47	1	Uranium-235	5.00E-01	1.1E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
47	1	Uranium-238	7.93E+00	6.8E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
200	1	Cesium-137	5.74E-01	5.0E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
200	1	Chromium	5.75E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
200	1	Mercury	6.71E+00	<1.0E-06	0.6	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
200	1	Nickel	1.28E+02	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
200	1	PCB, Total	2.60E+00	1.6E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
200	1	Uranium-238	3.58E+00	3.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
212	1	Arsenic	1.44E+01	3.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
212	1	Beryllium	8.10E-01	4.7E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
212	1	Cesium-137	6.01E-01	5.2E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
212	1	Iron	4.14E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
212	1	Neptunium-237	4.00E+00	1.2E-05	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
212	1	Nickel	8.69E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
212	1	PCB, Total	1.80E-01	1.1E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
212	1	Plutonium-239/240	6.71E+00	4.1E-06	<0.1	n/a	n/a	n/a	1.62E+00	1.62E+01	1.62E+02	pCi/g
212	1	Thorium-230	2.60E+02	1.2E-04	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
212	1	Uranium-238	3.17E+00	2.7E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
213	1	Chromium	4.78E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
213	1	Nickel	6.67E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
213	1	Total PAH	1.72E-01	3.5E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
213	1	Uranium-238	2.33E+00	2.0E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
213	2	Chromium	4.48E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
213	2	Nickel	9.10E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
215	1	Chromium	5.73E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
215	1	Iron	3.87E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
215	1	Nickel	7.32E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
215	1	Total PAH	8.09E-02	1.7E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
216	1	Total PAH	1.49E-01	3.1E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
216	1	Uranium-238	1.33E+00	1.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
217	1	Chromium	8.58E+01	2.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
217	1	Cobalt	1.96E+01	<1.0E-06	0.3	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
217	1	Nickel	8.54E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
217	1	Silver	1.35E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
217	2	Arsenic	1.12E+01	2.7E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
217	2	Chromium	1.02E+02	2.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
217	2	Cobalt	1.74E+01	<1.0E-06	0.3	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
217	2	Iron	3.09E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
217	2	Mercury	8.59E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
217	2	Nickel	9.74E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
217	2	Silver	1.61E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
217	2	Total PAH	5.05E-01	1.0E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
221	1	Chromium	7.01E+01	1.7E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
221	1	Iron	1.90E+04	<1.0E-06	0.1	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
221	1	Nickel	7.93E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
221	1	PCB, Total	5.00E-01	3.1E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
221	1	Total PAH	1.02E+00	2.1E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
221	1	Uranium-238	1.93E+00	1.6E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
222	1	Chromium	4.73E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
222	1	Nickel	9.19E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
222	1	PCB, Total	1.40E+00	8.6E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
222	1	Total PAH	1.77E-01	3.7E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
222	1	Uranium-234	1.04E+01	3.7E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
222	1	Uranium-235	7.10E-01	1.6E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
222	1	Uranium-238	1.96E+01	1.7E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
224	1	Chromium	4.49E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
224	1	PCB, Total	4.75E+02	2.9E-03	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
224	1	Total PAH	4.53E+01	9.3E-04	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
224	1	Uranium-238	2.64E+01	2.3E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
225	1	Total PAH	7.79E-02	1.6E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
225	1	Uranium-238	2.04E+00	1.7E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
226	1	Cesium-137	2.65E+00	2.3E-05	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
226	1	Chromium	4.25E+01	1.0E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
226	1	Mercury	9.74E+00	<1.0E-06	0.9	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
226	1	Neptunium-237	1.60E+02	4.9E-04	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
226	1	Nickel	2.10E+02	<1.0E-06	0.4	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
226	1	PCB, Total	1.49E+00	9.2E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
226	1	Plutonium-238	2.13E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.64E+00	1.64E+01	1.64E+02	pCi/g
226	1	Plutonium-239/240	6.52E+00	4.0E-06	<0.1	n/a	n/a	n/a	1.62E+00	1.62E+01	1.62E+02	pCi/g
226	1	Thorium-230	4.77E+01	2.2E-05	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
226	1	Total PAH	9.19E-02	1.9E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
226	1	Uranium	4.01E+02	<1.0E-06	0.7	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
226	1	Uranium-234	2.29E+01	8.1E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
226	1	Uranium-235	1.10E+00	2.4E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
226	1	Uranium-238	2.40E+01	2.0E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
227	1	Beryllium	5.52E-01	3.2E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
227	1	Cesium-137	1.90E-01	1.6E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
227	1	Chromium	4.71E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
227	1	Neptunium-237	9.05E-01	2.8E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
227	1	Nickel	2.03E+02	<1.0E-06	0.4	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
227	1	PCB, Total	4.14E+00	2.6E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
227	1	Total PAH	3.38E-01	7.0E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
227	1	Uranium	1.02E+02	<1.0E-06	0.2	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
227	1	Uranium-234	1.54E+01	5.5E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
227	1	Uranium-235	1.49E+00	3.3E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
227	1	Uranium-238	4.63E+01	3.9E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
227	2	Beryllium	5.32E-01	3.1E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
227	2	Chromium	5.63E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
227	2	Cobalt	8.99E+00	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
227	2	Mercury	8.41E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
227	2	Nickel	1.25E+02	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
227	2	PCB, Total	5.82E+00	3.6E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
227	2	Total PAH	1.16E-01	2.4E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
227	2	Uranium-238	1.57E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
228	1	Cadmium	3.90E+00	2.6E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
228	1	Chromium	1.89E+02	4.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
228	1	Mercury	9.37E+00	<1.0E-06	0.9	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
228	1	Neptunium-237	8.00E-01	2.4E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
228	1	Nickel	7.92E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
228	1	Total PAH	6.69E-02	1.4E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
228	1	Uranium-238	3.77E+00	3.2E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
229	1	Nickel	9.14E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
229	1	Total PAH	1.57E-01	3.2E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
229	1	Uranium	1.56E+02	<1.0E-06	0.3	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
229	1	Uranium-238	2.86E+00	2.4E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
229	2	Arsenic	2.12E+01	5.1E-05	0.3	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
229	2	Beryllium	7.90E-01	4.5E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
229	2	Nickel	9.93E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
229	2	Total PAH	1.69E+00	3.5E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
229	2	Uranium	7.45E+01	<1.0E-06	0.1	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
229	2	Uranium-234	1.22E+01	4.3E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
229	2	Uranium-235	8.40E-01	1.8E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
229	2	Uranium-238	2.49E+01	2.1E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
26	1	Arsenic	1.29E+01	3.1E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
26	1	Beryllium	6.69E-01	3.9E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
26	1	Cadmium	1.99E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
26	1	Cesium-137	3.16E+00	2.7E-05	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
26	1	PCB, Total	9.33E-01	5.8E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
26	1	Plutonium-239/240	4.04E+00	2.5E-06	<0.1	n/a	n/a	n/a	1.62E+00	1.62E+01	1.62E+02	pCi/g
26	1	Thorium-230	3.82E+00	1.7E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
26	1	Total PAH	5.00E-02	1.0E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
26	1	Uranium	1.29E+02	<1.0E-06	0.2	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
26	1	Uranium-234	4.67E+00	1.6E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
26	1	Uranium-235	6.41E-01	1.4E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
26	1	Uranium-238	3.47E+01	3.0E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
26	2	Aluminum	2.17E+04	<1.0E-06	0.1	1.87E+04	1.87E+05	5.62E+05	n/a	n/a	n/a	mg/kg
26	2	Arsenic	4.72E+01	1.1E-04	0.7	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
26	2	Beryllium	9.69E+00	5.6E-04	0.2	5.32E+00	5.32E+01	1.60E+02	1.74E-02	1.74E-01	1.74E+00	mg/kg
26	2	Cadmium	2.38E+00	1.6E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
26	2	Cesium-137	5.92E+00	5.1E-05	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
26	2	Cobalt	5.20E+01	<1.0E-06	0.9	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
26	2	Iron	5.32E+04	<1.0E-06	0.4	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
26	2	Neptunium-237	7.89E-01	2.4E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
26	2	Nickel	1.13E+02	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
26	2	PCB, Total	2.23E+00	1.4E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
26	2	Thallium	1.39E+01	<1.0E-06	0.9	1.55E+00	1.55E+01	4.64E+01	n/a	n/a	n/a	mg/kg
26	2	Thorium-230	1.51E+01	6.9E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
26	2	Uranium	6.46E+02	<1.0E-06	1.1	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
26	2	Uranium-234	1.91E+01	6.7E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
26	2	Uranium-235	1.71E+00	3.8E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
26	2	Uranium-238	5.14E+01	4.4E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
26	2	Vanadium	3.13E+01	<1.0E-06	16.7	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
26	3	Arsenic	5.09E+01	1.2E-04	0.8	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
26	3	Beryllium	2.54E+00	1.5E-04	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
26	3	Cadmium	2.34E+00	1.5E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
26	3	Cesium-137	7.48E-01	6.5E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
26	3	Cobalt	1.21E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
26	3	Neptunium-237	7.53E-01	2.3E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
26	3	PCB, Total	2.52E+00	1.6E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
26	3	Silver	2.59E+01	<1.0E-06	0.2	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
26	3	Technetium-99	6.48E+01	1.1E-06	<0.1	n/a	n/a	n/a	5.79E+01	5.79E+02	5.79E+03	pCi/g
26	3	Thorium-230	7.10E+00	3.2E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
26	3	Total PAH	1.19E+00	2.4E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
26	3	Uranium	9.88E+01	<1.0E-06	0.2	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
26	3	Uranium-234	4.63E+01	1.6E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
26	3	Uranium-235	1.69E+00	3.7E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
26	3	Uranium-238	5.19E+01	4.4E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
26	3	Vanadium	3.77E+01	<1.0E-06	20.2	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
26	4	Beryllium	6.91E-01	4.0E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
26	4	Cadmium	1.99E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
26	4	Cesium-137	6.38E-01	5.5E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
26	4	Chromium	8.57E+01	2.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
26	4	Lead	1.19E+02									mg/kg
26	4	Mercury	3.07E+00	<1.0E-06	0.3	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
26	4	Neptunium-237	1.36E+01	4.1E-05	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
26	4	Nickel	7.54E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
26	4	PCB, Total	5.54E-01	3.4E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
26	4	Plutonium-239/240	5.00E+00	3.1E-06	<0.1	n/a	n/a	n/a	1.62E+00	1.62E+01	1.62E+02	pCi/g
26	4	Technetium-99	5.97E+02	1.0E-05	<0.1	n/a	n/a	n/a	5.79E+01	5.79E+02	5.79E+03	pCi/g
26	4	Thorium-230	3.26E+01	1.5E-05	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
26	4	Uranium	9.75E+02	<1.0E-06	1.7	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
26	4	Uranium-234	1.54E+02	5.5E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
26	4	Uranium-235	1.08E+01	2.4E-05	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
26	4	Uranium-238	3.66E+02	3.1E-04	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
76	1	PCB, Total	2.60E-01	1.6E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
76	1	Total PAH	1.76E+00	3.6E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
76	1	Uranium-238	1.45E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
165	1	Arsenic	6.35E+01	1.5E-04	1.0	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
165	1	Beryllium	6.82E-01	3.9E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
165	1	Cesium-137	3.47E+00	3.0E-05	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
165	1	Neptunium-237	4.26E-01	1.3E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
165	1	PCB, Total	8.27E+00	5.1E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
165	1	Plutonium-239/240	2.81E+00	1.7E-06	<0.1	n/a	n/a	n/a	1.62E+00	1.62E+01	1.62E+02	pCi/g
165	1	Silver	3.09E+01	<1.0E-06	0.2	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
165	1	Thorium-230	6.02E+00	2.7E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
165	1	Total PAH	1.87E+00	3.9E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
165	1	Uranium	1.08E+02	<1.0E-06	0.2	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
165	1	Uranium-234	5.76E+01	2.0E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
165	1	Uranium-235	2.05E+00	4.5E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
165	1	Uranium-238	6.41E+01	5.5E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
170	1	Uranium-238	1.53E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
158	1	Arsenic	1.01E+01	2.4E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
158	1	Chromium	6.07E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
158	1	Cobalt	1.62E+01	<1.0E-06	0.3	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
158	1	Mercury	1.05E+01	<1.0E-06	1.0	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
158	1	Nickel	7.28E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
158	1	Total PAH	3.69E-01	7.6E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
158	1	Uranium-238	3.79E+00	3.2E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
169	1	Arsenic	2.03E+01	4.9E-05	0.3	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
169	1	Beryllium	8.00E-01	4.6E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
169	1	Chromium	2.15E+02	5.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
169	1	Iron	4.16E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
169	1	Mercury	7.87E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
169	1	Nickel	5.49E+02	<1.0E-06	1.0	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
169	1	PCB, Total	1.00E+01	6.2E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
169	1	Total PAH	4.59E+00	9.5E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
169	1	Uranium-234	6.55E+00	2.3E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
169	1	Uranium-235	4.60E-01	1.0E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
169	1	Uranium-238	8.12E+00	6.9E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
176	1	Arsenic	4.86E+01	1.2E-04	0.7	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
176	1	Chromium	4.27E+01	1.0E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
176	1	Lead	4.45E+02									mg/kg
176	1	Nickel	1.07E+02	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
19	1	Beryllium	1.10E+00	6.3E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
19	1	Total PAH	5.23E+00	1.1E-04	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
138	1	Antimony	5.39E+00	<1.0E-06	0.2	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
138	1	Arsenic	1.06E+01	2.6E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
138	1	Cadmium	5.42E+00	3.6E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
138	1	Chromium	5.39E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
138	1	Mercury	1.30E+01	<1.0E-06	1.2	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
138	1	Nickel	7.04E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
138	1	PCB, Total	5.00E-01	3.1E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
138	1	Total PAH	9.74E-02	2.0E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
138	2	Nickel	7.99E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
180	1	Arsenic	7.48E+01	1.8E-04	1.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
180	1	Chromium	5.54E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
180	1	Lead	1.99E+03									mg/kg
180	1	Mercury	8.28E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
180	1	Nickel	8.77E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
180	2	Arsenic	1.27E+01	3.0E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
180	2	Chromium	4.46E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
180	2	Nickel	8.42E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
180	2	Total PAH	9.19E-02	1.9E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
180	3	Arsenic	1.34E+01	3.2E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
180	3	Chromium	4.69E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
180	3	Nickel	6.77E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
180	4	Arsenic	1.15E+01	2.8E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
180	4	Beryllium	1.60E+00	9.2E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
180	4	Chromium	6.00E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
180	4	Iron	1.54E+04	<1.0E-06	0.1	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
180	4	Nickel	6.46E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
180	4	Vanadium	4.85E+01	<1.0E-06	26.0	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
181	1	Thallium	3.50E+00	<1.0E-06	0.2	1.55E+00	1.55E+01	4.64E+01	n/a	n/a	n/a	mg/kg
195	1	Chromium	6.33E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	1	Nickel	7.02E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	2	Chromium	4.52E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	3	Chromium	5.03E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	4	Chromium	5.29E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	4	Nickel	6.23E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	5	Chromium	5.74E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	5	Nickel	8.11E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	6	Chromium	4.45E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	6	Nickel	8.71E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	6	Total PAH	2.48E-01	5.1E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
195	7	Chromium	4.93E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	8	Arsenic	1.16E+01	2.8E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
195	8	Beryllium	7.40E-01	4.3E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
195	8	Chromium	6.79E+01	1.7E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	8	Cobalt	1.82E+01	<1.0E-06	0.3	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
195	8	Nickel	7.01E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	8	Total PAH	2.16E-01	4.4E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
195	8	Vanadium	4.04E+01	<1.0E-06	21.6	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
195	9	Chromium	6.08E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
195	9	Nickel	7.93E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	10	Chromium	4.51E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	10	Nickel	7.40E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	11	Aluminum	2.81E+04	<1.0E-06	0.2	1.87E+04	1.87E+05	5.62E+05	n/a	n/a	n/a	mg/kg
195	11	Arsenic	1.35E+01	3.2E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
195	11	Chromium	5.05E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	11	Cobalt	2.77E+01	<1.0E-06	0.5	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
195	11	Iron	1.97E+04	<1.0E-06	0.1	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
195	11	Nickel	6.77E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	11	Vanadium	7.97E+01	<1.0E-06	42.7	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
195	12	Beryllium	7.50E-01	4.3E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
195	12	Chromium	7.04E+01	1.7E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	12	Nickel	6.78E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	13	Chromium	6.55E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	13	Nickel	6.91E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	14	Chromium	5.94E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	14	Nickel	7.04E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	15	Chromium	4.82E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	16	Chromium	4.45E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	16	Nickel	8.16E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	17	Chromium	8.22E+01	2.0E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	17	Nickel	5.93E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	17	PCB, Total	7.40E-01	4.6E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
195	17	Total PAH	3.16E-01	6.5E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
195	17	Uranium-238	2.48E+00	2.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
204	1	Beryllium	1.36E+00	7.8E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
204	1	Cadmium	2.73E+00	1.8E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
204	1	Chromium	7.40E+01	1.8E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
204	1	Iron	4.19E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
204	1	PCB, Total	2.53E+00	1.6E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
204	1	Uranium-238	5.20E+00	4.4E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
204	1	Vanadium	7.55E+01	<1.0E-06	40.5	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
204	2	PCB, Total	1.70E-01	1.0E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
204	3	Uranium-238	2.50E+00	2.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
204	4	Uranium-238	9.72E+00	8.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
204	18	Cesium-137	6.30E-01	5.5E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
204	18	Uranium-238	5.37E+00	4.6E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
204	23	Americium-241	3.71E+00	2.1E-06	<0.1	n/a	n/a	n/a	1.73E+00	1.73E+01	1.73E+02	pCi/g
204	23	Beryllium	1.33E+00	7.7E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
204	23	Cesium-137	1.17E+00	1.0E-05	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
204	23	Chromium	1.75E+02	4.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
204	23	PCB, Total	7.90E+01	4.9E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
204	23	Uranium	1.31E+04	<1.0E-06	22.6	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
204	23	Uranium-234	4.45E+02	1.6E-04	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
204	23	Uranium-235	5.70E+01	1.3E-04	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
204	23	Uranium-238	4.39E+03	3.7E-03	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
486	1	Cesium-137	1.71E+00	1.50E-05	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
487	1	Cesium-137	1.38E+00	1.20E-05	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
492	1	Arsenic	1.47E+01	3.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
492	1	Beryllium	1.04E+01	6.0E-04	0.2	5.32E+00	5.32E+01	1.60E+02	1.74E-02	1.74E-01	1.74E+00	mg/kg
492	1	Cadmium	3.14E+00	2.1E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
492	1	Chromium	1.04E+03	2.6E-05	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
492	1	PCB, Total	4.41E+01	2.7E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
492	1	Uranium	1.77E+03	<1.0E-06	3.1	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
492	1	Uranium-234	5.39E+01	1.9E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
492	1	Uranium-235	5.72E+00	1.3E-05	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
492	1	Uranium-238	3.83E+02	3.3E-04	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
492	1	Vanadium	4.32E+01	<1.0E-06	23.1	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
493	1	Beryllium	9.91E-01	5.7E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
493	1	Chromium	6.61E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
493	1	Cobalt	3.79E+01	<1.0E-06	0.7	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
493	1	Manganese	3.55E+03	<1.0E-06	0.2	1.97E+03	1.97E+04	5.90E+04	n/a	n/a	n/a	mg/kg
493	1	Nickel	2.13E+02	<1.0E-06	0.4	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
493	1	PCB, Total	2.60E-01	1.6E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
493	1	Total PAH	5.00E-01	1.0E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
493	1	Uranium-238	5.50E+00	4.7E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
493	1	Vanadium	4.05E+01	<1.0E-06	21.7	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
517	1	Beryllium	7.39E-01	4.3E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
517	1	Chromium	4.91E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
517	1	Neptunium-237	1.07E+00	3.3E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
517	1	Nickel	1.72E+02	<1.0E-06	0.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
517	1	PCB, Total	5.00E-01	3.1E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
517	1	Uranium-238	3.89E+00	3.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
541	1	Americium-241	7.53E+00	4.4E-06	<0.1	n/a	n/a	n/a	1.73E+00	1.73E+01	1.73E+02	pCi/g
541	1	Beryllium	6.98E-01	4.0E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
541	1	Cadmium	1.68E+00	1.1E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
541	1	Cesium-137	9.58E-01	8.3E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
541	1	Chromium	8.24E+02	2.0E-05	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
541	1	Iron	1.60E+04	<1.0E-06	0.1	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
541	1	PCB, Total	6.06E+01	3.7E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
541	1	Total PAH	2.33E+00	4.8E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
541	1	Uranium	6.38E+03	<1.0E-06	11.0	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
541	1	Uranium-234	1.43E+02	5.0E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
541	1	Uranium-235	1.76E+01	3.9E-05	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
541	1	Uranium-238	1.00E+03	8.5E-04	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
541	1	Vanadium	3.04E+01	<1.0E-06	16.3	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
561	1	Arsenic	1.66E+01	4.0E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
561	1	Beryllium	6.85E-01	3.9E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
561	1	Chromium	8.58E+01	2.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
561	1	Cobalt	1.07E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
561	1	Cobalt-60	7.06E-02	3.0E-06	<0.1	n/a	n/a	n/a	2.38E-02	2.38E-01	2.38E+00	pCi/g
561	1	Iron	2.05E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
561	1	PCB, Total	1.04E+00	6.4E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
561	1	Total PAH	1.65E-01	3.4E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
561	1	Uranium	2.65E+02	<1.0E-06	0.5	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
561	1	Uranium-234	7.84E+00	2.8E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
561	1	Uranium-235	1.37E+00	3.0E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
561	1	Uranium-238	1.07E+02	9.1E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
561	1	Vanadium	3.76E+01	<1.0E-06	20.2	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
561	2	Antimony	5.33E+00	<1.0E-06	0.2	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
561	2	Arsenic	1.30E+01	3.1E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
561	2	Beryllium	6.34E-01	3.7E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
561	2	Cesium-137	4.09E-01	3.5E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
561	2	Chromium	2.88E+02	7.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
561	2	Cobalt	1.14E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
561	2	Cobalt-60	2.76E-02	1.2E-06	<0.1	n/a	n/a	n/a	2.38E-02	2.38E-01	2.38E+00	pCi/g
561	2	PCB, Total	1.64E+01	1.0E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
561	2	Total PAH	4.43E-01	9.1E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
561	2	Uranium	1.38E+03	<1.0E-06	2.4	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
561	2	Uranium-234	4.06E+01	1.4E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
561	2	Uranium-235	7.09E+00	1.6E-05	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
561	2	Uranium-238	4.00E+02	3.4E-04	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
561	2	Vanadium	3.46E+01	<1.0E-06	18.5	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
562	1	Uranium	8.73E+01	<1.0E-06	0.2	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
562	1	Uranium-238	2.73E+00	2.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
562	2	PCB, Total	1.58E+00	9.7E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
562	2	Uranium-234	5.34E+01	1.9E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
562	2	Uranium-235	8.96E+00	2.0E-05	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
562	2	Uranium-238	5.81E+02	5.0E-04	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
562	3	PCB, Total	2.40E-01	1.5E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
562	3	Total PAH	2.20E-01	4.5E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
562	3	Uranium	5.89E+01	<1.0E-06	0.1	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
562	3	Uranium-238	1.09E+01	9.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
562	4	Chromium	4.67E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
562	4	Uranium-238	2.24E+00	1.9E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
562	5	Chromium	1.53E+02	3.8E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
562	5	PCB, Total	9.50E-01	5.9E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
562	5	Total PAH	7.05E-02	1.5E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
562	5	Uranium	2.08E+02	<1.0E-06	0.4	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
562	5	Uranium-234	8.57E+00	3.0E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
562	5	Uranium-235	9.50E-01	1.2E-06	<0.1	n/a	n/a	n/a	7.61E-01	7.61E+00	7.61E+01	pCi/g
562	5	Uranium-238	6.24E+01	5.3E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
563	1	Chromium	2.85E+02	7.0E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
563	1	PCB, Total	7.40E-01	4.6E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
563	1	Uranium-238	2.76E+00	2.4E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
563	2	Cesium-137	6.47E-01	5.6E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
563	2	Uranium-238	1.49E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
564	1	Arsenic	4.30E+01	1.0E-04	0.6	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
564	1	Beryllium	2.12E+00	1.2E-04	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
564	1	Cadmium	1.96E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
564	1	Cesium-137	6.20E-01	5.4E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
564	1	Chromium	7.49E+01	1.8E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
564	1	Iron	3.66E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
564	1	PCB, Total	1.93E+00	1.2E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
564	1	Thallium	2.36E+00	<1.0E-06	0.2	1.55E+00	1.55E+01	4.64E+01	n/a	n/a	n/a	mg/kg
564	1	Thorium-230	5.01E+00	2.3E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
564	1	Uranium	5.83E+01	<1.0E-06	0.1	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
564	1	Uranium-234	6.93E+00	2.4E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
564	1	Uranium-238	8.33E+00	7.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
564	1	Vanadium	8.06E+01	<1.0E-06	43.2	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
12	1	Arsenic	1.34E+01	3.2E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
12	1	Beryllium	6.72E+00	3.9E-04	0.1	5.32E+00	5.32E+01	1.60E+02	1.74E-02	1.74E-01	1.74E+00	mg/kg
12	1	Chromium	6.33E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
12	1	Cobalt	9.16E+00	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
12	1	Iron	3.01E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
12	1	Mercury	8.80E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
12	1	Nickel	7.74E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
12	1	PCB, Total	3.90E-01	2.4E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
12	1	Total PAH	1.70E-01	3.5E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
12	1	Uranium	3.76E+02	<1.0E-06	0.6	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
12	1	Uranium-234	1.50E+01	5.3E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
12	1	Uranium-235	1.53E+00	3.4E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
12	1	Uranium-238	6.68E+01	5.7E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
12	1	Vanadium	2.80E+01	<1.0E-06	15.0	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
13	1	PCB, Total	7.00E-01	4.3E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
13	4	Uranium-238	1.32E+00	1.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
13	5	Nickel	1.17E+02	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
13	5	PCB, Total	1.05E+00	6.5E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
13	5	Total PAH	6.65E-02	1.4E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
13	5	Uranium	1.19E+02	<1.0E-06	0.2	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
13	6	Uranium-238	1.32E+00	1.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
13	9	Neptunium-237	8.90E-01	2.7E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
13	9	Uranium-238	6.08E+00	5.2E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	1	Arsenic	1.10E+01	2.6E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	1	Chromium	6.36E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	1	Iron	1.89E+04	<1.0E-06	0.1	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
14	1	Nickel	1.40E+02	<1.0E-06	0.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	1	PCB, Total	5.00E-01	3.1E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	1	Silver	1.67E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
14	1	Technetium-99	4.06E+02	7.0E-06	<0.1	n/a	n/a	n/a	5.79E+01	5.79E+02	5.79E+03	pCi/g
14	1	Uranium	7.21E+01	<1.0E-06	0.1	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	1	Uranium-238	1.69E+00	1.4E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	2	Antimony	3.70E+00	<1.0E-06	0.1	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
14	2	Arsenic	1.45E+01	3.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	2	Beryllium	7.10E-01	4.1E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
14	2	Chromium	6.65E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	2	Iron	3.72E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
14	2	Neptunium-237	7.70E-01	2.4E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
14	2	Nickel	6.78E+02	<1.0E-06	1.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	2	PCB, Total	3.90E-01	2.4E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	2	Thorium-230	5.98E+00	2.7E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
14	2	Total PAH	3.38E-01	7.0E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
14	2	Uranium	2.93E+02	<1.0E-06	0.5	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	2	Uranium-234	3.24E+01	1.1E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
14	2	Uranium-235	2.00E+00	4.4E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
14	2	Uranium-238	5.61E+01	4.8E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	3	Arsenic	1.30E+01	3.1E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	3	Chromium	7.01E+01	1.7E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	3	Iron	3.48E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
14	3	Mercury	7.48E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
14	3	Nickel	5.76E+02	<1.0E-06	1.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	3	PCB, Total	8.65E+00	5.3E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	3	Uranium	2.18E+02	<1.0E-06	0.4	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	3	Uranium-238	1.50E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	4	Antimony	4.30E+00	<1.0E-06	0.2	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
14	4	Arsenic	1.33E+01	3.2E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	4	Chromium	7.20E+01	1.8E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	4	Iron	3.88E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
14	4	Neptunium-237	2.68E+00	8.2E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
14	4	Nickel	7.31E+02	<1.0E-06	1.4	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	4	PCB, Total	6.61E+00	4.1E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	4	Thorium-230	8.33E+00	3.8E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
14	4	Total PAH	2.51E-01	5.2E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
14	4	Uranium	3.72E+02	<1.0E-06	0.6	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	4	Uranium-234	1.13E+02	4.0E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
14	4	Uranium-235	8.00E+00	1.8E-05	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
14	4	Uranium-238	1.69E+02	1.4E-04	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	5	Arsenic	1.31E+01	3.2E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	5	Cadmium	3.90E+00	2.6E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
14	5	Chromium	4.70E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	5	Cobalt	1.40E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
14	5	Iron	3.92E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
14	5	Mercury	1.09E+01	<1.0E-06	1.0	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
14	5	Neptunium-237	1.74E+00	5.3E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
14	5	Nickel	4.61E+02	<1.0E-06	0.9	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	5	PCB, Total	1.00E+00	6.2E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	5	Technetium-99	1.01E+02	1.7E-06	<0.1	n/a	n/a	n/a	5.79E+01	5.79E+02	5.79E+03	pCi/g
14	5	Thorium-230	1.39E+01	6.3E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
14	5	Total PAH	1.21E-01	2.5E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
14	5	Uranium	2.62E+02	<1.0E-06	0.5	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	5	Uranium-234	5.22E+01	1.8E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
14	5	Uranium-235	3.33E+00	7.3E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
14	5	Uranium-238	9.42E+01	8.0E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	6	Antimony	2.70E+00	<1.0E-06	0.1	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
14	6	Chromium	4.46E+02	1.1E-05	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	6	Neptunium-237	2.65E+00	8.1E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
14	6	Nickel	9.63E+02	<1.0E-06	1.8	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	6	PCB, Total	5.00E+00	3.1E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	6	Uranium	5.79E+02	<1.0E-06	1.0	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	6	Uranium-234	3.41E+01	1.2E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
14	6	Uranium-235	2.27E+00	5.0E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
14	6	Uranium-238	5.08E+01	4.3E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	7	Arsenic	1.13E+01	2.7E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	7	Cadmium	2.70E+00	1.8E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
14	7	Chromium	6.46E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	7	Mercury	7.82E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
14	7	Neptunium-237	1.49E+00	4.5E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
14	7	Nickel	1.22E+03	<1.0E-06	2.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	7	PCB, Total	7.60E+00	4.7E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	7	Total PAH	6.31E-02	1.3E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
14	7	Uranium	3.33E+02	<1.0E-06	0.6	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	7	Uranium-234	1.28E+01	4.5E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
14	7	Uranium-235	9.60E-01	2.1E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
14	7	Uranium-238	2.13E+01	1.8E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	8	Arsenic	1.14E+01	2.7E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	8	Chromium	4.60E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	8	Mercury	7.90E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
14	8	Neptunium-237	8.80E-01	2.7E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
14	8	Nickel	6.73E+02	<1.0E-06	1.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	8	PCB, Total	5.00E+00	3.1E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	8	Total PAH	6.28E-02	1.3E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
14	8	Uranium	3.35E+02	<1.0E-06	0.6	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	8	Uranium-238	5.92E+00	5.0E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	9	Arsenic	1.40E+01	3.4E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	9	Cesium-137	4.53E-01	3.9E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
14	9	Chromium	4.64E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	9	Mercury	1.13E+00	<1.0E-06	0.1	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
14	9	Neptunium-237	1.09E+01	3.3E-05	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
14	9	Nickel	9.43E+02	<1.0E-06	1.8	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	9	PCB, Total	6.84E+00	4.2E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	9	Technetium-99	1.96E+02	3.4E-06	<0.1	n/a	n/a	n/a	5.79E+01	5.79E+02	5.79E+03	pCi/g
14	9	Total PAH	4.87E-01	1.0E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
14	9	Uranium	1.46E+03	<1.0E-06	2.5	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	9	Uranium-234	8.32E+02	2.9E-04	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
14	9	Uranium-235	5.46E+01	1.2E-04	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
14	9	Uranium-238	1.20E+03	1.0E-03	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	10	Arsenic	1.12E+01	2.7E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	10	Chromium	4.19E+01	1.0E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	10	Iron	2.75E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
14	10	Mercury	2.51E+01	<1.0E-06	2.3	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	10	Neptunium-237	2.64E+00	8.1E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
14	10	Nickel	6.00E+02	<1.0E-06	1.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	10	PCB, Total	9.38E+00	5.8E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	10	Total PAH	2.72E-01	5.6E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
14	10	Uranium	2.88E+02	<1.0E-06	0.5	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	10	Uranium-234	2.42E+01	8.6E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
14	10	Uranium-235	1.76E+00	3.9E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
14	10	Uranium-238	4.09E+01	3.5E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	1	Arsenic	1.24E+01	3.0E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	1	Chromium	5.61E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	1	Iron	2.95E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
15	1	Nickel	1.33E+02	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	1	Total PAH	1.71E+00	3.5E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	1	Uranium-238	1.85E+00	1.6E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	2	Arsenic	1.63E+01	3.9E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	2	Chromium	5.90E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	2	Iron	3.89E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
15	2	Mercury	9.33E+00	<1.0E-06	0.9	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
15	2	Nickel	1.97E+02	<1.0E-06	0.4	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	2	PCB, Total	3.30E-01	2.0E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
15	2	Total PAH	2.11E+00	4.3E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	2	Uranium	1.32E+02	<1.0E-06	0.2	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
15	2	Uranium-234	6.51E+00	2.3E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
15	2	Uranium-238	1.21E+01	1.0E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	3	Antimony	2.45E+01	<1.0E-06	0.9	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
15	3	Arsenic	2.60E+01	6.3E-05	0.4	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	3	Beryllium	7.60E-01	4.4E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
15	3	Cadmium	1.19E+01	7.8E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
15	3	Chromium	7.53E+01	1.8E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	3	Cobalt	3.41E+01	<1.0E-06	0.6	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
15	3	Copper	1.40E+03	<1.0E-06	0.2	7.73E+02	7.73E+03	2.32E+04	n/a	n/a	n/a	mg/kg
15	3	Iron	9.20E+04	<1.0E-06	0.7	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
15	3	Lead	3.79E+02									mg/kg
15	3	Mercury	2.74E+00	<1.0E-06	0.3	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
15	3	Neptunium-237	4.10E+00	1.3E-05	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	3	Nickel	7.57E+02	<1.0E-06	1.4	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	3	PCB, Total	6.82E+00	4.2E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
15	3	Technetium-99	3.67E+02	6.3E-06	<0.1	n/a	n/a	n/a	5.79E+01	5.79E+02	5.79E+03	pCi/g
15	3	Thorium-230	7.23E+00	3.3E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
15	3	Total PAH	1.45E+00	3.0E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	3	Uranium	2.16E+02	<1.0E-06	0.4	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
15	3	Uranium-234	6.96E+01	2.5E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
15	3	Uranium-235	4.21E+00	9.3E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
15	3	Uranium-238	9.67E+01	8.2E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	4	Antimony	7.40E+00	<1.0E-06	0.3	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
15	4	Arsenic	3.47E+01	8.4E-05	0.5	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	4	Chromium	1.02E+02	2.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	4	Iron	7.81E+04	<1.0E-06	0.6	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
15	4	Lead	5.12E+02									mg/kg
15	4	Mercury	1.41E+01	<1.0E-06	1.3	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
15	4	Neptunium-237	8.00E-01	2.4E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
15	4	Nickel	1.37E+03	<1.0E-06	2.6	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	4	PCB, Total	2.67E+01	1.6E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
15	4	Silver	1.46E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
15	4	Total PAH	2.44E+00	5.0E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	4	Uranium	1.57E+02	<1.0E-06	0.3	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
15	4	Uranium-234	1.07E+01	3.8E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
15	4	Uranium-238	1.87E+01	1.6E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	5	Antimony	3.10E+00	<1.0E-06	0.1	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
15	5	Arsenic	1.28E+01	3.1E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	5	Chromium	4.28E+01	1.0E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	5	Copper	5.63E+03	<1.0E-06	0.7	7.73E+02	7.73E+03	2.32E+04	n/a	n/a	n/a	mg/kg
15	5	Neptunium-237	6.90E-01	2.1E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
15	5	Nickel	5.10E+02	<1.0E-06	1.0	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	5	PCB, Total	2.51E+01	1.5E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
15	5	Silver	1.46E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
15	5	Technetium-99	1.07E+02	1.8E-06	<0.1	n/a	n/a	n/a	5.79E+01	5.79E+02	5.79E+03	pCi/g
15	5	Total PAH	5.11E-01	1.1E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	5	Uranium	2.13E+02	<1.0E-06	0.4	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
15	5	Uranium-234	5.83E+00	2.1E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	5	Uranium-235	4.60E-01	1.0E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
15	5	Uranium-238	1.03E+01	8.8E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	6	Antimony	5.10E+00	<1.0E-06	0.2	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
15	6	Arsenic	1.24E+01	3.0E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	6	Chromium	5.80E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	6	Cobalt	1.62E+01	<1.0E-06	0.3	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
15	6	Iron	3.15E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
15	6	Neptunium-237	6.40E-01	2.0E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
15	6	Nickel	3.24E+02	<1.0E-06	0.6	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	6	PCB, Total	6.17E+00	3.8E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
15	6	Total PAH	1.62E+00	3.3E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	6	Uranium	6.70E+01	<1.0E-06	0.1	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
15	6	Uranium-234	8.74E+00	3.1E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
15	6	Uranium-235	5.70E-01	1.3E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
15	6	Uranium-238	1.54E+01	1.3E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	7	Arsenic	1.61E+01	3.9E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	7	Chromium	7.87E+01	1.9E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	7	Iron	3.42E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
15	7	Nickel	5.59E+02	<1.0E-06	1.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	7	PCB, Total	2.57E+01	1.6E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
15	7	Total PAH	1.59E-01	3.3E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	7	Uranium-234	6.49E+00	2.3E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
15	7	Uranium-238	8.05E+00	6.9E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	8	Antimony	5.40E+00	<1.0E-06	0.2	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
15	8	Arsenic	1.17E+01	2.8E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	8	Chromium	7.74E+01	1.9E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	8	Iron	2.83E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
15	8	Mercury	1.00E+01	<1.0E-06	0.9	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
15	8	Neptunium-237	3.65E-01	1.1E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
15	8	Nickel	1.82E+02	<1.0E-06	0.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	8	PCB, Total	4.90E+00	3.0E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
15	8	Silver	1.36E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
15	8	Total PAH	3.59E-01	7.4E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	8	Uranium-238	6.64E+00	5.7E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	9	Arsenic	1.10E+01	2.7E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	9	Chromium	9.56E+01	2.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	9	Iron	2.76E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
15	9	Nickel	1.49E+02	<1.0E-06	0.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	9	PCB, Total	3.30E-01	2.0E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
15	9	Silver	1.54E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
15	9	Total PAH	2.38E-01	4.9E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	9	Uranium-238	7.12E+00	6.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	10	Mercury	7.84E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
15	10	Nickel	1.46E+02	<1.0E-06	0.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	10	Total PAH	1.28E-01	2.6E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	10	Uranium	6.47E+01	<1.0E-06	0.1	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
16	1	Cesium-137	1.10E+00	9.5E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
16	2	Beryllium	8.40E-01	4.8E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
16	3	PCB, Total	9.49E-01	5.9E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
16	4	Cesium-137	3.66E+01	3.2E-04	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
16	4	Neptunium-237	7.12E+00	2.2E-05	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
16	4	PCB, Total	3.20E-01	2.0E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
16	4	Technetium-99	2.96E+02	5.1E-06	<0.1	n/a	n/a	n/a	5.79E+01	5.79E+02	5.79E+03	pCi/g
16	4	Thorium-230	5.29E+00	2.4E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
16	4	Total PAH	2.93E+00	6.0E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
16	4	Uranium-234	1.19E+02	4.2E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
16	4	Uranium-235	8.23E+00	1.8E-05	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
16	4	Uranium-238	2.70E+02	2.3E-04	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
518	1	Cobalt	6.80E+00	<1.0E-06	0.1	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
518	1	PCB, Total	6.30E-01	3.9E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
518	1	Total PAH	4.64E+00	9.6E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
518	1	Uranium	2.17E+02	<1.0E-06	0.4	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
518	1	Uranium-238	1.51E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
520	1	Cesium-137	9.62E-01	8.3E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
520	1	Iron	1.56E+04	<1.0E-06	0.1	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
520	1	Mercury	1.07E+01	<1.0E-06	1.0	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
520	1	Neptunium-237	6.56E-01	2.0E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
520	1	Nickel	2.60E+02	<1.0E-06	0.5	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
520	1	Thorium-230	1.13E+01	5.2E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
520	1	Uranium-238	3.93E+00	3.4E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
520	2	Beryllium	5.79E-01	3.3E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
520	2	Chromium	6.67E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
520	2	Mercury	1.19E+01	<1.0E-06	1.1	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
520	2	Nickel	3.11E+02	<1.0E-06	0.6	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
520	2	Total PAH	3.17E-01	6.5E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
520	2	Uranium-238	1.78E+00	1.5E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
520	3	Nickel	2.65E+02	<1.0E-06	0.5	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
520	3	Total PAH	1.18E-01	2.4E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
520	3	Uranium-238	1.57E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
520	4	Mercury	9.69E+00	<1.0E-06	0.9	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
520	4	Neptunium-237	7.40E-01	2.3E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
520	4	Nickel	2.82E+02	<1.0E-06	0.5	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
520	4	Total PAH	5.52E-01	1.1E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
520	4	Uranium-238	6.26E+00	5.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
520	5	Nickel	1.47E+02	<1.0E-06	0.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
520	5	Total PAH	3.87E-01	8.0E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
520	5	Uranium-238	1.45E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
74	1	PCB, Total	2.97E+00	1.8E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
74	1	Total PAH	3.16E+00	6.5E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
74	1	Uranium-234	7.55E+00	2.7E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
74	1	Uranium-238	3.85E+01	3.3E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
75	1	Chromium	7.17E+01	1.8E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
75	1	Nickel	8.87E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
75	1	PCB, Total	2.30E-01	1.4E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
75	1	Total PAH	2.21E-01	4.6E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
78	1	Cadmium	2.36E+00	1.6E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
78	1	Naphthalene	1.60E+01	5.3E-06	0.2	1.03E+01	1.03E+02	3.10E+02	3.02E+00	3.02E+01	3.02E+02	mg/kg
78	1	PCB, Total	1.20E+01	7.4E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
78	1	Total PAH	3.91E+01	8.1E-04	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
78	1	Uranium-238	5.29E+00	4.5E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
80	1	Americium-241	6.40E+00	3.7E-06	<0.1	n/a	n/a	n/a	1.73E+00	1.73E+01	1.73E+02	pCi/g
80	1	Beryllium	7.80E-01	4.5E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
80	1	Chromium	1.65E+02	4.0E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
80	1	Neptunium-237	5.05E-01	1.5E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
80	1	PCB, Total	1.46E+01	9.0E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
80	1	Thorium-230	4.40E+00	2.0E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
80	1	Total PAH	1.42E-01	2.9E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
80	1	Uranium	5.72E+03	<1.0E-06	9.9	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
80	1	Uranium-234	2.29E+02	8.1E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
80	1	Uranium-235	3.00E+01	6.6E-05	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
80	1	Uranium-238	1.92E+03	1.6E-03	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
81	1	Arsenic	1.03E+01	2.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
81	1	Beryllium	7.57E-01	4.4E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
81	1	Chromium	8.62E+01	2.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
81	1	Mercury	8.33E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
81	1	Nickel	7.29E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
81	1	PCB, Total	1.60E+02	9.9E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
81	1	Total PAH	5.53E-01	1.1E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
81	1	Uranium	6.50E+03	<1.0E-06	11.2	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
81	1	Uranium-238	2.29E+00	1.9E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
153	1	PCB, Total	5.09E-01	3.1E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
153	1	Total PAH	8.69E-02	1.8E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
154	1	Arsenic	1.52E+01	3.7E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
154	1	Chromium	4.28E+01	1.0E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
154	1	Nickel	9.89E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
154	1	PCB, Total	3.20E+00	2.0E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
154	1	Total PAH	1.04E+00	2.1E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
154	1	Uranium-238	3.06E+00	2.6E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
154	2	PCB, Total	4.00E-01	2.5E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
155	1	Antimony	3.65E+00	<1.0E-06	0.1	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
155	1	Nickel	7.65E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
155	1	PCB, Total	9.20E+00	5.7E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
156	1	Chromium	4.90E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
156	1	Manganese	2.83E+03	<1.0E-06	0.1	1.97E+03	1.97E+04	5.90E+04	n/a	n/a	n/a	mg/kg
156	1	Mercury	9.87E+00	<1.0E-06	0.9	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
156	1	Nickel	6.16E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
156	1	PCB, Total	3.00E-01	1.9E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
156	1	Total PAH	8.26E-02	1.7E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
156	1	Uranium-238	2.19E+00	1.9E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
160	1	Total PAH	5.29E-02	1.1E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Surface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
163	1	Chromium	4.94E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
163	1	Total PAH	1.63E-01	3.4E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
219	1	Neptunium-237	3.31E-01	1.0E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
219	1	Nickel	6.71E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
219	1	Total PAH	7.50E-02	1.5E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
219	1	Uranium-238	4.40E+00	3.8E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
488	1	Cesium-137	5.20E-01	4.5E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
488	1	PCB, Total	1.03E+01	6.4E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
488	1	Total PAH	2.50E-01	5.1E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
488	1	Uranium-238	4.54E+00	3.9E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
1	1	Arsenic	6.74E+00	1.6E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
1	1	Beryllium	3.37E+00	1.9E-04	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
1	1	Cadmium	1.83E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
1	1	Cesium-137	5.91E-01	5.1E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
1	1	Cobalt	1.05E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
1	1	Neptunium-237	4.02E-01	1.2E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
1	1	Plutonium-239/240	6.14E+00	3.8E-06	<0.1	n/a	n/a	n/a	1.62E+00	1.62E+01	1.62E+02	pCi/g
1	1	Thorium-230	4.40E+01	2.0E-05	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
1	1	Trichloroethene	6.90E-01	1.1E-05	<0.1	n/a	n/a	n/a	6.21E-02	6.21E-01	6.21E+00	mg/kg
1	1	Uranium-238	1.97E+00	1.7E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
1	1	Vanadium	3.29E+01	<1.0E-06	17.6	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
1	2	Arsenic	7.82E+00	1.9E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
1	2	Beryllium	5.07E+00	2.9E-04	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
1	2	Cadmium	3.74E+00	2.5E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
1	2	Chromium	1.26E+02	3.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
1	2	cis-1,2-Dichloroethene	2.40E+03	<1.0E-06	41.2	5.83E+00	5.83E+01	1.75E+02	n/a	n/a	n/a	mg/kg
1	2	Mercury	7.06E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
1	2	PCB, Total	1.47E+01	9.1E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
1	2	Silver	7.39E+01	<1.0E-06	0.6	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
1	2	Trichloroethene	6.48E+01	1.0E-03	3.3	1.95E+00	1.95E+01	5.86E+01	6.21E-02	6.21E-01	6.21E+00	mg/kg
1	2	Vanadium	3.22E+01	<1.0E-06	17.2	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
1	2	Vinyl chloride	4.47E+00	2.0E-05	<0.1	n/a	n/a	n/a	2.26E-01	2.26E+00	2.26E+01	mg/kg
1	3	Arsenic	6.24E+00	1.5E-05	<0.1	n/a	n/a	n/a	4.15E-01	4.15E+00	4.15E+01	mg/kg
1	3	Cadmium	3.32E+00	2.2E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
1	3	PCB, Total	2.08E-01	1.3E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
1	3	Uranium-238	1.73E+00	1.5E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
1	4	Beryllium	7.52E-01	4.3E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
1	4	Cadmium	2.09E+00	1.4E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
1	4	Cesium-137	3.37E-01	2.9E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
1	4	Chromium	7.09E+01	1.7E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
1	4	Thorium-230	5.03E+00	2.3E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
1	4	Trichloroethene	1.90E-01	3.1E-06	<0.1	n/a	n/a	n/a	6.21E-02	6.21E-01	6.21E+00	mg/kg
1	4	Vanadium	2.87E+01	<1.0E-06	15.4	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
1	5	Arsenic	1.67E+01	4.0E-05	0.3	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
1	5	Beryllium	8.30E+00	4.8E-04	0.2	5.32E+00	5.32E+01	1.60E+02	1.74E-02	1.74E-01	1.74E+00	mg/kg
1	5	Cadmium	2.97E+00	2.0E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
1	5	Cobalt	1.43E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
1	5	Manganese	2.16E+03	<1.0E-06	0.1	1.97E+03	1.97E+04	5.90E+04	n/a	n/a	n/a	mg/kg
1	5	PCB, Total	2.70E-01	1.7E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
1	5	Total PAH	9.83E-02	2.0E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
99	1	Arsenic	9.94E+00	2.4E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
99	1	Beryllium	7.22E-01	4.2E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
99	1	Chromium	6.29E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
99	1	Mercury	9.53E+00	<1.0E-06	0.9	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
99	1	Nickel	8.52E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
99	2	Chromium	4.57E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	1	Arsenic	1.02E+01	2.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	1	Beryllium	5.96E-01	3.4E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	1	Chromium	5.11E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	1	Mercury	6.71E+00	<1.0E-06	0.6	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	1	Nickel	6.12E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	1	Vanadium	3.74E+01	<1.0E-06	20.1	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
194	2	Arsenic	1.02E+01	2.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	2	Beryllium	6.96E-01	4.0E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	2	Chromium	5.96E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	2	Mercury	6.90E+00	<1.0E-06	0.6	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	2	Silver	1.39E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
194	2	Uranium-238	1.24E+00	1.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
194	2	Vanadium	3.55E+01	<1.0E-06	19.0	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
194	3	Arsenic	1.44E+01	3.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	3	Cesium-137	2.35E-01	2.0E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
194	3	Chromium	4.98E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	3	Nickel	6.32E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	4	Arsenic	1.02E+01	2.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	4	Beryllium	5.87E-01	3.4E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	4	Cesium-137	1.44E-01	1.2E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
194	4	Chromium	5.59E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	4	Iron	1.83E+04	<1.0E-06	0.1	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
194	4	Mercury	8.92E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	4	Nickel	8.15E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	4	Vanadium	3.07E+01	<1.0E-06	16.4	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
194	5	Arsenic	9.71E+00	2.3E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	5	Beryllium	6.26E-01	3.6E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	5	Chromium	5.54E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	5	Mercury	8.69E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	5	Nickel	7.56E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	5	Total PAH	4.50E-01	9.3E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
194	5	Vanadium	3.19E+01	<1.0E-06	17.1	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
194	6	Nickel	6.98E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	7	Arsenic	1.02E+01	2.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	7	Chromium	5.32E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	7	Nickel	7.71E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	8	Arsenic	1.09E+01	2.6E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	8	Cesium-137	2.78E-01	2.4E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
194	8	Chromium	6.09E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	8	Cobalt	1.33E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
194	8	Nickel	6.01E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	8	Total PAH	3.74E-01	7.7E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
194	8	Uranium-238	1.18E+00	1.0E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
194	9	Arsenic	9.77E+00	2.4E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	9	Chromium	4.48E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	9	Nickel	5.98E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	10	Arsenic	1.10E+01	2.7E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	10	Cesium-137	5.81E-01	5.0E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
194	10	Chromium	5.00E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	10	Mercury	8.07E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	10	Nickel	7.60E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	10	Total PAH	2.57E-01	5.3E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
194	10	Uranium-238	1.49E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
194	11	Arsenic	1.08E+01	2.6E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	11	Chromium	5.66E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	11	Mercury	8.09E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	11	Nickel	1.01E+02	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	11	Total PAH	7.95E-02	1.6E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
194	12	Arsenic	9.18E+00	2.2E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	12	Chromium	6.34E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	12	Nickel	7.86E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	12	Silver	1.54E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
194	12	Total PAH	7.07E-01	1.5E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
194	13	Arsenic	9.90E+00	2.4E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	13	Chromium	6.25E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	13	Nickel	6.80E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	13	Total PAH	6.73E-02	1.4E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
194	14	Arsenic	1.09E+01	2.6E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	14	Chromium	6.09E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	14	Mercury	8.94E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	14	Nickel	7.09E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	14	Vanadium	3.51E+01	<1.0E-06	18.8	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
194	15	Arsenic	8.95E+00	2.2E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	15	Chromium	6.06E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	15	Nickel	7.98E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	16	Arsenic	1.09E+01	2.6E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	16	Beryllium	6.46E-01	3.7E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	16	Chromium	5.32E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	16	Nickel	8.59E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	16	Vanadium	3.24E+01	<1.0E-06	17.4	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
194	17	Arsenic	1.12E+01	2.7E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	17	Cesium-137	2.53E-01	2.2E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
194	17	Chromium	5.45E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	17	Nickel	6.94E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	17	Total PAH	1.04E-01	2.1E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
194	18	Arsenic	1.19E+01	2.9E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	18	Beryllium	7.21E-01	4.2E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	18	Chromium	6.85E+01	1.7E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	18	Iron	2.10E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	18	Nickel	9.80E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	18	Vanadium	3.90E+01	<1.0E-06	20.9	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
194	19	Arsenic	9.96E+00	2.4E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	19	Chromium	4.84E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	19	Nickel	6.83E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	20	Arsenic	1.14E+01	2.8E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	20	Beryllium	8.66E-01	5.0E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	20	Chromium	7.11E+01	1.7E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	20	Cobalt	1.48E+01	<1.0E-06	0.3	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
194	20	Manganese	2.33E+03	<1.0E-06	0.1	1.97E+03	1.97E+04	5.90E+04	n/a	n/a	n/a	mg/kg
194	20	Mercury	7.28E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	20	Nickel	6.57E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	20	Vanadium	3.29E+01	<1.0E-06	17.6	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
194	21	Arsenic	3.52E+01	8.5E-05	0.5	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	21	Barium	2.96E+03	<1.0E-06	0.4	7.11E+02	7.11E+03	2.13E+04	n/a	n/a	n/a	mg/kg
194	21	Beryllium	1.80E+00	1.0E-04	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	21	Chromium	5.51E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	21	Cobalt	8.31E+01	<1.0E-06	1.4	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
194	21	Iron	4.73E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
194	21	Manganese	3.11E+04	<1.0E-06	1.6	1.97E+03	1.97E+04	5.90E+04	n/a	n/a	n/a	mg/kg
194	21	Mercury	6.62E+00	<1.0E-06	0.6	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	21	Nickel	7.01E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	21	Vanadium	8.63E+01	<1.0E-06	46.2	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
194	22	Arsenic	1.15E+01	2.8E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	22	Cesium-137	1.62E-01	1.4E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
194	22	Chromium	4.75E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	22	Cobalt	1.08E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
194	22	Nickel	7.08E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	22	PCB, Total	1.04E+01	6.4E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
194	23	Arsenic	1.12E+01	2.7E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	23	Cadmium	6.58E+00	4.3E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
194	23	Cesium-137	2.83E-01	2.5E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
194	23	Chromium	5.90E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	23	Iron	1.94E+04	<1.0E-06	0.1	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	23	Mercury	7.75E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	23	Nickel	7.33E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	24	Arsenic	1.19E+01	2.9E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	24	Beryllium	6.50E-01	3.7E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	24	Cesium-137	2.13E-01	1.8E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
194	24	Chromium	4.67E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	24	Iron	2.31E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
194	24	Mercury	7.03E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	24	Nickel	8.41E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	25	Arsenic	1.05E+01	2.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	25	Beryllium	8.30E-01	4.8E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	25	Chromium	5.23E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	25	Nickel	6.33E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	26	Arsenic	9.09E+00	2.2E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	26	Beryllium	7.31E-01	4.2E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	26	Chromium	4.81E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	26	Cobalt	1.34E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
194	26	Vanadium	3.84E+01	<1.0E-06	20.6	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
194	27	Arsenic	1.07E+01	2.6E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	27	Chromium	5.16E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	27	Nickel	6.55E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	28	Arsenic	1.13E+01	2.7E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	28	Beryllium	7.41E-01	4.3E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	28	Chromium	6.36E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	28	Nickel	6.89E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	28	Silver	1.52E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
194	28	Vanadium	3.85E+01	<1.0E-06	20.6	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
194	29	Arsenic	1.43E+01	3.4E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	29	Beryllium	8.20E-01	4.7E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	29	Chromium	5.76E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	29	Cobalt	1.41E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
194	29	Manganese	2.65E+03	<1.0E-06	0.1	1.97E+03	1.97E+04	5.90E+04	n/a	n/a	n/a	mg/kg
194	29	Nickel	8.47E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	29	Vanadium	4.12E+01	<1.0E-06	22.1	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	30	Arsenic	9.44E+00	2.3E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
194	30	Beryllium	3.16E+00	1.8E-04	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
194	30	Chromium	5.70E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
194	30	Mercury	8.80E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
194	30	Nickel	6.99E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
194	30	Vanadium	2.79E+01	<1.0E-06	14.9	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
194	31	Cesium-137	5.70E-01	4.9E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
194	31	Uranium-238	1.72E+00	1.5E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
196	1	Antimony	1.21E+02	<1.0E-06	4.5	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
196	1	Arsenic	1.05E+01	2.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
196	1	Beryllium	1.13E+02	6.5E-03	2.1	5.32E+00	5.32E+01	1.60E+02	1.74E-02	1.74E-01	1.74E+00	mg/kg
196	1	Cadmium	1.16E+02	7.6E-05	0.6	2.03E+01	2.03E+02	6.10E+02	1.52E+00	1.52E+01	1.52E+02	mg/kg
196	1	Chromium	1.12E+02	2.7E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
196	1	Cobalt	1.12E+02	<1.0E-06	1.9	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
196	1	Iron	2.96E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
196	1	Manganese	1.98E+03	<1.0E-06	0.1	1.97E+03	1.97E+04	5.90E+04	n/a	n/a	n/a	mg/kg
196	1	Nickel	5.87E+02	<1.0E-06	1.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
196	1	Silver	6.54E+01	<1.0E-06	0.5	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
196	1	Thallium	1.14E+02	<1.0E-06	7.4	1.55E+00	1.55E+01	4.64E+01	n/a	n/a	n/a	mg/kg
196	1	Uranium-238	1.54E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
196	1	Vanadium	4.38E+01	<1.0E-06	23.5	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
196	2	Antimony	6.22E+01	<1.0E-06	2.3	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
196	2	Arsenic	9.40E+00	2.3E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
196	2	Cadmium	4.42E+00	2.9E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
196	2	Nickel	8.01E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
196	2	PCB, Total	1.51E+00	9.3E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
196	2	Total PAH	9.04E+00	1.9E-04	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
196	2	Uranium-238	2.21E+00	1.9E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
211	1	Arsenic	1.00E+01	2.4E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
211	1	Beryllium	8.50E-01	4.9E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
211	1	Chromium	4.84E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
211	1	Cobalt	4.95E+01	<1.0E-06	0.9	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
211	1	Nickel	8.87E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
211	1	PCB, Total	1.40E+02	8.6E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
211	1	Total PAH	1.04E-01	2.1E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
211	1	Uranium-234	8.06E+00	2.8E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
211	1	Uranium-235	5.80E-01	1.3E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
211	1	Uranium-238	1.59E+01	1.4E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
483	1	Arsenic	1.25E+01	3.0E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
483	1	Nickel	1.17E+02	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
489	1	Arsenic	1.00E+01	2.4E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
489	1	Nickel	7.88E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
489	1	Total PAH	8.22E-02	1.7E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
489	1	Uranium-238	1.47E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
531	1	Arsenic	4.68E+01	1.1E-04	0.7	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
531	1	Cadmium	3.10E+00	2.0E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
531	1	Chromium	5.33E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
531	1	Iron	5.68E+04	<1.0E-06	0.4	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
531	1	Lead	5.31E+02									mg/kg
531	1	Nickel	1.62E+02	<1.0E-06	0.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
531	1	Total PAH	5.34E-02	1.1E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
531	1	Uranium-238	3.48E+00	3.0E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
47	1	Arsenic	4.52E+01	1.1E-04	0.7	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
47	1	Beryllium	7.00E-01	4.0E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
47	1	Cadmium	1.28E+01	8.4E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
47	1	Chromium	5.39E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
47	1	Cobalt	1.69E+01	<1.0E-06	0.3	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
47	1	Iron	2.95E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
47	1	Nickel	8.25E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
47	1	PCB, Total	9.60E-01	5.9E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
47	1	Plutonium-239/240	4.19E+00	2.6E-06	<0.1	n/a	n/a	n/a	1.62E+00	1.62E+01	1.62E+02	pCi/g
47	1	Thorium-230	5.45E+01	2.5E-05	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
47	1	Total PAH	5.41E+01	1.1E-03	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
47	1	Trichloroethene	1.40E+00	2.3E-05	<0.1	n/a	n/a	n/a	6.21E-02	6.21E-01	6.21E+00	mg/kg
47	1	Uranium-234	8.10E+00	2.9E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
47	1	Uranium-235	5.00E-01	1.1E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
47	1	Uranium-238	8.21E+00	7.0E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
200	1	Arsenic	9.73E+00	2.3E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
200	1	Cesium-137	4.68E-01	4.1E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
200	1	Chromium	6.19E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
200	1	Mercury	6.93E+00	<1.0E-06	0.6	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
200	1	Nickel	1.26E+02	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
200	1	PCB, Total	2.60E+00	1.6E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
200	1	Uranium-238	2.79E+00	2.4E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
212	1	Arsenic	1.44E+01	3.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
212	1	Beryllium	8.90E-01	5.1E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
212	1	Cesium-137	6.01E-01	5.2E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
212	1	Chromium	6.66E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
212	1	Cobalt	1.76E+01	<1.0E-06	0.3	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
212	1	Iron	4.14E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
212	1	Mercury	6.94E+00	<1.0E-06	0.6	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
212	1	Neptunium-237	4.00E+00	1.2E-05	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
212	1	Nickel	8.69E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
212	1	PCB, Total	1.80E-01	1.1E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
212	1	Plutonium-239/240	6.71E+00	4.1E-06	<0.1	n/a	n/a	n/a	1.62E+00	1.62E+01	1.62E+02	pCi/g
212	1	Silver	1.55E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
212	1	Thorium-230	2.60E+02	1.2E-04	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
212	1	Uranium-238	3.17E+00	2.7E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
212	1	Vanadium	5.33E+01	<1.0E-06	28.6	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
213	1	Arsenic	9.21E+00	2.2E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
213	1	Chromium	5.47E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
213	1	Nickel	6.67E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
213	1	Total PAH	1.72E-01	3.5E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
213	1	Uranium-238	2.33E+00	2.0E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
213	2	Chromium	6.77E+01	1.7E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
213	2	Manganese	2.10E+03	<1.0E-06	0.1	1.97E+03	1.97E+04	5.90E+04	n/a	n/a	n/a	mg/kg
213	2	Nickel	9.10E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
214	1	Arsenic	1.15E+01	2.8E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
215	1	Arsenic	1.02E+01	2.4E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
215	1	Chromium	5.73E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
215	1	Iron	3.87E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
215	1	Nickel	7.32E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
215	1	Total PAH	5.00E-01	1.0E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
216	1	Arsenic	8.60E+00	2.1E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
216	1	Cesium-137	4.10E-01	3.6E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
216	1	Total PAH	1.49E-01	3.1E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
216	1	Uranium-238	1.33E+00	1.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
217	1	Arsenic	9.42E+00	2.3E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
217	1	Chromium	6.53E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
217	1	Cobalt	1.64E+01	<1.0E-06	0.3	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
217	1	Mercury	7.37E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
217	1	Nickel	8.71E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
217	1	Silver	1.35E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
217	1	Vanadium	3.00E+01	<1.0E-06	16.1	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
217	2	1,1-Dichloroethene	1.88E-02									mg/kg
217	2	Antimony	3.10E+00	<1.0E-06	0.1	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
217	2	Arsenic	9.97E+00	2.4E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
217	2	Beryllium	5.85E-01	3.4E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
217	2	Chromium	6.61E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
217	2	Cobalt	8.29E+01	<1.0E-06	1.4	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
217	2	Iron	3.04E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
217	2	Mercury	9.20E+00	<1.0E-06	0.9	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
217	2	Nickel	7.88E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
217	2	Silver	1.61E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
217	2	Total PAH	4.06E-01	8.4E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
217	2	Vanadium	2.87E+01	<1.0E-06	15.4	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
221	1	Aluminum	2.36E+04	<1.0E-06	0.1	1.87E+04	1.87E+05	5.62E+05	n/a	n/a	n/a	mg/kg
221	1	Arsenic	1.24E+01	3.0E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
221	1	Barium	8.64E+02	<1.0E-06	0.1	7.11E+02	7.11E+03	2.13E+04	n/a	n/a	n/a	mg/kg
221	1	Beryllium	1.55E+00	8.9E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
221	1	Chromium	6.57E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
221	1	Cobalt	7.22E+01	<1.0E-06	1.3	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
221	1	Iron	3.86E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
221	1	Manganese	4.39E+03	<1.0E-06	0.2	1.97E+03	1.97E+04	5.90E+04	n/a	n/a	n/a	mg/kg
221	1	Mercury	1.23E+01	<1.0E-06	1.1	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
221	1	Nickel	9.46E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
221	1	PCB, Total	5.00E-01	3.1E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
221	1	Total PAH	1.02E+00	2.1E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
221	1	Uranium-238	1.93E+00	1.6E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
221	1	Vanadium	5.36E+01	<1.0E-06	28.7	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
222	1	Arsenic	1.02E+01	2.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
222	1	Cesium-137	2.99E-01	2.6E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
222	1	Chromium	6.48E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
222	1	Nickel	9.19E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
222	1	PCB, Total	9.67E-01	6.0E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
222	1	Total PAH	1.77E-01	3.7E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
222	1	Uranium-234	7.04E+00	2.5E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
222	1	Uranium-235	7.10E-01	1.6E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
222	1	Uranium-238	1.54E+01	1.3E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
224	1	Arsenic	1.20E+01	2.9E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
224	1	Cesium-137	3.70E-01	3.2E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
224	1	Chromium	6.50E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
224	1	Mercury	6.89E+00	<1.0E-06	0.6	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
224	1	Nickel	1.08E+02	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
224	1	PCB, Total	4.75E+02	2.9E-03	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
224	1	Total PAH	4.53E+01	9.3E-04	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
224	1	Uranium-238	2.64E+01	2.3E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
225	1	Arsenic	8.10E+00	2.0E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
225	1	Cesium-137	4.17E-01	3.6E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
225	1	Total PAH	7.79E-02	1.6E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
225	1	Uranium-238	2.04E+00	1.7E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
226	1	Arsenic	7.94E+00	1.9E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
226	1	Beryllium	5.44E-01	3.1E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
226	1	Cesium-137	2.33E+00	2.0E-05	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
226	1	Chromium	6.39E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
226	1	Cobalt	7.70E+00	<1.0E-06	0.1	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
226	1	Mercury	9.74E+00	<1.0E-06	0.9	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
226	1	Neptunium-237	1.41E+02	4.3E-04	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
226	1	Nickel	2.18E+02	<1.0E-06	0.4	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
226	1	PCB, Total	4.13E+00	2.5E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
226	1	Plutonium-238	1.88E+00	1.1E-06	<0.1	n/a	n/a	n/a	1.64E+00	1.64E+01	1.64E+02	pCi/g
226	1	Plutonium-239/240	5.75E+00	3.6E-06	<0.1	n/a	n/a	n/a	1.62E+00	1.62E+01	1.62E+02	pCi/g
226	1	Thorium-230	4.21E+01	1.9E-05	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
226	1	Total PAH	9.19E-02	1.9E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
226	1	Uranium	4.38E+02	<1.0E-06	0.8	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
226	1	Uranium-234	2.44E+01	8.6E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
226	1	Uranium-235	1.26E+00	2.8E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
226	1	Uranium-238	2.48E+01	2.1E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
227	1	Arsenic	8.46E+00	2.0E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
227	1	Beryllium	5.50E-01	3.2E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
227	1	Cesium-137	1.67E-01	1.4E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
227	1	Chromium	5.34E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
227	1	Neptunium-237	7.95E-01	2.4E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
227	1	Nickel	1.99E+02	<1.0E-06	0.4	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
227	1	PCB, Total	3.94E+00	2.4E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
227	1	Total PAH	3.38E-01	7.0E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
227	1	Uranium	1.02E+02	<1.0E-06	0.2	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
227	1	Uranium-234	1.40E+01	4.9E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
227	1	Uranium-235	1.35E+00	3.0E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
227	1	Uranium-238	4.18E+01	3.6E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
227	2	Arsenic	8.34E+00	2.0E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
227	2	Beryllium	5.63E-01	3.2E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
227	2	Chromium	4.55E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
227	2	Cobalt	1.06E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
227	2	Mercury	8.32E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
227	2	Nickel	1.23E+02	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
227	2	PCB, Total	4.75E+00	2.9E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
227	2	Total PAH	1.16E-01	2.4E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
227	2	Uranium-238	1.57E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
227	2	Vanadium	2.46E+01	<1.0E-06	13.2	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
228	1	Arsenic	2.79E+01	6.7E-05	0.4	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
228	1	Beryllium	7.50E-01	4.3E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
228	1	Cadmium	3.90E+00	2.6E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
228	1	Chromium	1.89E+02	4.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
228	1	Iron	3.77E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
228	1	Mercury	9.37E+00	<1.0E-06	0.9	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
228	1	Neptunium-237	8.00E-01	2.4E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
228	1	Nickel	7.92E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
228	1	Total PAH	6.69E-02	1.4E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
228	1	Uranium-238	3.77E+00	3.2E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
229	1	Arsenic	1.17E+01	2.8E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
229	1	Chromium	4.76E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
229	1	Mercury	9.27E+00	<1.0E-06	0.9	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
229	1	Nickel	9.14E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
229	1	Total PAH	1.57E-01	3.2E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
229	1	Uranium	1.56E+02	<1.0E-06	0.3	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
229	1	Uranium-238	2.86E+00	2.4E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
229	2	Arsenic	2.12E+01	5.1E-05	0.3	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
229	2	Beryllium	7.90E-01	4.5E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
229	2	Cesium-137	3.21E-01	2.8E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
229	2	Chromium	4.80E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
229	2	Mercury	7.30E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
229	2	Nickel	9.93E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
229	2	Total PAH	1.69E+00	3.5E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
229	2	Uranium	7.45E+01	<1.0E-06	0.1	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
229	2	Uranium-234	1.22E+01	4.3E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
229	2	Uranium-235	8.40E-01	1.8E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
229	2	Uranium-238	2.49E+01	2.1E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
26	1	Arsenic	1.06E+01	2.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
26	1	Beryllium	6.51E+00	3.7E-04	0.1	5.32E+00	5.32E+01	1.60E+02	1.74E-02	1.74E-01	1.74E+00	mg/kg
26	1	Cadmium	2.09E+00	1.4E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
26	1	Cesium-137	1.76E+00	1.5E-05	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
26	1	Cobalt	8.55E+00	<1.0E-06	0.1	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
26	1	Mercury	6.78E+00	<1.0E-06	0.6	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
26	1	Nickel	9.66E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
26	1	PCB, Total	2.53E+00	1.6E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
26	1	Plutonium-239/240	3.50E+00	2.2E-06	<0.1	n/a	n/a	n/a	1.62E+00	1.62E+01	1.62E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
26	1	Thorium-230	4.03E+00	1.8E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
26	1	Total PAH	1.74E-01	3.6E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
26	1	Uranium	1.38E+02	<1.0E-06	0.2	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
26	1	Uranium-234	4.29E+00	1.5E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
26	1	Uranium-235	5.84E-01	1.3E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
26	1	Uranium-238	3.14E+01	2.7E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
26	2	Arsenic	1.91E+01	4.6E-05	0.3	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
26	2	Beryllium	8.44E+00	4.9E-04	0.2	5.32E+00	5.32E+01	1.60E+02	1.74E-02	1.74E-01	1.74E+00	mg/kg
26	2	Cadmium	1.55E+00	1.0E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
26	2	Cesium-137	4.86E+00	4.2E-05	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
26	2	Chromium	5.99E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
26	2	Cobalt	2.91E+01	<1.0E-06	0.5	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
26	2	Iron	2.65E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
26	2	Mercury	8.92E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
26	2	Neptunium-237	8.30E-01	2.5E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
26	2	Nickel	7.35E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
26	2	PCB, Total	3.58E+00	2.2E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
26	2	Thallium	8.91E+00	<1.0E-06	0.6	1.55E+00	1.55E+01	4.64E+01	n/a	n/a	n/a	mg/kg
26	2	Thorium-230	1.27E+01	5.8E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
26	2	Uranium	2.51E+02	<1.0E-06	0.4	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
26	2	Uranium-234	1.57E+01	5.6E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
26	2	Uranium-235	1.41E+00	3.1E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
26	2	Uranium-238	4.22E+01	3.6E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
26	2	Vanadium	2.94E+01	<1.0E-06	15.7	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
26	3	Arsenic	4.16E+01	1.0E-04	0.6	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
26	3	Beryllium	3.86E+00	2.2E-04	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
26	3	Cadmium	2.34E+00	1.5E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
26	3	Cesium-137	6.01E-01	5.2E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
26	3	Cobalt	1.02E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
26	3	Iron	1.47E+04	<1.0E-06	0.1	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
26	3	Mercury	4.13E+00	<1.0E-06	0.4	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
26	3	Neptunium-237	7.30E-01	2.2E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
26	3	PCB, Total	1.88E+00	1.2E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
26	3	Silver	2.15E+01	<1.0E-06	0.2	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
26	3	Technetium-99	8.75E+01	1.5E-06	<0.1	n/a	n/a	n/a	5.79E+01	5.79E+02	5.79E+03	pCi/g
26	3	Thorium-230	9.57E+00	4.4E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
26	3	Total PAH	1.01E+00	2.1E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
26	3	Uranium	9.12E+01	<1.0E-06	0.2	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
26	3	Uranium-234	4.05E+01	1.4E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
26	3	Uranium-235	1.48E+00	3.2E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
26	3	Uranium-238	4.53E+01	3.9E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
26	3	Vanadium	3.41E+01	<1.0E-06	18.3	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
26	4	Arsenic	1.21E+01	2.9E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
26	4	Beryllium	7.63E-01	4.4E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
26	4	Cadmium	1.99E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
26	4	Cesium-137	5.73E-01	5.0E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
26	4	Chromium	1.35E+02	3.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
26	4	Cobalt	1.04E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
26	4	Copper	1.87E+03	<1.0E-06	0.2	7.73E+02	7.73E+03	2.32E+04	n/a	n/a	n/a	mg/kg
26	4	Iron	2.04E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
26	4	Lead	9.50E+01									mg/kg
26	4	Mercury	6.75E+00	<1.0E-06	0.6	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
26	4	Neptunium-237	1.20E+01	3.7E-05	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
26	4	Nickel	4.41E+03	<1.0E-06	8.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
26	4	PCB, Total	5.62E-01	3.5E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
26	4	Plutonium-239/240	4.40E+00	2.7E-06	<0.1	n/a	n/a	n/a	1.62E+00	1.62E+01	1.62E+02	pCi/g
26	4	Technetium-99	4.65E+02	8.0E-06	<0.1	n/a	n/a	n/a	5.79E+01	5.79E+02	5.79E+03	pCi/g
26	4	Thorium-230	2.84E+01	1.3E-05	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
26	4	Total PAH	4.15E-01	8.6E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
26	4	Uranium	8.05E+02	<1.0E-06	1.4	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
26	4	Uranium-234	1.13E+02	4.0E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
26	4	Uranium-235	7.85E+00	1.7E-05	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
26	4	Uranium-238	3.27E+02	2.8E-04	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
26	4	Vanadium	3.42E+01	<1.0E-06	18.3	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
76	1	Arsenic	1.31E+01	3.2E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
76	1	Mercury	7.45E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
76	1	PCB, Total	2.60E-01	1.6E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
76	1	Total PAH	1.76E+00	3.6E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
76	1	Uranium-238	1.45E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
165	1	Arsenic	6.37E+01	1.5E-04	1.0	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
165	1	Beryllium	8.14E-01	4.7E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
165	1	Cesium-137	3.47E+00	3.0E-05	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
165	1	Cobalt	8.44E+00	<1.0E-06	0.1	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
165	1	Neptunium-237	4.26E-01	1.3E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
165	1	PCB, Total	9.89E+00	6.1E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
165	1	Plutonium-239/240	2.81E+00	1.7E-06	<0.1	n/a	n/a	n/a	1.62E+00	1.62E+01	1.62E+02	pCi/g
165	1	Silver	3.09E+01	<1.0E-06	0.2	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
165	1	Thorium-230	6.02E+00	2.7E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
165	1	Total PAH	1.87E+00	3.9E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
165	1	Uranium	1.08E+02	<1.0E-06	0.2	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
165	1	Uranium-234	5.76E+01	2.0E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
165	1	Uranium-235	2.06E+00	4.5E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
165	1	Uranium-238	6.42E+01	5.5E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
170	1	Cesium-137	3.35E-01	2.9E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
170	1	Uranium-238	2.55E+00	2.2E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
158	1	Arsenic	9.51E+00	2.3E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
158	1	Beryllium	5.69E-01	3.3E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
158	1	Chromium	5.11E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
158	1	Cobalt	1.26E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
158	1	Mercury	1.05E+01	<1.0E-06	1.0	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
158	1	Nickel	8.12E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
158	1	Total PAH	4.78E-01	9.9E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
158	1	Uranium-238	3.16E+00	2.7E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
169	1	Aluminum	2.06E+04	<1.0E-06	0.1	1.87E+04	1.87E+05	5.62E+05	n/a	n/a	n/a	mg/kg
169	1	Arsenic	2.03E+01	4.9E-05	0.3	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
169	1	Beryllium	2.30E+00	1.3E-04	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
169	1	Chromium	2.15E+02	5.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
169	1	Cobalt	7.80E+01	<1.0E-06	1.4	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
169	1	Iron	4.16E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
169	1	Mercury	7.87E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
169	1	Nickel	8.04E+02	<1.0E-06	1.5	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
169	1	PCB, Total	1.00E+01	6.2E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
169	1	Total PAH	4.59E+00	9.5E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
169	1	Uranium-234	6.55E+00	2.3E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
169	1	Uranium-235	4.60E-01	1.0E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
169	1	Uranium-238	8.12E+00	6.9E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
169	1	Vanadium	4.49E+01	<1.0E-06	24.1	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
176	1	Arsenic	4.86E+01	1.2E-04	0.7	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
176	1	Chromium	6.11E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
176	1	Lead	4.45E+02									mg/kg
176	1	Nickel	1.07E+02	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
177	1	Arsenic	9.50E+00	2.3E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
177	1	Chromium	6.62E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
177	1	Mercury	1.05E+01	<1.0E-06	1.0	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
177	1	Nickel	8.47E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
177	1	Silver	1.44E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
19	1	Arsenic	1.01E+01	2.4E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
19	1	Beryllium	1.40E+00	8.1E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
19	1	Cadmium	5.70E+00	3.7E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
19	1	Cobalt	1.35E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
19	1	Copper	1.80E+03	<1.0E-06	0.2	7.73E+02	7.73E+03	2.32E+04	n/a	n/a	n/a	mg/kg
19	1	Nickel	4.38E+02	<1.0E-06	0.8	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
19	1	Total PAH	5.23E+00	1.1E-04	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
19	1	Uranium	1.64E+02	<1.0E-06	0.3	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
19	1	Uranium-234	2.77E+01	9.8E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
19	1	Uranium-235	1.30E+00	2.9E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
19	1	Uranium-238	3.06E+01	2.6E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
19	1	Vanadium	3.83E+01	<1.0E-06	20.5	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
138	1	Antimony	4.55E+00	<1.0E-06	0.2	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
138	1	Arsenic	1.08E+01	2.6E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
138	1	Beryllium	6.28E-01	3.6E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
138	1	Cadmium	4.87E+00	3.2E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
138	1	Chromium	5.65E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
138	1	Cobalt	9.18E+00	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
138	1	Iron	1.99E+04	<1.0E-06	0.1	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
138	1	Mercury	1.46E+01	<1.0E-06	1.3	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
138	1	Nickel	7.71E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
138	1	PCB, Total	5.00E-01	3.1E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
138	1	Total PAH	9.74E-02	2.0E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
138	1	Vanadium	2.99E+01	<1.0E-06	16.0	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
138	2	Arsenic	1.03E+01	2.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
138	2	Chromium	6.28E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
138	2	Mercury	8.30E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
138	2	Nickel	9.60E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
138	2	Silver	1.53E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
180	1	Arsenic	7.57E+01	1.8E-04	1.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
180	1	Beryllium	6.25E-01	3.6E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
180	1	Chromium	6.34E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
180	1	Cobalt	1.37E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
180	1	Lead	1.99E+03									mg/kg
180	1	Mercury	8.28E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
180	1	Nickel	9.03E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
180	2	Arsenic	1.17E+01	2.8E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
180	2	Chromium	6.02E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
180	2	Mercury	8.25E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
180	2	Nickel	8.64E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
180	2	Total PAH	9.19E-02	1.9E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
180	3	Arsenic	1.36E+01	3.3E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
180	3	Beryllium	5.03E-01	2.9E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
180	3	Chromium	5.44E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
180	3	Nickel	7.17E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
180	3	Vanadium	2.87E+01	<1.0E-06	15.4	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
180	4	Arsenic	1.11E+01	2.7E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
180	4	Beryllium	1.14E+00	6.6E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
180	4	Chromium	6.00E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
180	4	Cobalt	9.68E+00	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
180	4	Iron	1.61E+04	<1.0E-06	0.1	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
180	4	Mercury	6.89E+00	<1.0E-06	0.6	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
180	4	Nickel	6.99E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
180	4	Vanadium	3.50E+01	<1.0E-06	18.8	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
181	1	Thallium	3.50E+00	<1.0E-06	0.2	1.55E+00	1.55E+01	4.64E+01	n/a	n/a	n/a	mg/kg
195	1	Arsenic	1.17E+01	2.8E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
195	1	Cesium-137	3.70E-01	3.2E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
195	1	Chromium	5.85E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	1	Nickel	8.00E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	2	Chromium	5.63E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	3	Arsenic	1.09E+01	2.6E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
195	3	Chromium	5.29E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	3	Nickel	9.63E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	4	Arsenic	1.01E+01	2.4E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
195	4	Chromium	5.08E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	4	Nickel	8.37E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	5	Arsenic	8.80E+00	2.1E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
195	5	Cesium-137	3.41E-01	3.0E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
195	5	Chromium	5.74E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	5	Nickel	8.11E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	6	Arsenic	1.05E+01	2.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
195	6	Cesium-137	2.26E-01	2.0E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
195	6	Chromium	5.52E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	6	Nickel	9.81E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	6	Total PAH	1.91E-01	3.9E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
195	7	Arsenic	8.49E+00	2.0E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
195	7	Chromium	4.74E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	7	Cobalt	1.13E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
195	8	Arsenic	1.12E+01	2.7E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
195	8	Beryllium	6.78E-01	3.9E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
195	8	Cesium-137	2.44E-01	2.1E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
195	8	Chromium	5.23E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	8	Cobalt	1.41E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
195	8	Nickel	8.93E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	8	Total PAH	1.42E-01	2.9E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
195	8	Vanadium	3.70E+01	<1.0E-06	19.8	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
195	9	Arsenic	1.03E+01	2.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
195	9	Chromium	6.08E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
195	9	Nickel	9.12E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	10	Arsenic	9.83E+00	2.4E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
195	10	Chromium	4.29E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	10	Nickel	7.98E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	11	Aluminum	1.93E+04	<1.0E-06	0.1	1.87E+04	1.87E+05	5.62E+05	n/a	n/a	n/a	mg/kg
195	11	Arsenic	1.30E+01	3.1E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
195	11	Cesium-137	2.13E-01	1.8E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
195	11	Chromium	5.67E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	11	Cobalt	1.87E+01	<1.0E-06	0.3	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
195	11	Iron	2.10E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
195	11	Nickel	8.37E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	11	Vanadium	5.55E+01	<1.0E-06	29.7	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
195	12	Arsenic	1.08E+01	2.6E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
195	12	Beryllium	6.22E-01	3.6E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
195	12	Chromium	6.45E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	12	Nickel	9.19E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	12	Vanadium	3.68E+01	<1.0E-06	19.7	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
195	13	Arsenic	9.12E+00	2.2E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
195	13	Chromium	5.23E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	13	Nickel	8.34E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	14	Arsenic	1.02E+01	2.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
195	14	Chromium	5.94E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	14	Mercury	6.49E+00	<1.0E-06	0.6	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
195	14	Nickel	8.22E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	15	Arsenic	9.15E+00	2.2E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
195	15	Cesium-137	2.61E-01	2.3E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
195	15	Chromium	5.34E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	16	Cesium-137	2.94E-01	2.6E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
195	16	Chromium	5.22E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	16	Mercury	8.43E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
195	16	Nickel	8.59E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	17	Arsenic	9.36E+00	2.3E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
195	17	Chromium	6.77E+01	1.7E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
195	17	Mercury	7.24E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
195	17	Nickel	7.09E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
195	17	PCB, Total	7.40E-01	4.6E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
195	17	Total PAH	2.05E-01	4.2E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
195	17	Uranium-238	1.75E+00	1.5E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
204	1	Arsenic	1.04E+01	2.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
204	1	Beryllium	1.36E+00	7.8E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
204	1	Cadmium	2.73E+00	1.8E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
204	1	Chromium	7.40E+01	1.8E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
204	1	Iron	4.19E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
204	1	PCB, Total	2.53E+00	1.6E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
204	1	Uranium-238	5.20E+00	4.4E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
204	1	Vanadium	7.55E+01	<1.0E-06	40.5	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
204	2	PCB, Total	1.70E-01	1.0E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
204	3	Uranium-238	2.50E+00	2.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
204	4	Antimony	1.72E+01	<1.0E-06	0.6	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
204	4	Uranium-238	9.72E+00	8.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
204	18	Cesium-137	6.30E-01	5.5E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
204	18	Uranium-238	5.37E+00	4.6E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
204	22	Uranium	3.71E+02	<1.0E-06	0.6	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
204	23	Americium-241	3.71E+00	2.1E-06	<0.1	n/a	n/a	n/a	1.73E+00	1.73E+01	1.73E+02	pCi/g
204	23	Beryllium	1.33E+00	7.7E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
204	23	Cesium-137	1.17E+00	1.0E-05	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
204	23	Chromium	1.75E+02	4.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
204	23	PCB, Total	7.90E+01	4.9E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
204	23	Trichloroethene	7.30E-02	1.2E-06	<0.1	n/a	n/a	n/a	6.21E-02	6.21E-01	6.21E+00	mg/kg
204	23	Uranium	1.31E+04	<1.0E-06	22.6	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
204	23	Uranium-234	4.45E+02	1.6E-04	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
204	23	Uranium-235	5.70E+01	1.3E-04	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
204	23	Uranium-238	4.39E+03	3.7E-03	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
486	1	Cesium-137	1.71E+00	1.5E-05	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
487	1	Cesium-137	1.38E+00	1.2E-05	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
492	1	Arsenic	1.47E+01	3.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
492	1	Beryllium	1.04E+01	6.0E-04	0.2	5.32E+00	5.32E+01	1.60E+02	1.74E-02	1.74E-01	1.74E+00	mg/kg
492	1	Cadmium	3.14E+00	2.1E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
492	1	Cesium-137	3.46E-01	3.0E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
492	1	Chromium	1.04E+03	2.6E-05	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
492	1	PCB, Total	4.41E+01	2.7E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
492	1	Uranium	1.77E+03	<1.0E-06	3.1	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
492	1	Uranium-234	5.39E+01	1.9E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
492	1	Uranium-235	5.72E+00	1.3E-05	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
492	1	Uranium-238	3.83E+02	3.3E-04	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
492	1	Vanadium	4.32E+01	<1.0E-06	23.1	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
493	1	Arsenic	1.18E+01	2.8E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
493	1	Beryllium	9.91E-01	5.7E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
493	1	Cesium-137	2.92E-01	2.5E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
493	1	Chromium	6.61E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
493	1	Cobalt	3.79E+01	<1.0E-06	0.7	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
493	1	Manganese	3.55E+03	<1.0E-06	0.2	1.97E+03	1.97E+04	5.90E+04	n/a	n/a	n/a	mg/kg
493	1	Nickel	2.13E+02	<1.0E-06	0.4	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
493	1	PCB, Total	2.60E-01	1.6E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
493	1	Total PAH	5.00E-01	1.0E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
493	1	Uranium-238	5.50E+00	4.7E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
493	1	Vanadium	4.05E+01	<1.0E-06	21.7	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
517	1	Beryllium	7.39E-01	4.3E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
517	1	Chromium	4.91E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
517	1	Neptunium-237	1.07E+00	3.3E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
517	1	Nickel	1.72E+02	<1.0E-06	0.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
517	1	PCB, Total	5.00E-01	3.1E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
517	1	Uranium-238	3.89E+00	3.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
541	1	Americium-241	7.53E+00	4.4E-06	<0.1	n/a	n/a	n/a	1.73E+00	1.73E+01	1.73E+02	pCi/g
541	1	Arsenic	9.08E+00	2.2E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
541	1	Beryllium	7.40E-01	4.3E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
541	1	Cadmium	1.60E+00	1.0E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
541	1	Cesium-137	9.72E-01	8.4E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
541	1	Chromium	9.44E+02	2.3E-05	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
541	1	Iron	1.88E+04	<1.0E-06	0.1	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
541	1	PCB, Total	6.18E+01	3.8E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
541	1	Total PAH	3.15E+00	6.5E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
541	1	Uranium	7.39E+03	<1.0E-06	12.8	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
541	1	Uranium-234	1.44E+02	5.1E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
541	1	Uranium-235	2.26E+01	5.0E-05	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
541	1	Uranium-238	1.11E+03	9.5E-04	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
541	1	Vanadium	3.54E+01	<1.0E-06	19.0	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
561	1	Arsenic	1.63E+01	3.9E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
561	1	Beryllium	6.74E-01	3.9E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
561	1	Cesium-137	2.53E-01	2.2E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
561	1	Chromium	9.00E+01	2.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
561	1	Cobalt	1.10E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
561	1	Cobalt-60	6.98E-02	2.9E-06	<0.1	n/a	n/a	n/a	2.38E-02	2.38E-01	2.38E+00	pCi/g
561	1	Iron	2.07E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
561	1	PCB, Total	1.01E+00	6.2E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
561	1	Total PAH	7.79E-01	1.6E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
561	1	Uranium	2.65E+02	<1.0E-06	0.5	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
561	1	Uranium-234	8.48E+00	3.0E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
561	1	Uranium-235	1.43E+00	3.1E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
561	1	Uranium-238	1.12E+02	9.5E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
561	1	Vanadium	3.94E+01	<1.0E-06	21.1	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
561	2	Antimony	5.09E+00	<1.0E-06	0.2	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
561	2	Arsenic	1.27E+01	3.1E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
561	2	Beryllium	6.21E-01	3.6E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
561	2	Cesium-137	4.02E-01	3.5E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
561	2	Chromium	3.07E+02	7.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
561	2	Cobalt	1.09E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
561	2	Cobalt-60	3.02E-02	1.3E-06	<0.1	n/a	n/a	n/a	2.38E-02	2.38E-01	2.38E+00	pCi/g
561	2	PCB, Total	1.66E+01	1.0E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
561	2	Total PAH	4.60E-01	9.5E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
561	2	Uranium	1.41E+03	<1.0E-06	2.4	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
561	2	Uranium-234	3.92E+01	1.4E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
561	2	Uranium-235	6.79E+00	1.5E-05	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
561	2	Uranium-238	3.86E+02	3.3E-04	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
561	2	Vanadium	3.32E+01	<1.0E-06	17.8	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
562	1	Arsenic	1.18E+01	2.8E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
562	1	Cesium-137	4.52E-01	3.9E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
562	1	Chromium	3.15E+02	7.7E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
562	1	PCB, Total	2.01E+00	1.2E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
562	1	Uranium	2.27E+02	<1.0E-06	0.4	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
562	1	Uranium-235	5.91E-01	1.3E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
562	1	Uranium-238	4.42E+01	3.8E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
562	2	Cesium-137	3.58E-01	3.1E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
562	2	PCB, Total	1.58E+00	9.7E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
562	2	Uranium-234	5.34E+01	1.9E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
562	2	Uranium-235	8.96E+00	2.0E-05	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
562	2	Uranium-238	5.81E+02	5.0E-04	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
562	3	PCB, Total	2.40E-01	1.5E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
562	3	Total PAH	2.20E-01	4.5E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
562	3	Uranium	5.89E+01	<1.0E-06	0.1	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
562	3	Uranium-238	1.09E+01	9.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
562	4	Cesium-137	4.91E-01	4.3E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
562	4	Chromium	4.67E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
562	4	Uranium-238	2.42E+00	2.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
562	5	Cesium-137	3.80E-01	3.3E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
562	5	Chromium	1.53E+02	3.8E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
562	5	PCB, Total	9.50E-01	5.9E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
562	5	Total PAH	7.05E-02	1.5E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
562	5	Uranium	2.08E+02	<1.0E-06	0.4	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
562	5	Uranium-234	8.57E+00	3.0E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
562	5	Uranium-235	9.50E-01	2.1E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
562	5	Uranium-238	6.24E+01	5.3E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
563	1	Cesium-137	2.88E-01	2.5E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
563	1	Chromium	3.34E+02	8.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
563	1	PCB, Total	3.54E+00	2.2E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
563	1	Uranium-238	2.96E+00	2.5E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
563	2	Cesium-137	6.47E-01	5.6E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
563	2	Uranium-238	1.49E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
564	1	Arsenic	4.30E+01	1.0E-04	0.6	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
564	1	Beryllium	2.12E+00	1.2E-04	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
564	1	Cadmium	1.96E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
564	1	Cesium-137	6.20E-01	5.4E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
564	1	Chromium	8.32E+01	2.0E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
564	1	Iron	3.66E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
564	1	PCB, Total	1.93E+00	1.2E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
564	1	Thallium	2.36E+00	<1.0E-06	0.2	1.55E+00	1.55E+01	4.64E+01	n/a	n/a	n/a	mg/kg
564	1	Thorium-230	5.01E+00	2.3E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
564	1	Uranium	5.83E+01	<1.0E-06	0.1	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
564	1	Uranium-234	6.93E+00	2.4E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
564	1	Uranium-238	8.54E+00	7.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
564	1	Vanadium	8.06E+01	<1.0E-06	43.2	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
565	1	Cesium-137	4.00E-01	3.5E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
567	3	Chromium	5.21E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
567	3	Uranium-238	1.72E+00	1.5E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
567	4	Arsenic	1.09E+01	2.6E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
12	1	1,1-Dichloroethene	3.54E-01									mg/kg
12	1	Arsenic	1.43E+01	3.4E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
12	1	Beryllium	4.75E+00	2.7E-04	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
12	1	Chromium	5.01E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
12	1	Cobalt	2.47E+01	<1.0E-06	0.4	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
12	1	Iron	3.87E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
12	1	Mercury	8.80E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
12	1	Nickel	8.72E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
12	1	PCB, Total	7.30E-01	4.5E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
12	1	Total PAH	2.71E-01	5.6E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
12	1	Uranium	9.34E+02	<1.0E-06	1.6	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
12	1	Uranium-234	9.11E+00	3.2E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
12	1	Uranium-235	1.01E+00	2.2E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
12	1	Uranium-238	4.28E+01	3.6E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
12	1	Vanadium	3.09E+01	<1.0E-06	16.6	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
13	1	Beryllium	6.24E-01	3.6E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
13	1	Cadmium	2.25E+00	1.5E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
13	1	PCB, Total	3.44E-01	2.1E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
13	1	Uranium-238	1.40E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
13	1	Vanadium	2.61E+01	<1.0E-06	14.0	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
13	2	Cadmium	1.85E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
13	3	Beryllium	6.15E-01	3.5E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
13	3	Cadmium	2.11E+00	1.4E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
13	3	Vanadium	3.31E+01	<1.0E-06	17.7	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
13	4	Cobalt-60	8.06E-02	3.4E-06	<0.1	n/a	n/a	n/a	2.38E-02	2.38E-01	2.38E+00	pCi/g
13	4	PCB, Total	3.10E-01	1.9E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
13	4	Uranium-238	3.14E+00	2.7E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
13	5	Cadmium	2.36E+00	1.5E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
13	5	Cesium-137	3.97E-01	3.4E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
13	5	Chromium	1.20E+02	3.0E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
13	5	Nickel	1.01E+02	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
13	5	PCB, Total	9.20E-01	5.7E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
13	5	Total PAH	6.65E-02	1.4E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
13	5	Uranium	1.19E+02	<1.0E-06	0.2	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
13	5	Uranium-238	2.21E+00	1.9E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
13	6	Beryllium	5.72E-01	3.3E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
13	6	Cadmium	3.94E+00	2.6E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
13	6	Cesium-137	2.33E-01	2.0E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
13	6	PCB, Total	2.63E-01	1.6E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
13	6	Total PAH	8.00E-01	1.6E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
13	6	Uranium-238	3.63E+00	3.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
13	7	PCB, Total	5.50E-01	3.4E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
13	7	Uranium-238	4.82E+00	4.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
13	9	Cesium-137	3.04E-01	2.6E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
13	9	Neptunium-237	6.84E-01	2.1E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
13	9	Uranium-238	4.75E+00	4.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
13	12	Beryllium	6.25E-01	3.6E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
13	12	Cadmium	2.59E+00	1.7E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
13	12	PCB, Total	7.02E-01	4.3E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
13	14	Uranium-238	4.46E+00	3.8E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	1	Arsenic	1.13E+01	2.7E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	1	Beryllium	6.84E-01	3.9E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	1	Chromium	6.56E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	1	Cobalt-60	2.42E-02	1.0E-06	<0.1	n/a	n/a	n/a	2.38E-02	2.38E-01	2.38E+00	pCi/g
14	1	Iron	4.24E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
14	1	Nickel	7.40E+02	<1.0E-06	1.4	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	1	PCB, Total	5.00E-01	3.1E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	1	Silver	1.67E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
14	1	Technetium-99	4.06E+02	7.0E-06	<0.1	n/a	n/a	n/a	5.79E+01	5.79E+02	5.79E+03	pCi/g
14	1	Uranium	2.56E+02	<1.0E-06	0.4	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	1	Uranium-238	6.24E+00	5.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	1	Vanadium	2.99E+01	<1.0E-06	16.0	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
14	2	Antimony	3.51E+00	<1.0E-06	0.1	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
14	2	Arsenic	1.47E+01	3.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	2	Beryllium	6.75E-01	3.9E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
14	2	Cadmium	1.75E+00	1.1E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
14	2	Chromium	7.24E+01	1.8E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	2	Iron	4.38E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
14	2	Mercury	8.88E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
14	2	Neptunium-237	1.70E+00	5.2E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
14	2	Nickel	8.41E+02	<1.0E-06	1.6	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	2	PCB, Total	5.00E+00	3.1E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	2	Thorium-230	7.70E+00	3.5E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
14	2	Total PAH	2.31E-01	4.8E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
14	2	Uranium	3.64E+02	<1.0E-06	0.6	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	2	Uranium-234	4.81E+01	1.7E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
14	2	Uranium-235	3.41E+00	7.5E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
14	2	Uranium-238	8.96E+01	7.6E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	3	Arsenic	1.91E+01	4.6E-05	0.3	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	3	Beryllium	2.07E+00	1.2E-04	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
14	3	Chromium	7.01E+01	1.7E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	3	Cobalt	1.63E+01	<1.0E-06	0.3	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
14	3	Iron	4.64E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
14	3	Mercury	7.48E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
14	3	Nickel	6.64E+02	<1.0E-06	1.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	3	PCB, Total	8.75E+00	5.4E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	3	Silver	1.34E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
14	3	Uranium	2.19E+02	<1.0E-06	0.4	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	3	Uranium-234	4.43E+00	1.6E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
14	3	Uranium-238	1.08E+01	9.2E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	3	Vanadium	6.19E+01	<1.0E-06	33.2	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
14	4	Antimony	3.29E+00	<1.0E-06	0.1	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
14	4	Arsenic	1.24E+01	3.0E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	4	Chromium	5.66E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	4	Cobalt	1.46E+01	<1.0E-06	0.3	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
14	4	Iron	3.89E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
14	4	Mercury	8.00E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
14	4	Neptunium-237	2.03E+00	6.2E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
14	4	Nickel	7.31E+02	<1.0E-06	1.4	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	4	PCB, Total	8.28E+00	5.1E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	4	Thorium-230	5.43E+00	2.5E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
14	4	Total PAH	1.89E-01	3.9E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
14	4	Uranium	3.72E+02	<1.0E-06	0.6	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	4	Uranium-234	8.61E+01	3.0E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
14	4	Uranium-235	6.10E+00	1.3E-05	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
14	4	Uranium-238	1.29E+02	1.1E-04	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	5	Arsenic	1.27E+01	3.0E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	5	Beryllium	7.93E-01	4.6E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
14	5	Cadmium	2.59E+00	1.7E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
14	5	Chromium	4.70E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	5	Cobalt	1.11E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
14	5	Iron	3.93E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
14	5	Mercury	1.09E+01	<1.0E-06	1.0	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
14	5	Neptunium-237	1.74E+00	5.3E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
14	5	Nickel	4.63E+02	<1.0E-06	0.9	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	5	PCB, Total	7.64E+00	4.7E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	5	Technetium-99	7.80E+01	1.3E-06	<0.1	n/a	n/a	n/a	5.79E+01	5.79E+02	5.79E+03	pCi/g
14	5	Thorium-230	1.09E+01	5.0E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
14	5	Total PAH	9.48E-02	2.0E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
14	5	Uranium	2.62E+02	<1.0E-06	0.5	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	5	Uranium-234	4.03E+01	1.4E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
14	5	Uranium-235	2.57E+00	5.7E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
14	5	Uranium-238	7.26E+01	6.2E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	5	Vanadium	3.68E+01	<1.0E-06	19.7	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
14	6	Arsenic	1.05E+01	2.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	6	Chromium	4.39E+02	1.1E-05	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	6	Neptunium-237	2.04E+00	6.2E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
14	6	Nickel	9.63E+02	<1.0E-06	1.8	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	6	PCB, Total	5.00E+00	3.1E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	6	Silver	1.47E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
14	6	Uranium	5.77E+02	<1.0E-06	1.0	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	6	Uranium-234	2.59E+01	9.2E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
14	6	Uranium-235	1.79E+00	3.9E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
14	6	Uranium-238	4.11E+01	3.5E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	7	Arsenic	1.12E+01	2.7E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	7	Cadmium	2.11E+00	1.4E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
14	7	Chromium	6.46E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	7	Lead	4.36E+02									mg/kg
14	7	Mercury	7.82E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
14	7	Neptunium-237	1.16E+00	3.5E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
14	7	Nickel	1.22E+03	<1.0E-06	2.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	7	PCB, Total	7.60E+00	4.7E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	7	Silver	1.63E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
14	7	Total PAH	4.88E-02	1.0E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
14	7	Uranium	3.33E+02	<1.0E-06	0.6	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	7	Uranium-234	9.86E+00	3.5E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
14	7	Uranium-235	7.29E-01	1.6E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
14	7	Uranium-238	1.60E+01	1.4E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	8	Arsenic	1.22E+01	2.9E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	8	Chromium	5.14E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	8	Mercury	8.70E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
14	8	Neptunium-237	6.77E-01	2.1E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
14	8	Nickel	6.73E+02	<1.0E-06	1.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	8	PCB, Total	5.00E+00	3.1E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	8	Uranium	4.05E+02	<1.0E-06	0.7	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	8	Uranium-238	3.97E+00	3.4E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	9	Arsenic	1.39E+01	3.3E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	9	Cesium-137	4.53E-01	3.9E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
14	9	Chromium	4.64E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	9	Mercury	1.13E+00	<1.0E-06	0.1	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
14	9	Neptunium-237	1.09E+01	3.3E-05	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
14	9	Nickel	9.43E+02	<1.0E-06	1.8	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	9	PCB, Total	6.84E+00	4.2E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	9	Technetium-99	1.96E+02	3.4E-06	<0.1	n/a	n/a	n/a	5.79E+01	5.79E+02	5.79E+03	pCi/g
14	9	Total PAH	4.87E-01	1.0E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
14	9	Uranium	1.46E+03	<1.0E-06	2.5	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	9	Uranium-234	8.32E+02	2.9E-04	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
14	9	Uranium-235	5.46E+01	1.2E-04	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
14	9	Uranium-238	1.20E+03	1.0E-03	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
14	10	Arsenic	1.15E+01	2.8E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
14	10	Chromium	4.47E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
14	10	Iron	2.69E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
14	10	Mercury	2.49E+01	<1.0E-06	2.3	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
14	10	Neptunium-237	2.05E+00	6.2E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
14	10	Nickel	5.80E+02	<1.0E-06	1.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
14	10	PCB, Total	9.32E+00	5.7E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
14	10	Total PAH	2.10E-01	4.3E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
14	10	Uranium	2.80E+02	<1.0E-06	0.5	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
14	10	Uranium-234	1.92E+01	6.8E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
14	10	Uranium-235	1.40E+00	3.1E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
14	10	Uranium-238	2.68E+01	2.3E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	1	Arsenic	1.33E+01	3.2E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	1	Chromium	5.61E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	1	Iron	2.97E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
15	1	Nickel	1.33E+02	<1.0E-06	0.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	1	Technetium-99	1.06E+02	1.8E-06	<0.1	n/a	n/a	n/a	5.79E+01	5.79E+02	5.79E+03	pCi/g
15	1	Total PAH	1.16E+00	2.4E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	1	Uranium-238	1.30E+00	1.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	2	Arsenic	1.63E+01	3.9E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	2	Cadmium	1.58E+00	1.0E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
15	2	Chromium	5.90E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	2	Iron	3.89E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
15	2	Mercury	9.33E+00	<1.0E-06	0.9	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
15	2	Neptunium-237	5.56E-01	1.7E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
15	2	Nickel	3.75E+02	<1.0E-06	0.7	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	2	PCB, Total	3.30E-01	2.0E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
15	2	Total PAH	2.11E+00	4.3E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	2	Uranium	1.32E+02	<1.0E-06	0.2	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
15	2	Uranium-234	6.51E+00	2.3E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
15	2	Uranium-238	1.21E+01	1.0E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	2	Vanadium	3.72E+01	<1.0E-06	19.9	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
15	3	Antimony	1.65E+01	<1.0E-06	0.6	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
15	3	Arsenic	3.65E+01	8.8E-05	0.5	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	3	Beryllium	5.63E-01	3.2E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
15	3	Cadmium	7.30E+00	4.8E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
15	3	Chromium	8.13E+01	2.0E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	3	Cobalt	2.37E+01	<1.0E-06	0.4	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
15	3	Copper	1.39E+03	<1.0E-06	0.2	7.73E+02	7.73E+03	2.32E+04	n/a	n/a	n/a	mg/kg
15	3	Iron	9.52E+04	<1.0E-06	0.7	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
15	3	Lead	6.93E+02									mg/kg
15	3	Mercury	1.22E+01	<1.0E-06	1.1	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
15	3	Neptunium-237	4.06E+00	1.2E-05	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
15	3	Nickel	7.57E+02	<1.0E-06	1.4	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	3	PCB, Total	1.00E+01	6.2E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
15	3	Technetium-99	2.08E+02	3.6E-06	<0.1	n/a	n/a	n/a	5.79E+01	5.79E+02	5.79E+03	pCi/g
15	3	Thorium-230	4.61E+00	2.1E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
15	3	Total PAH	9.85E-01	2.0E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	3	Uranium	2.16E+02	<1.0E-06	0.4	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
15	3	Uranium-234	6.91E+01	2.4E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
15	3	Uranium-235	4.21E+00	9.3E-06	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
15	3	Uranium-238	9.57E+01	8.2E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	4	Antimony	7.40E+00	<1.0E-06	0.3	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	4	Arsenic	3.46E+01	8.3E-05	0.5	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	4	Cadmium	1.57E+00	1.0E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
15	4	Chromium	9.79E+01	2.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	4	Iron	7.81E+04	<1.0E-06	0.6	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
15	4	Lead	5.12E+02									mg/kg
15	4	Mercury	1.53E+01	<1.0E-06	1.4	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
15	4	Neptunium-237	4.31E-01	1.3E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
15	4	Nickel	1.37E+03	<1.0E-06	2.6	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	4	PCB, Total	2.67E+01	1.6E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
15	4	Silver	1.80E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
15	4	Total PAH	1.47E+00	3.0E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	4	Uranium	1.57E+02	<1.0E-06	0.3	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
15	4	Uranium-234	6.26E+00	2.2E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
15	4	Uranium-238	1.06E+01	9.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	5	Arsenic	1.33E+01	3.2E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	5	Chromium	6.58E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	5	Copper	5.63E+03	<1.0E-06	0.7	7.73E+02	7.73E+03	2.32E+04	n/a	n/a	n/a	mg/kg
15	5	Iron	2.31E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
15	5	Mercury	1.06E+01	<1.0E-06	1.0	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
15	5	Neptunium-237	5.30E-01	1.6E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
15	5	Nickel	3.48E+02	<1.0E-06	0.7	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	5	PCB, Total	2.50E+01	1.5E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
15	5	Silver	1.53E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
15	5	Technetium-99	1.07E+02	1.8E-06	<0.1	n/a	n/a	n/a	5.79E+01	5.79E+02	5.79E+03	pCi/g
15	5	Total PAH	3.31E-01	6.8E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	5	Uranium	2.42E+02	<1.0E-06	0.4	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
15	5	Uranium-234	3.90E+00	1.4E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
15	5	Uranium-238	8.14E+00	6.9E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	6	Antimony	4.00E+00	<1.0E-06	0.1	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
15	6	Arsenic	1.20E+01	2.9E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	6	Chromium	5.80E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	6	Cobalt	1.13E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
15	6	Iron	3.15E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
15	6	Mercury	7.83E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	6	Neptunium-237	4.93E-01	1.5E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
15	6	Nickel	3.24E+02	<1.0E-06	0.6	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	6	PCB, Total	6.17E+00	3.8E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
15	6	Total PAH	1.25E+00	2.6E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	6	Uranium	6.26E+01	<1.0E-06	0.1	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
15	6	Uranium-234	6.91E+00	2.4E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
15	6	Uranium-238	1.21E+01	1.0E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	7	Arsenic	1.61E+01	3.9E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	7	Beryllium	6.61E-01	3.8E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
15	7	Chromium	6.54E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	7	Iron	3.55E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
15	7	Nickel	5.59E+02	<1.0E-06	1.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	7	PCB, Total	2.55E+01	1.6E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
15	7	Total PAH	1.24E-01	2.6E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	7	Uranium-234	4.27E+00	1.5E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
15	7	Uranium-238	6.39E+00	5.5E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	8	Antimony	3.64E+00	<1.0E-06	0.1	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
15	8	Arsenic	1.14E+01	2.8E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	8	Chromium	7.53E+01	1.8E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	8	Iron	2.83E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
15	8	Mercury	1.00E+01	<1.0E-06	0.9	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
15	8	Nickel	1.82E+02	<1.0E-06	0.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	8	PCB, Total	4.90E+00	3.0E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
15	8	Silver	1.42E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
15	8	Total PAH	2.80E-01	5.8E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	8	Uranium-238	4.52E+00	3.9E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	9	Arsenic	1.27E+01	3.0E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	9	Chromium	8.92E+01	2.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	9	Iron	3.02E+04	<1.0E-06	0.2	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
15	9	Mercury	6.54E+00	<1.0E-06	0.6	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
15	9	Nickel	1.49E+02	<1.0E-06	0.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	9	PCB, Total	3.30E-01	2.0E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
15	9	Silver	1.54E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
15	9	Total PAH	1.85E-01	3.8E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	9	Uranium-238	4.68E+00	4.0E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
15	10	Arsenic	9.74E+00	2.3E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
15	10	Chromium	6.29E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
15	10	Mercury	7.84E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
15	10	Nickel	1.60E+02	<1.0E-06	0.3	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
15	10	Total PAH	8.65E-02	1.8E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
15	10	Uranium	6.42E+01	<1.0E-06	0.1	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
16	1	Beryllium	6.21E-01	3.6E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
16	1	Cesium-137	1.10E+00	9.5E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
16	2	Arsenic	8.72E+00	2.1E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
16	2	Beryllium	6.88E-01	4.0E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
16	2	Chromium	5.03E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
16	2	Nickel	7.56E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
16	3	Arsenic	8.62E+00	2.1E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
16	3	Beryllium	6.15E-01	3.5E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
16	3	Chromium	4.66E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
16	3	Nickel	7.09E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
16	3	PCB, Total	1.37E+00	8.4E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
16	4	Cesium-137	3.66E+01	3.2E-04	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
16	4	Neptunium-237	7.12E+00	2.2E-05	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
16	4	Nickel	8.94E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
16	4	PCB, Total	4.29E-01	2.6E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
16	4	Technetium-99	3.55E+02	6.1E-06	<0.1	n/a	n/a	n/a	5.79E+01	5.79E+02	5.79E+03	pCi/g
16	4	Thorium-230	5.29E+00	2.4E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
16	4	Total PAH	2.05E+00	4.2E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
16	4	Uranium-234	1.19E+02	4.2E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
16	4	Uranium-235	8.23E+00	1.8E-05	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
16	4	Uranium-238	2.70E+02	2.3E-04	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
518	1	Arsenic	6.45E+00	1.6E-05	<0.1	n/a	n/a	n/a	4.15E-01	4.15E+00	4.15E+01	mg/kg
518	1	Cobalt	6.80E+00	<1.0E-06	0.1	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
518	1	PCB, Total	6.30E-01	3.9E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
518	1	Total PAH	4.64E+00	9.6E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
518	1	Uranium	2.17E+02	<1.0E-06	0.4	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
518	1	Uranium-238	1.51E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
520	1	Arsenic	8.83E+00	2.1E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
520	1	Beryllium	5.77E-01	3.3E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
520	1	Cesium-137	8.53E-01	7.4E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
520	1	Chromium	5.95E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
520	1	Cobalt	1.08E+01	<1.0E-06	0.2	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
520	1	Iron	1.70E+04	<1.0E-06	0.1	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
520	1	Mercury	1.07E+01	<1.0E-06	1.0	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
520	1	Neptunium-237	5.37E-01	1.6E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
520	1	Nickel	2.56E+02	<1.0E-06	0.5	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
520	1	Silver	1.40E+01	<1.0E-06	0.1	1.33E+01	1.33E+02	4.00E+02	n/a	n/a	n/a	mg/kg
520	1	Thorium-230	1.02E+01	4.7E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
520	1	Uranium-238	3.69E+00	3.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
520	2	Arsenic	9.87E+00	2.4E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
520	2	Chromium	6.67E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
520	2	Mercury	1.19E+01	<1.0E-06	1.1	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
520	2	Nickel	3.10E+02	<1.0E-06	0.6	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
520	2	Total PAH	2.53E-01	5.2E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
520	2	Uranium-238	1.58E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
520	3	Arsenic	1.04E+01	2.5E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
520	3	Chromium	6.57E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
520	3	Mercury	6.65E+00	<1.0E-06	0.6	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
520	3	Nickel	3.31E+02	<1.0E-06	0.6	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
520	3	Total PAH	7.42E-02	1.5E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
520	3	Uranium-238	1.34E+00	1.1E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
520	4	Arsenic	9.35E+00	2.3E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
520	4	Beryllium	7.27E-01	4.2E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
520	4	Chromium	6.60E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
520	4	Iron	1.65E+04	<1.0E-06	0.1	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
520	4	Mercury	9.69E+00	<1.0E-06	0.9	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
520	4	Neptunium-237	7.40E-01	2.3E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
520	4	Nickel	2.82E+02	<1.0E-06	0.5	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
520	4	Total PAH	5.52E-01	1.1E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
520	4	Uranium-238	6.26E+00	5.3E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
520	4	Vanadium	4.43E+01	<1.0E-06	23.7	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
520	5	Arsenic	9.97E+00	2.4E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
520	5	Beryllium	7.01E-01	4.0E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
520	5	Chromium	4.94E+01	1.2E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
520	5	Iron	1.70E+04	<1.0E-06	0.1	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
520	5	Mercury	6.94E+00	<1.0E-06	0.6	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
520	5	Nickel	1.12E+02	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
520	5	Total PAH	3.87E-01	8.0E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
520	5	Uranium-238	1.45E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
520	5	Vanadium	3.01E+01	<1.0E-06	16.1	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
74	1	Cesium-137	4.80E-01	4.2E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
74	1	PCB, Total	2.97E+00	1.8E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
74	1	Total PAH	3.16E+00	6.5E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
74	1	Uranium-234	7.55E+00	2.7E-06	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
74	1	Uranium-238	3.85E+01	3.3E-05	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
75	1	Arsenic	1.68E+01	4.1E-05	0.3	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
75	1	Chromium	7.17E+01	1.8E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
75	1	Iron	4.42E+04	<1.0E-06	0.3	1.35E+04	1.35E+05	4.06E+05	n/a	n/a	n/a	mg/kg
75	1	Nickel	8.87E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
75	1	PCB, Total	2.30E-01	1.4E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
75	1	Total PAH	2.21E-01	4.6E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
78	1	Cadmium	2.36E+00	1.6E-06	<0.1	n/a	n/a	n/a	1.52E+00	1.52E+01	1.52E+02	mg/kg
78	1	Cobalt	1.61E+01	<1.0E-06	0.3	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
78	1	Naphthalene	1.60E+01	5.3E-06	0.2	1.03E+01	1.03E+02	3.10E+02	3.02E+00	3.02E+01	3.02E+02	mg/kg
78	1	PCB, Total	1.20E+01	7.4E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
78	1	Total PAH	3.91E+01	8.1E-04	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
78	1	Uranium-238	5.29E+00	4.5E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
80	1	Americium-241	6.40E+00	3.7E-06	<0.1	n/a	n/a	n/a	1.73E+00	1.73E+01	1.73E+02	pCi/g
80	1	Arsenic	1.01E+01	2.4E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
80	1	Beryllium	7.80E-01	4.5E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
80	1	Chromium	1.65E+02	4.0E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
80	1	Neptunium-237	5.05E-01	1.5E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
80	1	PCB, Total	4.31E+01	2.7E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
80	1	Thorium-230	4.40E+00	2.0E-06	<0.1	n/a	n/a	n/a	2.20E+00	2.20E+01	2.20E+02	pCi/g
80	1	Total PAH	1.42E-01	2.9E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
80	1	Uranium	5.72E+03	<1.0E-06	9.9	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
80	1	Uranium-234	2.29E+02	8.1E-05	<0.1	n/a	n/a	n/a	2.83E+00	2.83E+01	2.83E+02	pCi/g
80	1	Uranium-235	3.00E+01	6.6E-05	<0.1	n/a	n/a	n/a	4.55E-01	4.55E+00	4.55E+01	pCi/g
80	1	Uranium-238	1.92E+03	1.6E-03	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
81	1	Arsenic	1.11E+01	2.7E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
81	1	Beryllium	6.98E-01	4.0E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
81	1	Chromium	6.38E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
81	1	Cobalt	1.58E+01	<1.0E-06	0.3	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg
81	1	Mercury	8.33E+00	<1.0E-06	0.8	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
81	1	Nickel	7.50E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
81	1	PCB, Total	1.60E+02	9.8E-04	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
81	1	Total PAH	4.95E-01	1.0E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
81	1	Uranium	6.50E+03	<1.0E-06	11.2	5.79E+01	5.79E+02	1.74E+03	n/a	n/a	n/a	mg/kg
81	1	Uranium-238	2.29E+00	1.9E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
153	1	Arsenic	9.92E+00	2.4E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
153	1	Chromium	6.59E+01	1.6E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
153	1	Nickel	7.83E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
153	1	PCB, Total	6.00E-01	3.7E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
153	1	Total PAH	7.31E-02	1.5E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
154	1	Arsenic	1.52E+01	3.7E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
154	1	Chromium	7.21E+01	1.8E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
154	1	Nickel	9.89E+01	<1.0E-06	0.2	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
154	1	PCB, Total	3.20E+00	2.0E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
154	1	Total PAH	1.04E+00	2.1E-05	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
154	1	Uranium-238	3.06E+00	2.6E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
154	2	PCB, Total	4.00E-01	2.5E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
155	1	Antimony	3.65E+00	<1.0E-06	0.1	2.70E+00	2.70E+01	8.10E+01	n/a	n/a	n/a	mg/kg
155	1	Arsenic	9.01E+00	2.2E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
155	1	Nickel	7.65E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
155	1	PCB, Total	9.20E+00	5.7E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
156	1	Arsenic	1.11E+01	2.7E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
156	1	Beryllium	1.00E+00	5.8E-05	<0.1	n/a	n/a	n/a	1.74E-02	1.74E-01	1.74E+00	mg/kg
156	1	Chromium	6.31E+01	1.5E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
156	1	Cobalt	1.72E+01	<1.0E-06	0.3	5.75E+00	5.75E+01	1.72E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Excavation/Outdoor Worker Subsurface Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
156	1	Manganese	2.83E+03	<1.0E-06	0.1	1.97E+03	1.97E+04	5.90E+04	n/a	n/a	n/a	mg/kg
156	1	Mercury	9.87E+00	<1.0E-06	0.9	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
156	1	Nickel	6.16E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
156	1	PCB, Total	3.00E-01	1.9E-06	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
156	1	Total PAH	8.26E-02	1.7E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
156	1	Uranium-238	2.19E+00	1.9E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
160	1	Arsenic	8.22E+00	2.0E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
160	1	Chromium	4.63E+01	1.1E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
160	1	Total PAH	1.02E-01	2.1E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
163	1	Arsenic	1.00E+01	2.4E-05	0.2	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
163	1	Chromium	5.89E+01	1.4E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
163	1	Mercury	7.53E+00	<1.0E-06	0.7	1.08E+00	1.08E+01	3.24E+01	n/a	n/a	n/a	mg/kg
163	1	Nickel	7.54E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
163	1	Total PAH	1.07E-01	2.2E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
163	1	Vanadium	3.21E+01	<1.0E-06	17.2	1.87E-01	1.87E+00	5.60E+00	n/a	n/a	n/a	mg/kg
219	1	Neptunium-237	3.31E-01	1.0E-06	<0.1	n/a	n/a	n/a	3.28E-01	3.28E+00	3.28E+01	pCi/g
219	1	Nickel	6.71E+01	<1.0E-06	0.1	5.31E+01	5.31E+02	1.59E+03	n/a	n/a	n/a	mg/kg
219	1	Total PAH	7.50E-02	1.5E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
219	1	Uranium-238	4.40E+00	3.8E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g
488	1	Arsenic	8.89E+00	2.1E-05	0.1	6.65E+00	6.65E+01	1.99E+02	4.15E-01	4.15E+00	4.15E+01	mg/kg
488	1	Cesium-137	5.20E-01	4.5E-06	<0.1	n/a	n/a	n/a	1.15E-01	1.15E+00	1.15E+01	pCi/g
488	1	Chromium	5.31E+01	1.3E-06	<0.1	n/a	n/a	n/a	4.08E+01	4.08E+02	4.08E+03	mg/kg
488	1	PCB, Total	1.03E+01	6.4E-05	<0.1	n/a	n/a	n/a	1.62E-01	1.62E+00	1.62E+01	mg/kg
488	1	Total PAH	2.50E-01	5.1E-06	<0.1	n/a	n/a	n/a	4.85E-02	4.85E-01	4.85E+00	mg/kg
488	1	Uranium-238	4.54E+00	3.9E-06	<0.1	n/a	n/a	n/a	1.17E+00	1.17E+01	1.17E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
1	1	Beryllium	3.89E+00	7.3E-04	0.2	2.51E+00	2.51E+01	7.54E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
1	1	Cadmium	1.10E+00	1.4E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
1	1	Cesium-137	5.91E-01	3.5E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
1	1	Neptunium-237	4.02E-01	7.4E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
1	1	PCB, Total	1.76E-01	2.8E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
1	1	Plutonium-239/240	6.14E+00	2.2E-06	<0.1	n/a	n/a	n/a	2.78E+00	2.78E+01	2.78E+02	pCi/g
1	1	Thorium-230	4.40E+01	1.2E-05	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
1	1	Uranium-235	1.06E-01	1.3E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
1	1	Uranium-238	1.97E+00	5.7E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
1	2	Beryllium	8.23E+00	1.5E-03	0.3	2.51E+00	2.51E+01	7.54E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
1	2	Cadmium	6.46E+00	8.0E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
1	2	Chromium	2.01E+02	1.3E-05	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
1	2	Mercury	5.94E+00	<1.0E-06	1.1	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
1	2	Nickel	5.75E+01	<1.0E-06	0.2	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
1	2	PCB, Total	3.22E+01	5.0E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
1	2	Silver	3.31E+01	<1.0E-06	0.5	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
1	2	Vanadium	3.49E+01	<1.0E-06	39.6	8.81E-02	8.81E-01	2.64E+00	n/a	n/a	n/a	mg/kg
1	3	PCB, Total	2.17E-01	3.4E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
1	3	Uranium-238	1.73E+00	5.0E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
1	4	Beryllium	7.25E-01	1.4E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
1	4	Chromium	9.30E+01	6.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
1	4	Cobalt-60	2.20E-02	6.3E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
1	4	Nickel	4.69E+01	<1.0E-06	0.2	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
1	4	PCB, Total	1.30E-01	2.0E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
1	4	Thorium-230	5.03E+00	1.4E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
1	5	Beryllium	8.30E+00	1.6E-03	0.3	2.51E+00	2.51E+01	7.54E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
1	5	Cadmium	1.20E+00	1.5E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
1	5	Nickel	4.07E+01	<1.0E-06	0.2	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
1	5	PCB, Total	2.70E-01	4.2E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
1	5	Total PAH	9.83E-02	5.1E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
99	1	Chromium	5.51E+01	3.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
99	1	Cobalt-60	1.19E-02	3.4E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
99	1	Mercury	9.53E+00	<1.0E-06	1.8	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
99	1	Nickel	7.02E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
99	1	Silver	1.03E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
99	1	Uranium-238	9.45E-01	2.7E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
194	1	Antimony	1.50E+00	<1.0E-06	0.1	1.46E+00	1.46E+01	4.38E+01	n/a	n/a	n/a	mg/kg
194	1	Chromium	3.87E+01	2.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	1	Mercury	6.71E+00	<1.0E-06	1.3	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
194	1	Nickel	5.84E+01	<1.0E-06	0.2	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	1	Silver	1.09E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
194	2	Chromium	5.96E+01	3.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	2	Silver	1.31E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
194	2	Uranium-238	1.42E+00	4.1E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
194	3	Arsenic	1.46E+01	6.2E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	3	Chromium	3.90E+01	2.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	3	Nickel	6.40E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	3	Total PAH	3.93E-02	2.0E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	3	Uranium-238	1.28E+00	3.7E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
194	4	Chromium	4.84E+01	3.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	4	Mercury	8.92E+00	<1.0E-06	1.7	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
194	4	Nickel	6.91E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	4	Silver	1.18E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
194	4	Total PAH	7.30E-02	3.8E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	4	Uranium-238	1.73E+00	5.0E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
194	5	Chromium	4.58E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	5	Mercury	8.69E+00	<1.0E-06	1.7	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
194	5	Nickel	7.54E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	5	Silver	1.25E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
194	5	Total PAH	2.37E-02	1.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	5	Uranium-238	1.38E+00	4.0E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
194	6	Chromium	3.70E+01	2.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	6	Nickel	8.06E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	6	Silver	9.89E+00	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
194	6	Uranium-238	1.32E+00	3.8E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
194	7	Chromium	5.32E+01	3.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	7	Nickel	7.71E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	7	Silver	1.25E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
194	8	Chromium	5.36E+01	3.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	8	Total PAH	4.85E-01	2.5E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	8	Uranium-238	1.39E+00	4.0E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
194	9	Arsenic	1.14E+01	4.8E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	9	Chromium	5.17E+01	3.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	10	Arsenic	1.22E+01	5.2E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	10	Cesium-137	5.81E-01	3.4E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
194	10	Chromium	3.63E+01	2.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	10	Nickel	7.60E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	10	Total PAH	2.57E-01	1.3E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	10	Uranium-238	1.49E+00	4.3E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
194	11	Chromium	3.27E+01	2.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	11	Mercury	8.09E+00	<1.0E-06	1.5	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
194	11	Nickel	1.01E+02	<1.0E-06	0.4	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	11	PCB, Total	8.40E-02	1.3E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
194	11	Silver	1.33E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
194	11	Total PAH	7.95E-02	4.1E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	12	Chromium	6.34E+01	4.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	12	Nickel	7.86E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	12	Silver	1.20E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
194	12	Total PAH	8.91E-01	4.6E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	13	Chromium	4.77E+01	3.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	13	Nickel	6.03E+01	<1.0E-06	0.2	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	13	Total PAH	9.13E-02	4.7E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	14	Chromium	5.21E+01	3.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	14	Mercury	8.14E+00	<1.0E-06	1.6	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
194	15	Chromium	5.33E+01	3.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	15	Silver	1.03E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
194	16	Arsenic	1.15E+01	4.9E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	16	Beryllium	8.70E-01	1.6E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
194	16	Chromium	5.32E+01	3.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	16	Nickel	7.20E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	16	Vanadium	4.11E+01	<1.0E-06	46.7	8.81E-02	8.81E-01	2.64E+00	n/a	n/a	n/a	mg/kg
194	17	Arsenic	1.16E+01	4.9E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	17	Cadmium	1.10E+00	1.4E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
194	17	Chromium	4.65E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	17	Total PAH	1.59E-01	8.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	18	Arsenic	1.06E+01	4.5E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	18	Beryllium	7.40E-01	1.4E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
194	18	Chromium	6.85E+01	4.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	18	Nickel	5.78E+01	<1.0E-06	0.2	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	19	Arsenic	1.07E+01	4.5E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	19	Chromium	4.84E+01	3.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	19	Nickel	5.84E+01	<1.0E-06	0.2	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	20	Arsenic	1.18E+01	5.0E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	20	Beryllium	1.10E+00	2.1E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
194	20	Chromium	5.24E+01	3.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	20	Cobalt	2.11E+01	<1.0E-06	0.4	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg
194	20	Manganese	2.29E+03	<1.0E-06	0.1	1.90E+03	1.90E+04	5.69E+04	n/a	n/a	n/a	mg/kg
194	20	Mercury	7.28E+00	<1.0E-06	1.4	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
194	20	Nickel	6.57E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	20	Silver	1.22E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
194	20	Total PAH	3.10E-02	1.6E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	20	Vanadium	3.81E+01	<1.0E-06	43.2	8.81E-02	8.81E-01	2.64E+00	n/a	n/a	n/a	mg/kg
194	21	Chromium	5.51E+01	3.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	21	Mercury	6.62E+00	<1.0E-06	1.3	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
194	21	Nickel	7.01E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	22	Chromium	4.90E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	22	PCB, Total	1.09E+01	1.7E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
194	23	Arsenic	1.16E+01	4.9E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	23	Chromium	6.60E+01	4.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	23	Iron	1.83E+04	<1.0E-06	0.1	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
194	23	Nickel	8.77E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	23	Silver	1.15E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
194	24	Chromium	5.02E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	24	Nickel	7.08E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	24	Total PAH	2.28E-02	1.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	25	Chromium	6.13E+01	3.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	25	Nickel	6.33E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	25	Total PAH	2.06E-02	1.1E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	26	Beryllium	7.00E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	26	Chromium	4.18E+01	2.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	26	Silver	1.03E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
194	27	Chromium	5.22E+01	3.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	27	Nickel	6.55E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	27	Silver	1.01E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
194	28	Arsenic	1.20E+01	5.1E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	28	Beryllium	7.10E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
194	28	Chromium	6.07E+01	3.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	28	Nickel	6.95E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	28	Silver	1.08E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
194	28	Vanadium	4.06E+01	<1.0E-06	46.1	8.81E-02	8.81E-01	2.64E+00	n/a	n/a	n/a	mg/kg
194	29	Chromium	5.06E+01	3.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	29	Nickel	6.51E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	29	Silver	9.77E+00	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
194	30	Chromium	5.66E+01	3.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	30	Mercury	8.80E+00	<1.0E-06	1.7	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
194	30	Nickel	6.99E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
194	30	Silver	9.76E+00	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
194	31	Cesium-137	5.70E-01	3.3E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
194	31	Uranium-238	1.72E+00	5.0E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
196	1	Chromium	1.96E+01	1.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
196	1	Neptunium-237	3.11E-01	5.8E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
196	1	Nickel	5.56E+02	<1.0E-06	2.2	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
196	1	Uranium-238	1.54E+00	4.5E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
196	2	Cadmium	2.53E+00	3.1E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
196	2	Chromium	2.07E+01	1.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
196	2	Nickel	7.36E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
196	2	PCB, Total	1.51E+00	2.4E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
196	2	Total PAH	6.80E-01	3.5E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
196	2	Uranium-238	2.21E+00	6.4E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
211	1	Chromium	4.48E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
211	1	Neptunium-237	1.46E-01	2.7E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
211	1	PCB, Total	3.60E-01	5.6E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
211	1	Total PAH	1.04E-01	5.3E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
211	1	Uranium-235	2.12E-01	2.7E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
211	1	Uranium-238	5.84E+00	1.7E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
483	1	Nickel	1.17E+02	<1.0E-06	0.5	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
483	1	Silver	1.12E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
483	1	Total PAH	2.39E-02	1.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
489	1	Chromium	4.16E+01	2.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
489	1	Nickel	7.88E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
489	1	Total PAH	8.22E-02	4.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
489	1	Uranium-238	1.47E+00	4.2E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
531	1	Arsenic	4.68E+01	2.0E-04	0.6	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
531	1	Cadmium	3.10E+00	3.8E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
531	1	Chromium	5.05E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
531	1	Iron	5.68E+04	<1.0E-06	0.4	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
531	1	Lead	5.31E+02									mg/kg
531	1	Nickel	1.62E+02	<1.0E-06	0.6	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
531	1	Total PAH	5.34E-02	2.7E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
531	1	Uranium-235	1.38E-01	1.8E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
531	1	Uranium-238	3.48E+00	1.0E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
47	1	Arsenic	4.52E+01	1.9E-04	0.6	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
47	1	Beryllium	7.00E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
47	1	Cadmium	4.25E+00	5.3E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
47	1	Chromium	5.39E+01	3.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
47	1	Cobalt	1.43E+01	<1.0E-06	0.3	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg
47	1	Iron	2.95E+04	<1.0E-06	0.2	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
47	1	Naphthalene	1.90E+00	1.7E-06	<0.1	n/a	n/a	n/a	1.14E+00	1.14E+01	1.14E+02	mg/kg
47	1	Neptunium-237	1.15E-01	2.1E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
47	1	Nickel	8.25E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
47	1	PCB, Total	9.60E-01	1.5E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
47	1	Plutonium-239/240	4.11E+00	1.5E-06	<0.1	n/a	n/a	n/a	2.78E+00	2.78E+01	2.78E+02	pCi/g
47	1	Thorium-230	4.11E+01	1.1E-05	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
47	1	Total PAH	5.41E+01	2.8E-03	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
47	1	Uranium-234	6.85E+00	1.4E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
47	1	Uranium-235	5.00E-01	6.4E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
47	1	Uranium-238	7.93E+00	2.3E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
200	1	Cesium-137	5.74E-01	3.4E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
200	1	Chromium	5.75E+01	3.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
200	1	Mercury	6.71E+00	<1.0E-06	1.3	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
200	1	Nickel	1.28E+02	<1.0E-06	0.5	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
200	1	PCB, Total	2.60E+00	4.1E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
200	1	Total PAH	2.84E-02	1.5E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
200	1	Uranium-235	1.43E-01	1.8E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
200	1	Uranium-238	3.58E+00	1.0E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
212	1	Arsenic	1.44E+01	6.1E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
212	1	Beryllium	8.10E-01	1.5E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
212	1	Cesium-137	6.01E-01	3.5E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
212	1	Chromium	3.58E+01	2.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
212	1	Cobalt-60	8.76E-03	2.5E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
212	1	Iron	4.14E+04	<1.0E-06	0.3	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
212	1	Neptunium-237	4.00E+00	7.4E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
212	1	Nickel	8.69E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
212	1	PCB, Total	1.80E-01	2.8E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
212	1	Plutonium-239/240	6.71E+00	2.4E-06	<0.1	n/a	n/a	n/a	2.78E+00	2.78E+01	2.78E+02	pCi/g
212	1	Thorium-230	2.60E+02	7.3E-05	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
212	1	Uranium-235	2.09E-01	2.7E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
212	1	Uranium-238	3.17E+00	9.2E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
213	1	Chromium	4.78E+01	3.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
213	1	Nickel	6.67E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
213	1	PCB, Total	7.30E-02	1.1E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
213	1	Silver	1.32E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
213	1	Total PAH	1.72E-01	8.8E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
213	1	Uranium-238	2.33E+00	6.7E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
213	2	Chromium	4.48E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
213	2	Nickel	9.10E+01	<1.0E-06	0.4	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
213	2	Silver	1.13E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
215	1	Chromium	5.73E+01	3.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
215	1	Iron	3.87E+04	<1.0E-06	0.3	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
215	1	Nickel	7.32E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
215	1	Total PAH	8.09E-02	4.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
216	1	Chromium	2.38E+01	1.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
216	1	Total PAH	1.49E-01	7.7E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
216	1	Uranium-238	1.33E+00	3.8E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
217	1	Chromium	8.58E+01	5.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
217	1	Cobalt	1.96E+01	<1.0E-06	0.3	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg
217	1	Nickel	8.54E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
217	1	Silver	1.35E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
217	1	Uranium-238	1.15E+00	3.3E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
217	2	Antimony	1.70E+00	<1.0E-06	0.1	1.46E+00	1.46E+01	4.38E+01	n/a	n/a	n/a	mg/kg
217	2	Arsenic	1.12E+01	4.7E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
217	2	Chromium	1.02E+02	6.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
217	2	Cobalt	1.74E+01	<1.0E-06	0.3	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg
217	2	Iron	3.09E+04	<1.0E-06	0.2	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
217	2	Mercury	8.59E+00	<1.0E-06	1.6	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
217	2	Nickel	9.74E+01	<1.0E-06	0.4	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
217	2	Silver	1.61E+01	<1.0E-06	0.3	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
217	2	Total PAH	5.05E-01	2.6E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
221	1	Chromium	7.01E+01	4.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
221	1	Iron	1.90E+04	<1.0E-06	0.1	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
221	1	Nickel	7.93E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
221	1	PCB, Total	5.00E-01	7.8E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
221	1	Total PAH	1.02E+00	5.3E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
221	1	Uranium-238	1.93E+00	5.6E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
222	1	Chromium	4.73E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
222	1	Nickel	9.19E+01	<1.0E-06	0.4	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
222	1	PCB, Total	1.40E+00	2.2E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
222	1	Total PAH	1.77E-01	9.1E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
222	1	Uranium-234	1.04E+01	2.2E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
222	1	Uranium-235	7.10E-01	9.0E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
222	1	Uranium-238	1.96E+01	5.7E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
224	1	Chromium	4.49E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
224	1	PCB, Total	4.75E+02	7.4E-03	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
224	1	Total PAH	4.53E+01	2.3E-03	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
224	1	Uranium-235	2.50E-01	3.2E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
224	1	Uranium-238	2.64E+01	7.6E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
225	1	Chromium	2.55E+01	1.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
225	1	Total PAH	7.79E-02	4.0E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
225	1	Uranium-238	2.04E+00	5.9E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
226	1	Americium-241	1.62E+00	1.5E-06	<0.1	n/a	n/a	n/a	1.09E+00	1.09E+01	1.09E+02	pCi/g
226	1	Cesium-137	2.65E+00	1.6E-04	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
226	1	Chromium	4.25E+01	2.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
226	1	Mercury	9.74E+00	<1.0E-06	1.9	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
226	1	Neptunium-237	1.60E+02	3.0E-03	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
226	1	Nickel	2.10E+02	<1.0E-06	0.8	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
226	1	PCB, Total	1.49E+00	2.3E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
226	1	Plutonium-239/240	6.52E+00	2.3E-06	<0.1	n/a	n/a	n/a	2.78E+00	2.78E+01	2.78E+02	pCi/g
226	1	Thorium-230	4.77E+01	1.3E-05	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
226	1	Total PAH	9.19E-02	4.7E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
226	1	Uranium	4.01E+02	<1.0E-06	0.7	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
226	1	Uranium-234	2.29E+01	4.8E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
226	1	Uranium-235	1.10E+00	1.4E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
226	1	Uranium-238	2.40E+01	6.9E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
227	1	Beryllium	5.52E-01	1.0E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
227	1	Cesium-137	1.90E-01	1.1E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
227	1	Chromium	4.71E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
227	1	Cobalt-60	1.53E-02	4.4E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
227	1	Neptunium-237	9.05E-01	1.7E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
227	1	Nickel	2.03E+02	<1.0E-06	0.8	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
227	1	PCB, Total	4.14E+00	6.5E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
227	1	Total PAH	3.38E-01	1.7E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
227	1	Uranium	1.02E+02	<1.0E-06	0.2	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
227	1	Uranium-234	1.54E+01	3.2E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
227	1	Uranium-235	1.49E+00	1.9E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
227	1	Uranium-238	4.63E+01	1.3E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
227	2	Beryllium	5.32E-01	1.0E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
227	2	Chromium	5.63E+01	3.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
227	2	Cobalt	8.99E+00	<1.0E-06	0.2	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg
227	2	Cobalt-60	1.37E-02	3.9E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
227	2	Mercury	8.41E+00	<1.0E-06	1.6	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
227	2	Nickel	1.25E+02	<1.0E-06	0.5	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
227	2	PCB, Total	5.82E+00	9.1E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
227	2	Total PAH	1.16E-01	6.0E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
227	2	Uranium-238	1.57E+00	4.5E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
228	1	Cadmium	3.90E+00	4.8E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
228	1	Chromium	1.89E+02	1.2E-05	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
228	1	Mercury	9.37E+00	<1.0E-06	1.8	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
228	1	Neptunium-237	8.00E-01	1.5E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
228	1	Nickel	7.92E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
228	1	Silver	1.16E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
228	1	Total PAH	6.69E-02	3.4E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
228	1	Uranium-235	1.78E-01	2.3E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
228	1	Uranium-238	3.77E+00	1.1E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
229	1	Nickel	9.14E+01	<1.0E-06	0.4	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
229	1	Total PAH	1.57E-01	8.1E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
229	1	Uranium	1.56E+02	<1.0E-06	0.3	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
229	1	Uranium-238	2.86E+00	8.3E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
229	2	Arsenic	2.12E+01	9.0E-05	0.3	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
229	2	Beryllium	7.90E-01	1.5E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
229	2	Chromium	2.91E+01	1.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
229	2	Neptunium-237	2.87E-01	5.3E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
229	2	Nickel	9.93E+01	<1.0E-06	0.4	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
229	2	Total PAH	1.69E+00	8.7E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
229	2	Uranium	7.45E+01	<1.0E-06	0.1	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
229	2	Uranium-234	1.22E+01	2.5E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
229	2	Uranium-235	8.40E-01	1.1E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
229	2	Uranium-238	2.49E+01	7.2E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
26	1	Arsenic	1.29E+01	5.5E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
26	1	Beryllium	6.69E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
26	1	Cadmium	1.99E+00	2.5E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
26	1	Cesium-137	3.16E+00	1.9E-04	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
26	1	Chromium	1.90E+01	1.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
26	1	Neptunium-237	2.61E-01	4.8E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
26	1	PCB, Total	9.33E-01	1.5E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
26	1	Plutonium-239/240	4.04E+00	1.5E-06	<0.1	n/a	n/a	n/a	2.78E+00	2.78E+01	2.78E+02	pCi/g
26	1	Thorium-230	3.82E+00	1.1E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
26	1	Total PAH	5.00E-02	2.6E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
26	1	Uranium	1.29E+02	<1.0E-06	0.2	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
26	1	Uranium-235	6.41E-01	8.1E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
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HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
26	1	Uranium-238	3.47E+01	1.0E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
26	2	Aluminum	2.17E+04	<1.0E-06	0.1	1.82E+04	1.82E+05	5.47E+05	n/a	n/a	n/a	mg/kg
26	2	Arsenic	4.72E+01	2.0E-04	0.6	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
26	2	Beryllium	9.69E+00	1.8E-03	0.4	2.51E+00	2.51E+01	7.54E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
26	2	Cadmium	2.38E+00	2.9E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
26	2	Cesium-137	5.92E+00	3.5E-04	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
26	2	Chromium	3.90E+01	2.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
26	2	Cobalt	5.20E+01	<1.0E-06	0.9	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg
26	2	Iron	5.32E+04	<1.0E-06	0.4	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
26	2	Neptunium-237	7.89E-01	1.5E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
26	2	Nickel	1.13E+02	<1.0E-06	0.5	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
26	2	PCB, Total	2.23E+00	3.5E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
26	2	Thallium	1.39E+01	<1.0E-06	0.9	1.52E+00	1.52E+01	4.55E+01	n/a	n/a	n/a	mg/kg
26	2	Thorium-230	1.51E+01	4.2E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
26	2	Uranium	6.46E+02	<1.0E-06	1.1	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
26	2	Uranium-234	1.91E+01	4.0E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
26	2	Uranium-235	1.71E+00	2.2E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
26	2	Uranium-238	5.14E+01	1.5E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
26	2	Vanadium	3.13E+01	<1.0E-06	35.5	8.81E-02	8.81E-01	2.64E+00	n/a	n/a	n/a	mg/kg
26	3	Arsenic	5.09E+01	2.2E-04	0.6	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
26	3	Barium	4.48E+02	<1.0E-06	0.1	3.47E+02	3.47E+03	1.04E+04	n/a	n/a	n/a	mg/kg
26	3	Beryllium	2.54E+00	4.8E-04	0.1	2.51E+00	2.51E+01	7.54E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
26	3	Cadmium	2.34E+00	2.9E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
26	3	Cesium-137	7.48E-01	4.4E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
26	3	Chromium	3.25E+01	2.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
26	3	Cobalt	1.21E+01	<1.0E-06	0.2	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg
26	3	Naphthalene	1.32E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.14E+00	1.14E+01	1.14E+02	mg/kg
26	3	Neptunium-237	7.53E-01	1.4E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
26	3	Nickel	2.97E+01	<1.0E-06	0.1	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
26	3	PCB, Total	2.52E+00	3.9E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
26	3	Silver	2.59E+01	<1.0E-06	0.4	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
26	3	Thorium-230	7.10E+00	2.0E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
26	3	Total PAH	1.19E+00	6.1E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
26	3	Uranium	9.88E+01	<1.0E-06	0.2	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
26	3	Uranium-234	4.63E+01	9.6E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
26	3	Uranium-235	1.69E+00	2.1E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
26	3	Uranium-238	5.19E+01	1.5E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
26	3	Vanadium	3.77E+01	<1.0E-06	42.8	8.81E-02	8.81E-01	2.64E+00	n/a	n/a	n/a	mg/kg
26	4	Americium-241	1.27E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.09E+00	1.09E+01	1.09E+02	pCi/g
26	4	Beryllium	6.91E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
26	4	Cadmium	1.99E+00	2.5E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
26	4	Cesium-137	6.38E-01	3.7E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
26	4	Chromium	8.57E+01	5.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
26	4	Lead	1.19E+02									mg/kg
26	4	Mercury	3.07E+00	<1.0E-06	0.6	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
26	4	Neptunium-237	1.36E+01	2.5E-04	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
26	4	Nickel	7.54E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
26	4	PCB, Total	5.54E-01	8.7E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
26	4	Plutonium-239/240	5.00E+00	1.8E-06	<0.1	n/a	n/a	n/a	2.78E+00	2.78E+01	2.78E+02	pCi/g
26	4	Technetium-99	5.97E+02	6.9E-06	<0.1	n/a	n/a	n/a	8.67E+01	8.67E+02	8.67E+03	pCi/g
26	4	Thorium-230	3.26E+01	9.1E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
26	4	Total PAH	2.83E-02	1.5E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
26	4	Uranium	9.75E+02	<1.0E-06	1.7	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
26	4	Uranium-234	1.54E+02	3.2E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
26	4	Uranium-235	1.08E+01	1.4E-04	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
26	4	Uranium-238	3.66E+02	1.1E-03	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
76	1	PCB, Total	2.60E-01	4.1E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
76	1	Total PAH	1.76E+00	9.0E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
76	1	Uranium-238	1.45E+00	4.2E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
165	1	Antimony	2.20E+00	<1.0E-06	0.2	1.46E+00	1.46E+01	4.38E+01	n/a	n/a	n/a	mg/kg
165	1	Arsenic	6.35E+01	2.7E-04	0.8	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
165	1	Barium	5.84E+02	<1.0E-06	0.2	3.47E+02	3.47E+03	1.04E+04	n/a	n/a	n/a	mg/kg
165	1	Beryllium	6.82E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
165	1	Cesium-137	3.47E+00	2.0E-04	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
165	1	Chromium	3.74E+01	2.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
165	1	Naphthalene	1.61E+00	1.4E-06	<0.1	n/a	n/a	n/a	1.14E+00	1.14E+01	1.14E+02	mg/kg
165	1	Neptunium-237	4.26E-01	7.9E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
165	1	Nickel	3.47E+01	<1.0E-06	0.1	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
165	1	PCB, Total	8.27E+00	1.3E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
165	1	Plutonium-239/240	2.81E+00	1.0E-06	<0.1	n/a	n/a	n/a	2.78E+00	2.78E+01	2.78E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
165	1	Silver	3.09E+01	<1.0E-06	0.5	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
165	1	Thorium-230	6.02E+00	1.7E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
165	1	Total PAH	1.87E+00	9.6E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
165	1	Uranium	1.08E+02	<1.0E-06	0.2	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
165	1	Uranium-234	5.76E+01	1.2E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
165	1	Uranium-235	2.05E+00	2.6E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
165	1	Uranium-238	6.41E+01	1.9E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
170	1	Neptunium-237	1.15E-01	2.1E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
170	1	Uranium-238	1.53E+00	4.4E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
158	1	Arsenic	1.01E+01	4.3E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
158	1	Chromium	6.07E+01	3.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
158	1	Cobalt	1.62E+01	<1.0E-06	0.3	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg
158	1	Mercury	1.05E+01	<1.0E-06	2.0	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
158	1	Nickel	7.28E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
158	1	Total PAH	3.69E-01	1.9E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
158	1	Uranium-235	1.63E-01	2.1E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
158	1	Uranium-238	3.79E+00	1.1E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
169	1	Arsenic	2.03E+01	8.6E-05	0.3	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
169	1	Beryllium	8.00E-01	1.5E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
169	1	Chromium	2.15E+02	1.4E-05	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
169	1	Iron	4.16E+04	<1.0E-06	0.3	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
169	1	Mercury	7.87E+00	<1.0E-06	1.5	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
169	1	Nickel	5.49E+02	<1.0E-06	2.2	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
169	1	PCB, Total	1.00E+01	1.6E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
169	1	Total PAH	4.59E+00	2.4E-04	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
169	1	Uranium-234	6.55E+00	1.4E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
169	1	Uranium-235	4.60E-01	5.8E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
169	1	Uranium-238	8.12E+00	2.3E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
176	1	Arsenic	4.86E+01	2.1E-04	0.6	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
176	1	Chromium	4.27E+01	2.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
176	1	Lead	4.45E+02									mg/kg
176	1	Nickel	1.07E+02	<1.0E-06	0.4	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
19	1	Beryllium	1.10E+00	2.1E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
19	1	Cadmium	1.20E+00	1.5E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
19	1	Total PAH	5.23E+00	2.7E-04	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
138	1	Antimony	5.39E+00	<1.0E-06	0.4	1.46E+00	1.46E+01	4.38E+01	n/a	n/a	n/a	mg/kg
138	1	Arsenic	1.06E+01	4.5E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
138	1	Cadmium	5.42E+00	6.7E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
138	1	Chromium	5.39E+01	3.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
138	1	Mercury	1.30E+01	<1.0E-06	2.5	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
138	1	Nickel	7.04E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
138	1	PCB, Total	5.00E-01	7.8E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
138	1	Silver	1.01E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
138	1	Total PAH	9.74E-02	5.0E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
138	2	Nickel	7.99E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
138	2	PCB, Total	9.20E-02	1.4E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
138	2	Silver	1.04E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
138	2	Total PAH	3.84E-02	2.0E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
180	1	Arsenic	7.48E+01	3.2E-04	0.9	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
180	1	Chromium	5.54E+01	3.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
180	1	Lead	1.99E+03									mg/kg
180	1	Mercury	8.28E+00	<1.0E-06	1.6	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
180	1	Nickel	8.77E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
180	2	Arsenic	1.27E+01	5.4E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
180	2	Chromium	4.46E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
180	2	Nickel	8.42E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
180	2	Total PAH	9.19E-02	4.7E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
180	3	Arsenic	1.34E+01	5.7E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
180	3	Chromium	4.69E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
180	3	Nickel	6.77E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
180	3	Silver	1.14E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
180	4	Arsenic	1.15E+01	4.9E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
180	4	Beryllium	1.60E+00	3.0E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
180	4	Chromium	6.00E+01	3.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
180	4	Iron	1.54E+04	<1.0E-06	0.1	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
180	4	Nickel	6.46E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
180	4	Silver	9.68E+00	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
180	4	Total PAH	2.15E-02	1.1E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
180	4	Vanadium	4.85E+01	<1.0E-06	55.0	8.81E-02	8.81E-01	2.64E+00	n/a	n/a	n/a	mg/kg
181	1	Chromium	2.29E+01	1.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
181	1	Thallium	3.50E+00	<1.0E-06	0.2	1.52E+00	1.52E+01	4.55E+01	n/a	n/a	n/a	mg/kg
181	1	Total PAH	3.43E-02	1.8E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
195	1	Chromium	6.33E+01	4.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	1	Nickel	7.02E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
195	1	Silver	9.37E+00	<1.0E-06	0.1	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
195	2	Chromium	4.52E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	2	Silver	9.48E+00	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
195	2	Total PAH	2.68E-02	1.4E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
195	3	Chromium	5.03E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	3	Nickel	5.22E+01	<1.0E-06	0.2	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
195	3	Total PAH	4.06E-02	2.1E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
195	4	Chromium	5.29E+01	3.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	4	Nickel	6.23E+01	<1.0E-06	0.2	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
195	5	Chromium	5.74E+01	3.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	5	Nickel	8.11E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
195	5	Total PAH	2.40E-02	1.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
195	6	Chromium	4.45E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	6	Nickel	8.71E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
195	6	Total PAH	2.48E-01	1.3E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
195	7	Chromium	4.93E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	7	Silver	8.06E+00	<1.0E-06	0.1	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
195	8	Arsenic	1.16E+01	4.9E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
195	8	Beryllium	7.40E-01	1.4E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
195	8	Chromium	6.79E+01	4.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	8	Cobalt	1.82E+01	<1.0E-06	0.3	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg
195	8	Nickel	7.01E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
195	8	Total PAH	2.16E-01	1.1E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
195	8	Vanadium	4.04E+01	<1.0E-06	45.9	8.81E-02	8.81E-01	2.64E+00	n/a	n/a	n/a	mg/kg
195	9	Chromium	6.08E+01	3.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	9	Nickel	7.93E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
195	10	Chromium	4.51E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	10	Nickel	7.40E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
195	10	Silver	1.31E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
195	11	Aluminum	2.81E+04	<1.0E-06	0.2	1.82E+04	1.82E+05	5.47E+05	n/a	n/a	n/a	mg/kg
195	11	Arsenic	1.35E+01	5.7E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
195	11	Barium	4.53E+02	<1.0E-06	0.1	3.47E+02	3.47E+03	1.04E+04	n/a	n/a	n/a	mg/kg
195	11	Chromium	5.05E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	11	Cobalt	2.77E+01	<1.0E-06	0.5	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg
195	11	Iron	1.97E+04	<1.0E-06	0.1	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
195	11	Nickel	6.77E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
195	11	Vanadium	7.97E+01	<1.0E-06	90.5	8.81E-02	8.81E-01	2.64E+00	n/a	n/a	n/a	mg/kg
195	12	Beryllium	7.50E-01	1.4E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
195	12	Chromium	7.04E+01	4.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	12	Nickel	6.78E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
195	13	Chromium	6.55E+01	4.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	13	Nickel	6.91E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
195	14	Chromium	5.94E+01	3.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	14	Nickel	7.04E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
195	15	Chromium	4.82E+01	3.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	16	Chromium	4.45E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	16	Nickel	8.16E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
195	17	Chromium	8.22E+01	5.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	17	Nickel	5.93E+01	<1.0E-06	0.2	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
195	17	PCB, Total	7.40E-01	1.2E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
195	17	Silver	1.01E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
195	17	Total PAH	3.16E-01	1.6E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
195	17	Uranium-235	1.32E-01	1.7E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
195	17	Uranium-238	2.48E+00	7.2E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
204	1	Beryllium	1.36E+00	2.6E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
204	1	Cadmium	2.73E+00	3.4E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
204	1	Chromium	7.40E+01	4.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
204	1	Iron	4.19E+04	<1.0E-06	0.3	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
204	1	PCB, Total	2.53E+00	4.0E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
204	1	Uranium-235	1.80E-01	2.3E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
204	1	Uranium-238	5.20E+00	1.5E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
204	1	Vanadium	7.55E+01	<1.0E-06	85.7	8.81E-02	8.81E-01	2.64E+00	n/a	n/a	n/a	mg/kg
204	2	Chromium	1.80E+01	1.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
204	2	PCB, Total	1.70E-01	2.7E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
204	3	Chromium	2.06E+01	1.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
204	3	Uranium-238	2.50E+00	7.2E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
204	4	Chromium	2.89E+01	1.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
204	4	Uranium-235	1.88E-01	2.4E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
204	4	Uranium-238	9.72E+00	2.8E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
204	18	Cesium-137	6.30E-01	3.7E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
204	18	Uranium-235	1.25E-01	1.6E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
204	18	Uranium-238	5.37E+00	1.6E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
204	23	Americium-241	3.71E+00	3.4E-06	<0.1	n/a	n/a	n/a	1.09E+00	1.09E+01	1.09E+02	pCi/g
204	23	Beryllium	1.33E+00	2.5E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
204	23	Cesium-137	1.17E+00	6.9E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
204	23	Chromium	1.75E+02	1.1E-05	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
204	23	Cobalt-60	1.23E-02	3.5E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
204	23	PCB, Total	7.90E+01	1.2E-03	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
204	23	Uranium	1.31E+04	<1.0E-06	23.0	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
204	23	Uranium-234	4.45E+02	9.2E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
204	23	Uranium-235	5.70E+01	7.2E-04	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
204	23	Uranium-238	4.39E+03	1.3E-02	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
486	1	Cesium-137	1.71E+00	1.00E-04	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
487	1	Cesium-137	1.38E+00	8.10E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
492	1	Arsenic	1.47E+01	6.2E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
492	1	Beryllium	1.04E+01	2.0E-03	0.4	2.51E+00	2.51E+01	7.54E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
492	1	Cadmium	3.14E+00	3.9E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
492	1	Chromium	1.04E+03	6.7E-05	0.2	4.97E+02	4.97E+03	1.49E+04	1.55E+01	1.55E+02	1.55E+03	mg/kg
492	1	Cobalt-60	9.63E-03	2.7E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
492	1	Neptunium-237	2.09E-01	3.9E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
492	1	PCB, Total	4.41E+01	6.9E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
492	1	Uranium	1.77E+03	<1.0E-06	3.1	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
492	1	Uranium-234	5.39E+01	1.1E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
492	1	Uranium-235	5.72E+00	7.3E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
492	1	Uranium-238	3.83E+02	1.1E-03	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
492	1	Vanadium	4.32E+01	<1.0E-06	49.0	8.81E-02	8.81E-01	2.64E+00	n/a	n/a	n/a	mg/kg
493	1	Barium	4.04E+02	<1.0E-06	0.1	3.47E+02	3.47E+03	1.04E+04	n/a	n/a	n/a	mg/kg
493	1	Beryllium	9.91E-01	1.9E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
493	1	Chromium	6.61E+01	4.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
493	1	Cobalt	3.79E+01	<1.0E-06	0.7	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg
493	1	Cobalt-60	1.36E-02	3.9E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
493	1	Manganese	3.55E+03	<1.0E-06	0.2	1.90E+03	1.90E+04	5.69E+04	n/a	n/a	n/a	mg/kg
493	1	Neptunium-237	1.22E-01	2.3E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
493	1	Nickel	2.13E+02	<1.0E-06	0.8	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
493	1	PCB, Total	2.60E-01	4.1E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
493	1	Total PAH	5.00E-01	2.6E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
493	1	Uranium-235	1.65E-01	2.1E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
493	1	Uranium-238	5.50E+00	1.6E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
493	1	Vanadium	4.05E+01	<1.0E-06	46.0	8.81E-02	8.81E-01	2.64E+00	n/a	n/a	n/a	mg/kg
517	1	Beryllium	7.39E-01	1.4E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
517	1	Chromium	4.91E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
517	1	Cobalt-60	6.39E-03	1.8E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
517	1	Neptunium-237	1.07E+00	2.0E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
517	1	Nickel	1.72E+02	<1.0E-06	0.7	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
517	1	PCB, Total	5.00E-01	7.8E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
517	1	Uranium-235	1.60E-01	2.0E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
517	1	Uranium-238	3.89E+00	1.1E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
541	1	Americium-241	7.53E+00	6.9E-06	<0.1	n/a	n/a	n/a	1.09E+00	1.09E+01	1.09E+02	pCi/g
541	1	Beryllium	6.98E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
541	1	Cadmium	1.68E+00	2.1E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
541	1	Cesium-137	9.58E-01	5.6E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
541	1	Chromium	8.24E+02	5.3E-05	0.2	4.97E+02	4.97E+03	1.49E+04	1.55E+01	1.55E+02	1.55E+03	mg/kg
541	1	Cobalt-60	1.01E-02	2.9E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
541	1	Iron	1.60E+04	<1.0E-06	0.1	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
541	1	Neptunium-237	5.52E-02	1.0E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
541	1	PCB, Total	6.06E+01	9.5E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
541	1	Total PAH	2.33E+00	1.2E-04	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
541	1	Uranium	6.38E+03	<1.0E-06	11.2	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
541	1	Uranium-234	1.43E+02	3.0E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
541	1	Uranium-235	1.76E+01	2.2E-04	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
541	1	Uranium-238	1.00E+03	2.9E-03	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
541	1	Vanadium	3.04E+01	<1.0E-06	34.6	8.81E-02	8.81E-01	2.64E+00	n/a	n/a	n/a	mg/kg
561	1	Arsenic	1.66E+01	7.0E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
561	1	Beryllium	6.85E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
561	1	Chromium	8.58E+01	5.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
561	1	Cobalt	1.07E+01	<1.0E-06	0.2	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
561	1	Cobalt-60	7.06E-02	2.0E-05	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
561	1	Iron	2.05E+04	<1.0E-06	0.2	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
561	1	PCB, Total	1.04E+00	1.6E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
561	1	Total PAH	1.65E-01	8.5E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
561	1	Uranium	2.65E+02	<1.0E-06	0.5	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
561	1	Uranium-234	7.84E+00	1.6E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
561	1	Uranium-235	1.37E+00	1.7E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
561	1	Uranium-238	1.07E+02	3.1E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
561	1	Vanadium	3.76E+01	<1.0E-06	42.7	8.81E-02	8.81E-01	2.64E+00	n/a	n/a	n/a	mg/kg
561	2	Antimony	5.33E+00	<1.0E-06	0.4	1.46E+00	1.46E+01	4.38E+01	n/a	n/a	n/a	mg/kg
561	2	Arsenic	1.30E+01	5.5E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
561	2	Beryllium	6.34E-01	1.2E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
561	2	Cesium-137	4.09E-01	2.4E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
561	2	Chromium	2.88E+02	1.9E-05	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
561	2	Cobalt	1.14E+01	<1.0E-06	0.2	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg
561	2	Cobalt-60	2.76E-02	7.9E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
561	2	PCB, Total	1.64E+01	2.6E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
561	2	Total PAH	4.43E-01	2.3E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
561	2	Uranium	1.38E+03	<1.0E-06	2.4	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
561	2	Uranium-234	4.06E+01	8.4E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
561	2	Uranium-235	7.09E+00	9.0E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
561	2	Uranium-238	4.00E+02	1.2E-03	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
561	2	Vanadium	3.46E+01	<1.0E-06	39.2	8.81E-02	8.81E-01	2.64E+00	n/a	n/a	n/a	mg/kg
562	1	Uranium	8.73E+01	<1.0E-06	0.2	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
562	1	Uranium-238	2.73E+00	7.9E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
562	2	PCB, Total	1.58E+00	2.5E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
562	2	Uranium-234	5.34E+01	1.1E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
562	2	Uranium-235	8.96E+00	1.1E-04	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
562	2	Uranium-238	5.81E+02	1.7E-03	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
562	3	Chromium	3.82E+01	2.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
562	3	PCB, Total	2.40E-01	3.8E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
562	3	Total PAH	2.20E-01	1.1E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
562	3	Uranium	5.89E+01	<1.0E-06	0.1	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
562	3	Uranium-235	1.63E-01	2.1E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
562	3	Uranium-238	1.09E+01	3.2E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
562	4	Chromium	4.67E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
562	4	Uranium-238	2.24E+00	6.5E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
562	5	Chromium	1.53E+02	9.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
562	5	PCB, Total	9.50E-01	1.5E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
562	5	Total PAH	7.05E-02	3.6E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
562	5	Uranium	2.08E+02	<1.0E-06	0.4	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
562	5	Uranium-234	8.57E+00	1.8E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
562	5	Uranium-235	9.50E-01	1.2E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
562	5	Uranium-238	6.24E+01	1.8E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
563	1	Cadmium	8.96E-01	1.1E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
563	1	Chromium	2.85E+02	1.8E-05	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
563	1	PCB, Total	7.40E-01	1.2E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
563	1	Uranium-238	2.76E+00	8.0E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
563	2	Cesium-137	6.47E-01	3.8E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
563	2	Uranium-238	1.49E+00	4.3E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
564	1	Arsenic	4.30E+01	1.8E-04	0.5	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
564	1	Beryllium	2.12E+00	4.0E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
564	1	Cadmium	1.96E+00	2.4E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
564	1	Cesium-137	6.20E-01	3.6E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
564	1	Chromium	7.49E+01	4.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
564	1	Iron	3.66E+04	<1.0E-06	0.3	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
564	1	PCB, Total	1.93E+00	3.0E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
564	1	Thallium	2.36E+00	<1.0E-06	0.2	1.52E+00	1.52E+01	4.55E+01	n/a	n/a	n/a	mg/kg
564	1	Thorium-230	5.01E+00	1.4E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
564	1	Uranium	5.83E+01	<1.0E-06	0.1	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
564	1	Uranium-234	6.93E+00	1.4E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
564	1	Uranium-235	3.87E-01	4.8E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
564	1	Uranium-238	8.33E+00	2.4E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
564	1	Vanadium	8.06E+01	<1.0E-06	91.5	8.81E-02	8.81E-01	2.64E+00	n/a	n/a	n/a	mg/kg
567	3	Chromium	3.79E+01	2.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
567	4	Chromium	1.63E+01	1.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
567	4	Uranium-238	1.05E+00	3.0E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
12	1	Arsenic	1.34E+01	5.7E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
12	1	Beryllium	6.72E+00	1.3E-03	0.3	2.51E+00	2.51E+01	7.54E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
12	1	Cadmium	1.02E+00	1.3E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
12	1	Chromium	6.33E+01	4.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
12	1	Cobalt	9.16E+00	<1.0E-06	0.2	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg
12	1	Iron	3.01E+04	<1.0E-06	0.2	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
12	1	Mercury	8.80E+00	<1.0E-06	1.7	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
12	1	Nickel	7.74E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
12	1	PCB, Total	3.90E-01	6.1E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
12	1	Silver	1.10E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
12	1	Total PAH	1.70E-01	8.7E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
12	1	Uranium	3.76E+02	<1.0E-06	0.7	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
12	1	Uranium-234	1.50E+01	3.1E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
12	1	Uranium-235	1.53E+00	1.9E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
12	1	Uranium-238	6.68E+01	1.9E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
12	1	Vanadium	2.80E+01	<1.0E-06	31.8	8.81E-02	8.81E-01	2.64E+00	n/a	n/a	n/a	mg/kg
13	1	PCB, Total	7.00E-01	1.1E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
13	4	Uranium-238	1.32E+00	3.8E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
13	5	Cadmium	1.20E+00	1.5E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
13	5	Nickel	1.17E+02	<1.0E-06	0.5	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
13	5	PCB, Total	1.05E+00	1.6E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
13	5	Total PAH	6.65E-02	3.4E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
13	5	Uranium	1.19E+02	<1.0E-06	0.2	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
13	6	Uranium-238	1.32E+00	3.8E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
13	9	Neptunium-237	8.90E-01	1.6E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
13	9	Uranium-235	3.11E-01	4.0E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
13	9	Uranium-238	6.08E+00	1.8E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
13	11	Cobalt-60	1.30E-02	3.7E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
14	1	Americium-241	1.27E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.09E+00	1.09E+01	1.09E+02	pCi/g
14	1	Arsenic	1.10E+01	4.7E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
14	1	Chromium	6.36E+01	4.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	1	Iron	1.89E+04	<1.0E-06	0.1	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
14	1	Neptunium-237	2.14E-01	4.0E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	1	Nickel	1.40E+02	<1.0E-06	0.6	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
14	1	PCB, Total	5.00E-01	7.8E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	1	Silver	1.67E+01	<1.0E-06	0.3	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
14	1	Technetium-99	4.06E+02	4.7E-06	<0.1	n/a	n/a	n/a	8.67E+01	8.67E+02	8.67E+03	pCi/g
14	1	Uranium	7.21E+01	<1.0E-06	0.1	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	1	Uranium-238	1.69E+00	4.9E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	2	Antimony	3.70E+00	<1.0E-06	0.3	1.46E+00	1.46E+01	4.38E+01	n/a	n/a	n/a	mg/kg
14	2	Arsenic	1.45E+01	6.2E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
14	2	Beryllium	7.10E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
14	2	Chromium	6.65E+01	4.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	2	Iron	3.72E+04	<1.0E-06	0.3	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
14	2	Neptunium-237	7.70E-01	1.4E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	2	Nickel	6.78E+02	<1.0E-06	2.7	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
14	2	PCB, Total	3.90E-01	6.1E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	2	Thorium-230	5.98E+00	1.7E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
14	2	Total PAH	3.38E-01	1.7E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
14	2	Uranium	2.93E+02	<1.0E-06	0.5	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
14	2	Uranium-234	3.24E+01	6.7E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
14	2	Uranium-235	2.00E+00	2.5E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
14	2	Uranium-238	5.61E+01	1.6E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	3	Arsenic	1.30E+01	5.5E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
14	3	Chromium	7.01E+01	4.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	3	Iron	3.48E+04	<1.0E-06	0.3	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
14	3	Mercury	7.48E+00	<1.0E-06	1.4	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
14	3	Nickel	5.76E+02	<1.0E-06	2.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
14	3	PCB, Total	8.65E+00	1.4E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	3	Uranium	2.18E+02	<1.0E-06	0.4	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
14	3	Uranium-238	1.50E+00	4.3E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	4	Antimony	4.30E+00	<1.0E-06	0.3	1.46E+00	1.46E+01	4.38E+01	n/a	n/a	n/a	mg/kg
14	4	Arsenic	1.33E+01	5.6E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
14	4	Chromium	7.20E+01	4.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	4	Iron	3.88E+04	<1.0E-06	0.3	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
14	4	Neptunium-237	2.68E+00	5.0E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	4	Nickel	7.31E+02	<1.0E-06	2.9	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
14	4	PCB, Total	6.61E+00	1.0E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	4	Silver	1.17E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
14	4	Thorium-230	8.33E+00	2.3E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
14	4	Total PAH	2.51E-01	1.3E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
14	4	Uranium	3.72E+02	<1.0E-06	0.7	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
14	4	Uranium-234	1.13E+02	2.3E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	4	Uranium-235	8.00E+00	1.0E-04	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
14	4	Uranium-238	1.69E+02	4.9E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	5	Antimony	2.30E+00	<1.0E-06	0.2	1.46E+00	1.46E+01	4.38E+01	n/a	n/a	n/a	mg/kg
14	5	Arsenic	1.31E+01	5.6E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
14	5	Cadmium	3.90E+00	4.8E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
14	5	Chromium	4.70E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	5	Cobalt	1.40E+01	<1.0E-06	0.2	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg
14	5	Iron	3.92E+04	<1.0E-06	0.3	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
14	5	Mercury	1.09E+01	<1.0E-06	2.1	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
14	5	Neptunium-237	1.74E+00	3.2E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	5	Nickel	4.61E+02	<1.0E-06	1.8	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
14	5	PCB, Total	1.00E+00	1.6E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	5	Silver	1.29E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
14	5	Technetium-99	1.01E+02	1.2E-06	<0.1	n/a	n/a	n/a	8.67E+01	8.67E+02	8.67E+03	pCi/g
14	5	Thorium-230	1.39E+01	3.9E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
14	5	Total PAH	1.21E-01	6.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
14	5	Uranium	2.62E+02	<1.0E-06	0.5	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
14	5	Uranium-234	5.22E+01	1.1E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
14	5	Uranium-235	3.33E+00	4.2E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
14	5	Uranium-238	9.42E+01	2.7E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	6	Antimony	2.70E+00	<1.0E-06	0.2	1.46E+00	1.46E+01	4.38E+01	n/a	n/a	n/a	mg/kg
14	6	Cadmium	8.40E-01	1.0E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
14	6	Chromium	4.46E+02	2.9E-05	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	6	Neptunium-237	2.65E+00	4.9E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	6	Nickel	9.63E+02	<1.0E-06	3.8	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
14	6	PCB, Total	5.00E+00	7.8E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	6	Silver	1.19E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
14	6	Uranium	5.79E+02	<1.0E-06	1.0	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
14	6	Uranium-234	3.41E+01	7.1E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
14	6	Uranium-235	2.27E+00	2.9E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
14	6	Uranium-238	5.08E+01	1.5E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	7	Arsenic	1.13E+01	4.8E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
14	7	Cadmium	2.70E+00	3.3E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
14	7	Chromium	6.46E+01	4.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	7	Mercury	7.82E+00	<1.0E-06	1.5	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	7	Neptunium-237	1.49E+00	2.8E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	7	Nickel	1.22E+03	<1.0E-06	4.9	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
14	7	PCB, Total	7.60E+00	1.2E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	7	Total PAH	6.31E-02	3.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
14	7	Uranium	3.33E+02	<1.0E-06	0.6	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
14	7	Uranium-234	1.28E+01	2.7E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
14	7	Uranium-235	9.60E-01	1.2E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
14	7	Uranium-238	2.13E+01	6.2E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	8	Arsenic	1.14E+01	4.8E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
14	8	Chromium	4.60E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	8	Mercury	7.90E+00	<1.0E-06	1.5	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
14	8	Neptunium-237	8.80E-01	1.6E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	8	Nickel	6.73E+02	<1.0E-06	2.7	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
14	8	PCB, Total	5.00E+00	7.8E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	8	Silver	9.63E+00	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
14	8	Total PAH	6.28E-02	3.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
14	8	Uranium	3.35E+02	<1.0E-06	0.6	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
14	8	Uranium-235	2.38E-01	3.0E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
14	8	Uranium-238	5.92E+00	1.7E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	9	Antimony	2.00E+00	<1.0E-06	0.1	1.46E+00	1.46E+01	4.38E+01	n/a	n/a	n/a	mg/kg
14	9	Arsenic	1.40E+01	6.0E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
14	9	Cadmium	9.40E-01	1.2E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
14	9	Cesium-137	4.53E-01	2.7E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
14	9	Chromium	4.64E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	9	Mercury	1.13E+00	<1.0E-06	0.2	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
14	9	Neptunium-237	1.09E+01	2.0E-04	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	9	Nickel	9.43E+02	<1.0E-06	3.8	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
14	9	PCB, Total	6.84E+00	1.1E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	9	Technetium-99	1.96E+02	2.3E-06	<0.1	n/a	n/a	n/a	8.67E+01	8.67E+02	8.67E+03	pCi/g
14	9	Total PAH	4.87E-01	2.5E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
14	9	Uranium	1.46E+03	<1.0E-06	2.6	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
14	9	Uranium-234	8.32E+02	1.7E-04	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
14	9	Uranium-235	5.46E+01	6.9E-04	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
14	9	Uranium-238	1.20E+03	3.5E-03	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	10	Arsenic	1.12E+01	4.8E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	10	Chromium	4.19E+01	2.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	10	Iron	2.75E+04	<1.0E-06	0.2	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
14	10	Mercury	2.51E+01	<1.0E-06	4.8	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
14	10	Neptunium-237	2.64E+00	4.9E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	10	Nickel	6.00E+02	<1.0E-06	2.4	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
14	10	PCB, Total	9.38E+00	1.5E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	10	Total PAH	2.72E-01	1.4E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
14	10	Uranium	2.88E+02	<1.0E-06	0.5	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
14	10	Uranium-234	2.42E+01	5.0E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
14	10	Uranium-235	1.76E+00	2.2E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
14	10	Uranium-238	4.09E+01	1.2E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	1	Arsenic	1.24E+01	5.3E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	1	Chromium	5.61E+01	3.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	1	Iron	2.95E+04	<1.0E-06	0.2	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
15	1	Nickel	1.33E+02	<1.0E-06	0.5	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
15	1	PCB, Total	7.80E-02	1.2E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	1	Silver	1.23E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
15	1	Total PAH	1.71E+00	8.8E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	1	Uranium-238	1.85E+00	5.3E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	2	Arsenic	1.63E+01	6.9E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	2	Chromium	5.90E+01	3.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	2	Iron	3.89E+04	<1.0E-06	0.3	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
15	2	Mercury	9.33E+00	<1.0E-06	1.8	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
15	2	Neptunium-237	1.35E-01	2.5E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
15	2	Nickel	1.97E+02	<1.0E-06	0.8	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
15	2	PCB, Total	3.30E-01	5.2E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	2	Total PAH	2.11E+00	1.1E-04	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	2	Uranium	1.32E+02	<1.0E-06	0.2	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
15	2	Uranium-234	6.51E+00	1.4E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
15	2	Uranium-235	3.80E-01	4.8E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
15	2	Uranium-238	1.21E+01	3.5E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	3	Antimony	2.45E+01	<1.0E-06	1.7	1.46E+00	1.46E+01	4.38E+01	n/a	n/a	n/a	mg/kg
15	3	Arsenic	2.60E+01	1.1E-04	0.3	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	3	Beryllium	7.60E-01	1.4E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
15	3	Cadmium	1.19E+01	1.5E-05	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	3	Chromium	7.53E+01	4.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	3	Cobalt	3.41E+01	<1.0E-06	0.6	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg
15	3	Copper	1.40E+03	<1.0E-06	0.2	7.58E+02	7.58E+03	2.28E+04	n/a	n/a	n/a	mg/kg
15	3	Iron	9.20E+04	<1.0E-06	0.7	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
15	3	Lead	3.79E+02									mg/kg
15	3	Mercury	2.74E+00	<1.0E-06	0.5	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
15	3	Neptunium-237	4.10E+00	7.6E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
15	3	Nickel	7.57E+02	<1.0E-06	3.0	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
15	3	PCB, Total	6.82E+00	1.1E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	3	Technetium-99	3.67E+02	4.2E-06	<0.1	n/a	n/a	n/a	8.67E+01	8.67E+02	8.67E+03	pCi/g
15	3	Thorium-230	7.23E+00	2.0E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
15	3	Total PAH	1.45E+00	7.5E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	3	Uranium	2.16E+02	<1.0E-06	0.4	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
15	3	Uranium-234	6.96E+01	1.4E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
15	3	Uranium-235	4.21E+00	5.3E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
15	3	Uranium-238	9.67E+01	2.8E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	4	Antimony	7.40E+00	<1.0E-06	0.5	1.46E+00	1.46E+01	4.38E+01	n/a	n/a	n/a	mg/kg
15	4	Arsenic	3.47E+01	1.5E-04	0.4	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	4	Cadmium	1.40E+00	1.7E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
15	4	Chromium	1.02E+02	6.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	4	Iron	7.81E+04	<1.0E-06	0.6	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
15	4	Lead	5.12E+02									mg/kg
15	4	Mercury	1.41E+01	<1.0E-06	2.7	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
15	4	Neptunium-237	8.00E-01	1.5E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
15	4	Nickel	1.37E+03	<1.0E-06	5.5	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
15	4	PCB, Total	2.67E+01	4.2E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	4	Silver	1.46E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
15	4	Total PAH	2.44E+00	1.3E-04	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	4	Uranium	1.57E+02	<1.0E-06	0.3	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
15	4	Uranium-234	1.07E+01	2.2E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
15	4	Uranium-235	4.30E-01	5.5E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
15	4	Uranium-238	1.87E+01	5.4E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	5	Antimony	3.10E+00	<1.0E-06	0.2	1.46E+00	1.46E+01	4.38E+01	n/a	n/a	n/a	mg/kg
15	5	Arsenic	1.28E+01	5.4E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	5	Cadmium	1.50E+00	1.9E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	5	Chromium	4.28E+01	2.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	5	Copper	5.63E+03	<1.0E-06	0.7	7.58E+02	7.58E+03	2.28E+04	n/a	n/a	n/a	mg/kg
15	5	Neptunium-237	6.90E-01	1.3E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
15	5	Nickel	5.10E+02	<1.0E-06	2.0	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
15	5	PCB, Total	2.51E+01	3.9E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	5	Silver	1.46E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
15	5	Technetium-99	1.07E+02	1.2E-06	<0.1	n/a	n/a	n/a	8.67E+01	8.67E+02	8.67E+03	pCi/g
15	5	Total PAH	5.11E-01	2.6E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	5	Uranium	2.13E+02	<1.0E-06	0.4	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
15	5	Uranium-234	5.83E+00	1.2E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
15	5	Uranium-235	4.60E-01	5.8E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
15	5	Uranium-238	1.03E+01	3.0E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	6	Antimony	5.10E+00	<1.0E-06	0.3	1.46E+00	1.46E+01	4.38E+01	n/a	n/a	n/a	mg/kg
15	6	Arsenic	1.24E+01	5.3E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	6	Cadmium	1.50E+00	1.9E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
15	6	Chromium	5.80E+01	3.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	6	Cobalt	1.62E+01	<1.0E-06	0.3	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg
15	6	Iron	3.15E+04	<1.0E-06	0.2	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
15	6	Neptunium-237	6.40E-01	1.2E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
15	6	Nickel	3.24E+02	<1.0E-06	1.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
15	6	PCB, Total	6.17E+00	9.7E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	6	Silver	1.09E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
15	6	Total PAH	1.62E+00	8.4E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	6	Uranium	6.70E+01	<1.0E-06	0.1	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
15	6	Uranium-234	8.74E+00	1.8E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
15	6	Uranium-235	5.70E-01	7.2E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
15	6	Uranium-238	1.54E+01	4.5E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	7	Arsenic	1.61E+01	6.8E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	7	Cadmium	1.00E+00	1.2E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
15	7	Chromium	7.87E+01	5.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	7	Iron	3.42E+04	<1.0E-06	0.3	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
15	7	Neptunium-237	2.23E-01	4.1E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
15	7	Nickel	5.59E+02	<1.0E-06	2.2	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
15	7	PCB, Total	2.57E+01	4.0E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	7	Silver	1.29E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	7	Total PAH	1.59E-01	8.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	7	Uranium-234	6.49E+00	1.3E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
15	7	Uranium-235	4.50E-01	5.7E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
15	7	Uranium-238	8.05E+00	2.3E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	8	Antimony	5.40E+00	<1.0E-06	0.4	1.46E+00	1.46E+01	4.38E+01	n/a	n/a	n/a	mg/kg
15	8	Arsenic	1.17E+01	4.9E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	8	Chromium	7.74E+01	5.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	8	Iron	2.83E+04	<1.0E-06	0.2	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
15	8	Mercury	1.00E+01	<1.0E-06	1.9	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
15	8	Neptunium-237	3.65E-01	6.8E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
15	8	Nickel	1.82E+02	<1.0E-06	0.7	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
15	8	PCB, Total	4.90E+00	7.7E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	8	Silver	1.36E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
15	8	Total PAH	3.59E-01	1.8E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	8	Uranium-235	3.04E-01	3.9E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
15	8	Uranium-238	6.64E+00	1.9E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	9	Arsenic	1.10E+01	4.7E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	9	Chromium	9.56E+01	6.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	9	Iron	2.76E+04	<1.0E-06	0.2	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
15	9	Neptunium-237	1.28E-01	2.4E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
15	9	Nickel	1.49E+02	<1.0E-06	0.6	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
15	9	PCB, Total	3.30E-01	5.2E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	9	Silver	1.54E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
15	9	Total PAH	2.38E-01	1.2E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	9	Uranium-235	2.42E-01	3.1E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
15	9	Uranium-238	7.12E+00	2.1E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	10	Chromium	3.55E+01	2.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	10	Mercury	7.84E+00	<1.0E-06	1.5	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
15	10	Nickel	1.46E+02	<1.0E-06	0.6	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
15	10	Silver	1.08E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
15	10	Total PAH	1.28E-01	6.6E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	10	Uranium	6.47E+01	<1.0E-06	0.1	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
16	1	Cesium-137	1.10E+00	6.4E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
16	1	PCB, Total	9.60E-02	1.5E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
16	1	Total PAH	2.72E-02	1.4E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
16	2	Beryllium	8.40E-01	1.6E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
16	2	Chromium	2.04E+01	1.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
16	3	PCB, Total	9.49E-01	1.5E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
16	4	Cesium-137	3.66E+01	2.1E-03	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
16	4	Cobalt-60	8.53E-03	2.4E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
16	4	Neptunium-237	7.12E+00	1.3E-04	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
16	4	PCB, Total	3.20E-01	5.0E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
16	4	Technetium-99	2.96E+02	3.4E-06	<0.1	n/a	n/a	n/a	8.67E+01	8.67E+02	8.67E+03	pCi/g
16	4	Thorium-230	5.29E+00	1.5E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
16	4	Total PAH	2.93E+00	1.5E-04	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
16	4	Uranium-234	1.19E+02	2.5E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
16	4	Uranium-235	8.23E+00	1.0E-04	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
16	4	Uranium-238	2.70E+02	7.8E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
518	1	Carbazole	1.17E+01	1.4E-06	<0.1	n/a	n/a	n/a	8.66E+00	8.66E+01	8.66E+02	mg/kg
518	1	Cobalt	6.80E+00	<1.0E-06	0.1	5.63E+00	5.63E+01	1.69E+02	n/a	n/a	n/a	mg/kg
518	1	PCB, Total	6.30E-01	9.9E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
518	1	Total PAH	4.64E+00	2.4E-04	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
518	1	Uranium	2.17E+02	<1.0E-06	0.4	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
518	1	Uranium-238	1.51E+00	4.4E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
520	1	Cesium-137	9.62E-01	5.6E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
520	1	Chromium	3.17E+01	2.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
520	1	Iron	1.56E+04	<1.0E-06	0.1	1.33E+04	1.33E+05	3.98E+05	n/a	n/a	n/a	mg/kg
520	1	Mercury	1.07E+01	<1.0E-06	2.0	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
520	1	Neptunium-237	6.56E-01	1.2E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
520	1	Nickel	2.60E+02	<1.0E-06	1.0	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
520	1	Silver	1.30E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
520	1	Thorium-230	1.13E+01	3.2E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
520	1	Total PAH	3.18E-02	1.6E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
520	1	Uranium-235	1.26E-01	1.6E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
520	1	Uranium-238	3.93E+00	1.1E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
520	2	Beryllium	5.79E-01	1.1E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
520	2	Chromium	6.67E+01	4.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
520	2	Mercury	1.19E+01	<1.0E-06	2.3	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
520	2	Neptunium-237	7.48E-02	1.4E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
520	2	Nickel	3.11E+02	<1.0E-06	1.2	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
520	2	Total PAH	3.17E-01	1.6E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
520	2	Uranium-238	1.78E+00	5.1E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
520	3	Chromium	3.97E+01	2.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
520	3	Nickel	2.65E+02	<1.0E-06	1.1	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
520	3	Silver	1.27E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
520	3	Total PAH	1.18E-01	6.1E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
520	3	Uranium-238	1.57E+00	4.5E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
520	4	Chromium	3.82E+01	2.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
520	4	Mercury	9.69E+00	<1.0E-06	1.8	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
520	4	Neptunium-237	7.40E-01	1.4E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
520	4	Nickel	2.82E+02	<1.0E-06	1.1	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
520	4	Silver	1.04E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
520	4	Total PAH	5.52E-01	2.8E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
520	4	Uranium-235	2.42E-01	3.1E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
520	4	Uranium-238	6.26E+00	1.8E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
520	5	Chromium	3.68E+01	2.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
520	5	Neptunium-237	1.55E-01	2.9E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
520	5	Nickel	1.47E+02	<1.0E-06	0.6	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
520	5	Total PAH	3.87E-01	2.0E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
520	5	Uranium-238	1.45E+00	4.2E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
74	1	PCB, Total	2.97E+00	4.7E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
74	1	Total PAH	3.16E+00	1.6E-04	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
74	1	Uranium-234	7.55E+00	1.6E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
74	1	Uranium-238	3.85E+01	1.1E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
75	1	Cadmium	1.10E+00	1.4E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
75	1	Chromium	7.17E+01	4.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
75	1	Nickel	8.87E+01	<1.0E-06	0.4	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
75	1	PCB, Total	2.30E-01	3.6E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
75	1	Total PAH	2.21E-01	1.1E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
78	1	Cadmium	2.36E+00	2.9E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
78	1	Chromium	3.75E+01	2.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
78	1	Cobalt-60	5.91E-03	1.7E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
78	1	Naphthalene	1.60E+01	1.4E-05	0.2	7.95E+00	7.95E+01	2.38E+02	1.14E+00	1.14E+01	1.14E+02	mg/kg
78	1	PCB, Total	1.20E+01	1.9E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
78	1	Total PAH	3.91E+01	2.0E-03	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
78	1	Uranium-235	2.64E-01	3.4E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
78	1	Uranium-238	5.29E+00	1.5E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
80	1	Americium-241	6.40E+00	5.9E-06	<0.1	n/a	n/a	n/a	1.09E+00	1.09E+01	1.09E+02	pCi/g
80	1	Beryllium	7.80E-01	1.5E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
80	1	Chromium	1.65E+02	1.1E-05	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
80	1	Neptunium-237	5.05E-01	9.4E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
80	1	PCB, Total	1.46E+01	2.3E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
80	1	Thorium-230	4.40E+00	1.2E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
80	1	Total PAH	1.42E-01	7.3E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
80	1	Uranium	5.72E+03	<1.0E-06	10.1	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
80	1	Uranium-234	2.29E+02	4.8E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
80	1	Uranium-235	3.00E+01	3.8E-04	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
80	1	Uranium-238	1.92E+03	5.6E-03	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
81	1	Arsenic	1.03E+01	4.4E-05	0.1	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
81	1	Beryllium	7.57E-01	1.4E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
81	1	Chromium	8.62E+01	5.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
81	1	Mercury	8.33E+00	<1.0E-06	1.6	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
81	1	Nickel	7.29E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
81	1	PCB, Total	1.60E+02	2.5E-03	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
81	1	Total PAH	5.53E-01	2.8E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
81	1	Uranium	6.50E+03	<1.0E-06	11.4	5.68E+01	5.68E+02	1.70E+03	n/a	n/a	n/a	mg/kg
81	1	Uranium-238	2.29E+00	6.6E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
153	1	PCB, Total	5.09E-01	8.0E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
153	1	Total PAH	8.69E-02	4.5E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
154	1	Arsenic	1.52E+01	6.4E-05	0.2	8.04E+00	8.04E+01	2.41E+02	2.35E-01	2.35E+00	2.35E+01	mg/kg
154	1	Chromium	4.28E+01	2.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
154	1	Nickel	9.89E+01	<1.0E-06	0.4	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
154	1	PCB, Total	3.20E+00	5.0E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
154	1	Total PAH	1.04E+00	5.4E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
154	1	Uranium-238	3.06E+00	8.8E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
154	2	PCB, Total	4.00E-01	6.3E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
155	1	Antimony	3.65E+00	<1.0E-06	0.3	1.46E+00	1.46E+01	4.38E+01	n/a	n/a	n/a	mg/kg
155	1	Chromium	3.47E+01	2.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
155	1	Neptunium-237	1.03E-01	1.9E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
155	1	Nickel	7.65E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Adult Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
155	1	PCB, Total	9.20E+00	1.4E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
155	1	Silver	1.11E+01	<1.0E-06	0.2	6.29E+00	6.29E+01	1.89E+02	n/a	n/a	n/a	mg/kg
156	1	Chromium	4.90E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
156	1	Manganese	2.83E+03	<1.0E-06	0.1	1.90E+03	1.90E+04	5.69E+04	n/a	n/a	n/a	mg/kg
156	1	Mercury	9.87E+00	<1.0E-06	1.9	5.25E-01	5.25E+00	1.58E+01	n/a	n/a	n/a	mg/kg
156	1	Nickel	6.16E+01	<1.0E-06	0.2	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
156	1	PCB, Total	3.00E-01	4.7E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
156	1	Total PAH	8.26E-02	4.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
156	1	Uranium-238	2.19E+00	6.3E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
160	1	Total PAH	5.29E-02	2.7E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
163	1	Chromium	4.94E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
163	1	Total PAH	1.63E-01	8.4E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
219	1	Neptunium-237	3.31E-01	6.1E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
219	1	Nickel	6.71E+01	<1.0E-06	0.3	2.51E+01	2.51E+02	7.53E+02	n/a	n/a	n/a	mg/kg
219	1	Total PAH	7.50E-02	3.9E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
219	1	Uranium-235	1.92E-01	2.4E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
219	1	Uranium-238	4.40E+00	1.3E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
488	1	Cesium-137	5.20E-01	3.0E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
488	1	PCB, Total	1.03E+01	1.6E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
488	1	Total PAH	2.50E-01	1.3E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
488	1	Uranium-235	1.49E-01	1.9E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
488	1	Uranium-238	4.54E+00	1.3E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
1	1	Beryllium	3.89E+00	7.3E-04	0.4	1.04E+00	1.04E+01	3.12E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
1	1	Cadmium	1.10E+00	1.4E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
1	1	Cesium-137	5.91E-01	3.5E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
1	1	Neptunium-237	4.02E-01	7.4E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
1	1	PCB, Total	1.76E-01	2.8E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
1	1	Plutonium-239/240	6.14E+00	2.2E-06	<0.1	n/a	n/a	n/a	2.78E+00	2.78E+01	2.78E+02	pCi/g
1	1	Thorium-230	4.40E+01	1.2E-05	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
1	1	Uranium-235	1.06E-01	1.3E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
1	1	Uranium-238	1.97E+00	5.7E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
1	2	Beryllium	8.23E+00	1.5E-03	0.8	1.04E+00	1.04E+01	3.12E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
1	2	Cadmium	6.46E+00	8.0E-06	0.1	4.90E+00	4.90E+01	1.47E+02	8.09E-01	8.09E+00	8.09E+01	mg/kg
1	2	Chromium	2.01E+02	1.3E-05	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
1	2	Mercury	5.94E+00	<1.0E-06	2.8	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
1	2	Nickel	5.75E+01	<1.0E-06	0.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
1	2	PCB, Total	3.22E+01	5.0E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
1	2	Silver	3.31E+01	<1.0E-06	1.3	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
1	2	Thallium	3.70E-01	<1.0E-06	0.1	3.68E-01	3.68E+00	1.10E+01	n/a	n/a	n/a	mg/kg
1	2	Vanadium	3.49E+01	<1.0E-06	95.5	3.65E-02	3.65E-01	1.09E+00	n/a	n/a	n/a	mg/kg
1	3	PCB, Total	2.17E-01	3.4E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
1	3	Uranium-238	1.73E+00	5.0E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
1	4	Beryllium	7.25E-01	1.4E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
1	4	Chromium	9.30E+01	6.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
1	4	Cobalt-60	2.20E-02	6.3E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
1	4	Nickel	4.69E+01	<1.0E-06	0.5	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
1	4	PCB, Total	1.30E-01	2.0E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
1	4	Thorium-230	5.03E+00	1.4E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
1	5	Beryllium	8.30E+00	1.6E-03	0.8	1.04E+00	1.04E+01	3.12E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
1	5	Cadmium	1.20E+00	1.5E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
1	5	Nickel	4.07E+01	<1.0E-06	0.4	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
1	5	PCB, Total	2.70E-01	4.2E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
1	5	Total PAH	9.83E-02	5.1E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
99	1	Chromium	5.51E+01	3.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
99	1	Cobalt-60	1.19E-02	3.4E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
99	1	Mercury	9.53E+00	<1.0E-06	4.5	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
99	1	Nickel	7.02E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
99	1	Silver	1.03E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
99	1	Uranium-238	9.45E-01	2.7E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
194	1	Antimony	1.50E+00	<1.0E-06	0.3	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
194	1	Chromium	3.87E+01	2.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	1	Mercury	6.71E+00	<1.0E-06	3.1	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
194	1	Nickel	5.84E+01	<1.0E-06	0.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	1	Silver	1.09E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
194	2	Chromium	5.96E+01	3.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	2	Silver	1.31E+01	<1.0E-06	0.5	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
194	2	Uranium	2.28E+01	<1.0E-06	0.2	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
194	2	Uranium-238	1.42E+00	4.1E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
194	3	Antimony	6.90E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
194	3	Arsenic	1.46E+01	6.2E-05	0.9	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	3	Chromium	3.90E+01	2.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	3	Nickel	6.40E+01	<1.0E-06	0.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	3	Total PAH	3.93E-02	2.0E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	3	Uranium-238	1.28E+00	3.7E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
194	4	Chromium	4.84E+01	3.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	4	Mercury	8.92E+00	<1.0E-06	4.2	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
194	4	Nickel	6.91E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	4	Silver	1.18E+01	<1.0E-06	0.5	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
194	4	Total PAH	7.30E-02	3.8E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	4	Uranium-238	1.73E+00	5.0E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
194	5	Chromium	4.58E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	5	Mercury	8.69E+00	<1.0E-06	4.1	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
194	5	Nickel	7.54E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	5	Silver	1.25E+01	<1.0E-06	0.5	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
194	5	Total PAH	2.37E-02	1.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	5	Uranium-238	1.38E+00	4.0E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
194	6	Chromium	3.70E+01	2.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	6	Manganese	1.08E+03	<1.0E-06	0.3	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
194	6	Nickel	8.06E+01	<1.0E-06	0.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	6	Silver	9.89E+00	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
194	6	Uranium-238	1.32E+00	3.8E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	7	Chromium	5.32E+01	3.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	7	Nickel	7.71E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	7	Silver	1.25E+01	<1.0E-06	0.5	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
194	8	Chromium	5.36E+01	3.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	8	Manganese	8.00E+02	<1.0E-06	0.2	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
194	8	Total PAH	4.85E-01	2.5E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	8	Uranium-238	1.39E+00	4.0E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
194	9	Arsenic	1.14E+01	4.8E-05	0.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	9	Chromium	5.17E+01	3.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	10	Arsenic	1.22E+01	5.2E-05	0.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	10	Cesium-137	5.81E-01	3.4E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
194	10	Chromium	3.63E+01	2.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	10	Nickel	7.60E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	10	Total PAH	2.57E-01	1.3E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	10	Uranium-238	1.49E+00	4.3E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
194	11	Chromium	3.27E+01	2.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	11	Mercury	8.09E+00	<1.0E-06	3.8	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
194	11	Nickel	1.01E+02	<1.0E-06	1.0	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	11	PCB, Total	8.40E-02	1.3E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
194	11	Silver	1.33E+01	<1.0E-06	0.5	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
194	11	Total PAH	7.95E-02	4.1E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	12	Chromium	6.34E+01	4.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	12	Nickel	7.86E+01	<1.0E-06	0.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	12	Silver	1.20E+01	<1.0E-06	0.5	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
194	12	Total PAH	8.91E-01	4.6E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	13	Chromium	4.77E+01	3.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	13	Nickel	6.03E+01	<1.0E-06	0.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	13	Total PAH	9.13E-02	4.7E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	14	Chromium	5.21E+01	3.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	14	Mercury	8.14E+00	<1.0E-06	3.8	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
194	15	Chromium	5.33E+01	3.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	15	Silver	1.03E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
194	16	Antimony	7.40E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
194	16	Arsenic	1.15E+01	4.9E-05	0.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	16	Beryllium	8.70E-01	1.6E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	16	Chromium	5.32E+01	3.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	16	Nickel	7.20E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	16	Thallium	6.30E-01	<1.0E-06	0.2	3.68E-01	3.68E+00	1.10E+01	n/a	n/a	n/a	mg/kg
194	16	Vanadium	4.11E+01	<1.0E-06	112.6	3.65E-02	3.65E-01	1.09E+00	n/a	n/a	n/a	mg/kg
194	17	Arsenic	1.16E+01	4.9E-05	0.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	17	Cadmium	1.10E+00	1.4E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
194	17	Chromium	4.65E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	17	Total PAH	1.59E-01	8.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	18	Arsenic	1.06E+01	4.5E-05	0.6	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	18	Beryllium	7.40E-01	1.4E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
194	18	Chromium	6.85E+01	4.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	18	Nickel	5.78E+01	<1.0E-06	0.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	19	Arsenic	1.07E+01	4.5E-05	0.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	19	Chromium	4.84E+01	3.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	19	Nickel	5.84E+01	<1.0E-06	0.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	20	Arsenic	1.18E+01	5.0E-05	0.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	20	Barium	3.26E+02	<1.0E-06	0.2	1.40E+02	1.40E+03	4.21E+03	n/a	n/a	n/a	mg/kg
194	20	Beryllium	1.10E+00	2.1E-04	0.1	1.04E+00	1.04E+01	3.12E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
194	20	Chromium	5.24E+01	3.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	20	Cobalt	2.11E+01	<1.0E-06	1.5	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg
194	20	Manganese	2.29E+03	<1.0E-06	0.5	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
194	20	Mercury	7.28E+00	<1.0E-06	3.4	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
194	20	Nickel	6.57E+01	<1.0E-06	0.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	20	Silver	1.22E+01	<1.0E-06	0.5	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
194	20	Total PAH	3.10E-02	1.6E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	20	Vanadium	3.81E+01	<1.0E-06	104.4	3.65E-02	3.65E-01	1.09E+00	n/a	n/a	n/a	mg/kg
194	21	Antimony	9.30E-01	<1.0E-06	0.2	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
194	21	Chromium	5.51E+01	3.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	21	Mercury	6.62E+00	<1.0E-06	3.1	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
194	21	Nickel	7.01E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	21	Thallium	6.40E-01	<1.0E-06	0.2	3.68E-01	3.68E+00	1.10E+01	n/a	n/a	n/a	mg/kg
194	22	Chromium	4.90E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	22	Manganese	8.19E+02	<1.0E-06	0.2	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
194	22	PCB, Total	1.09E+01	1.7E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
194	23	Arsenic	1.16E+01	4.9E-05	0.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	23	Chromium	6.60E+01	4.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	23	Iron	1.83E+04	<1.0E-06	0.6	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
194	23	Nickel	8.77E+01	<1.0E-06	0.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	23	Silver	1.15E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
194	24	Chromium	5.02E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	24	Nickel	7.08E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	24	Total PAH	2.28E-02	1.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	25	Barium	3.00E+02	<1.0E-06	0.2	1.40E+02	1.40E+03	4.21E+03	n/a	n/a	n/a	mg/kg
194	25	Chromium	6.13E+01	3.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	25	Manganese	9.96E+02	<1.0E-06	0.2	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
194	25	Nickel	6.33E+01	<1.0E-06	0.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	25	Total PAH	2.06E-02	1.1E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
194	26	Beryllium	7.00E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
194	26	Chromium	4.18E+01	2.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	26	Silver	1.03E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
194	26	Thallium	3.90E-01	<1.0E-06	0.1	3.68E-01	3.68E+00	1.10E+01	n/a	n/a	n/a	mg/kg
194	27	Chromium	5.22E+01	3.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	27	Nickel	6.55E+01	<1.0E-06	0.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	27	Silver	1.01E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
194	28	Arsenic	1.20E+01	5.1E-05	0.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
194	28	Beryllium	7.10E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
194	28	Chromium	6.07E+01	3.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	28	Manganese	1.14E+03	<1.0E-06	0.3	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
194	28	Nickel	6.95E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	28	Silver	1.08E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
194	28	Vanadium	4.06E+01	<1.0E-06	111.2	3.65E-02	3.65E-01	1.09E+00	n/a	n/a	n/a	mg/kg
194	29	Antimony	7.10E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
194	29	Chromium	5.06E+01	3.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	29	Nickel	6.51E+01	<1.0E-06	0.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	29	Silver	9.77E+00	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
194	30	Chromium	5.66E+01	3.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
194	30	Mercury	8.80E+00	<1.0E-06	4.1	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
194	30	Nickel	6.99E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
194	30	Silver	9.76E+00	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
194	31	Cesium-137	5.70E-01	3.3E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	31	Uranium-238	1.72E+00	5.0E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
196	1	Antimony	5.90E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
196	1	Chromium	1.96E+01	1.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
196	1	Neptunium-237	3.11E-01	5.8E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
196	1	Nickel	5.56E+02	<1.0E-06	5.4	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
196	1	Uranium	2.33E+01	<1.0E-06	0.2	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
196	1	Uranium-238	1.54E+00	4.5E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
196	2	Barium	2.02E+02	<1.0E-06	0.1	1.40E+02	1.40E+03	4.21E+03	n/a	n/a	n/a	mg/kg
196	2	Cadmium	2.53E+00	3.1E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
196	2	Chromium	2.07E+01	1.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
196	2	Nickel	7.36E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
196	2	PCB, Total	1.51E+00	2.4E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
196	2	Total PAH	6.80E-01	3.5E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
196	2	Uranium-238	2.21E+00	6.4E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
211	1	Chromium	4.48E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
211	1	Neptunium-237	1.46E-01	2.7E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
211	1	PCB, Total	3.60E-01	5.6E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
211	1	Total PAH	1.04E-01	5.3E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
211	1	Uranium	2.19E+01	<1.0E-06	0.2	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
211	1	Uranium-235	2.12E-01	2.7E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
211	1	Uranium-238	5.84E+00	1.7E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
483	1	Nickel	1.17E+02	<1.0E-06	1.1	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
483	1	Silver	1.12E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
483	1	Total PAH	2.39E-02	1.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
489	1	Chromium	4.16E+01	2.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
489	1	Nickel	7.88E+01	<1.0E-06	0.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
489	1	Total PAH	8.22E-02	4.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
489	1	Uranium-238	1.47E+00	4.2E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
531	1	Antimony	1.00E+00	<1.0E-06	0.2	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
531	1	Arsenic	4.68E+01	2.0E-04	2.8	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
531	1	Cadmium	3.10E+00	3.8E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
531	1	Chromium	5.05E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
531	1	Iron	5.68E+04	<1.0E-06	1.8	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
531	1	Lead	5.31E+02									mg/kg
531	1	Nickel	1.62E+02	<1.0E-06	1.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
531	1	Total PAH	5.34E-02	2.7E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
531	1	Uranium	2.41E+01	<1.0E-06	0.2	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
531	1	Uranium-235	1.38E-01	1.8E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
531	1	Uranium-238	3.48E+00	1.0E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
531	1	Zinc	2.45E+03	<1.0E-06	0.2	1.38E+03	1.38E+04	4.14E+04	n/a	n/a	n/a	mg/kg
47	1	Aluminum	1.50E+04	<1.0E-06	0.3	4.41E+03	4.41E+04	1.32E+05	n/a	n/a	n/a	mg/kg
47	1	Antimony	9.00E-01	<1.0E-06	0.2	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
47	1	Arsenic	4.52E+01	1.9E-04	2.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
47	1	Beryllium	7.00E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
47	1	Cadmium	4.25E+00	5.3E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
47	1	Chromium	5.39E+01	3.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
47	1	Cobalt	1.43E+01	<1.0E-06	1.0	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg
47	1	Iron	2.95E+04	<1.0E-06	0.9	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
47	1	Naphthalene	1.90E+00	1.7E-06	0.1	1.76E+00	1.76E+01	5.29E+01	1.14E+00	1.14E+01	1.14E+02	mg/kg
47	1	Neptunium-237	1.15E-01	2.1E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
47	1	Nickel	8.25E+01	<1.0E-06	0.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
47	1	PCB, Total	9.60E-01	1.5E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
47	1	Plutonium-239/240	4.11E+00	1.5E-06	<0.1	n/a	n/a	n/a	2.78E+00	2.78E+01	2.78E+02	pCi/g
47	1	Pyrene	1.11E+02	<1.0E-06	0.1	8.12E+01	8.12E+02	2.43E+03	n/a	n/a	n/a	mg/kg
47	1	Thorium-230	4.11E+01	1.1E-05	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
47	1	Total PAH	5.41E+01	2.8E-03	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
47	1	Uranium	3.23E+01	<1.0E-06	0.2	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
47	1	Uranium-234	6.85E+00	1.4E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
47	1	Uranium-235	5.00E-01	6.4E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
47	1	Uranium-238	7.93E+00	2.3E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
200	1	Antimony	5.60E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
200	1	Cesium-137	5.74E-01	3.4E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
200	1	Chromium	5.75E+01	3.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
200	1	Mercury	6.71E+00	<1.0E-06	3.1	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
200	1	Nickel	1.28E+02	<1.0E-06	1.2	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
200	1	PCB, Total	2.60E+00	4.1E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
200	1	Total PAH	2.84E-02	1.5E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
200	1	Uranium	2.73E+01	<1.0E-06	0.2	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
200	1	Uranium-235	1.43E-01	1.8E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
200	1	Uranium-238	3.58E+00	1.0E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
212	1	Arsenic	1.44E+01	6.1E-05	0.9	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
212	1	Beryllium	8.10E-01	1.5E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
212	1	Cesium-137	6.01E-01	3.5E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
212	1	Chromium	3.58E+01	2.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
212	1	Cobalt-60	8.76E-03	2.5E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
212	1	Iron	4.14E+04	<1.0E-06	1.3	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
212	1	Neptunium-237	4.00E+00	7.4E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
212	1	Nickel	8.69E+01	<1.0E-06	0.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
212	1	PCB, Total	1.80E-01	2.8E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
212	1	Plutonium-239/240	6.71E+00	2.4E-06	<0.1	n/a	n/a	n/a	2.78E+00	2.78E+01	2.78E+02	pCi/g
212	1	Thorium-230	2.60E+02	7.3E-05	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
212	1	Uranium	2.30E+01	<1.0E-06	0.2	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
212	1	Uranium-235	2.09E-01	2.7E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
212	1	Uranium-238	3.17E+00	9.2E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
213	1	Antimony	8.50E-01	<1.0E-06	0.2	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
213	1	Chromium	4.78E+01	3.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
213	1	Nickel	6.67E+01	<1.0E-06	0.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
213	1	PCB, Total	7.30E-02	1.1E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
213	1	Silver	1.32E+01	<1.0E-06	0.5	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
213	1	Total PAH	1.72E-01	8.8E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
213	1	Uranium-238	2.33E+00	6.7E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
213	2	Chromium	4.48E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
213	2	Nickel	9.10E+01	<1.0E-06	0.9	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
213	2	Silver	1.13E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
214	1	Antimony	5.70E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
215	1	Antimony	6.80E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
215	1	Chromium	5.73E+01	3.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
215	1	Iron	3.87E+04	<1.0E-06	1.2	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
215	1	Nickel	7.32E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
215	1	Total PAH	8.09E-02	4.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
216	1	Chromium	2.38E+01	1.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
216	1	Total PAH	1.49E-01	7.7E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
216	1	Uranium-238	1.33E+00	3.8E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
217	1	Chromium	8.58E+01	5.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
217	1	Cobalt	1.96E+01	<1.0E-06	1.4	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
217	1	Manganese	7.70E+02	<1.0E-06	0.2	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
217	1	Nickel	8.54E+01	<1.0E-06	0.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
217	1	Silver	1.35E+01	<1.0E-06	0.5	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
217	1	Uranium-238	1.15E+00	3.3E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
217	2	Antimony	1.70E+00	<1.0E-06	0.3	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
217	2	Arsenic	1.12E+01	4.7E-05	0.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
217	2	Chromium	1.02E+02	6.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
217	2	Cobalt	1.74E+01	<1.0E-06	1.3	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg
217	2	Iron	3.09E+04	<1.0E-06	1.0	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
217	2	Manganese	8.44E+02	<1.0E-06	0.2	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
217	2	Mercury	8.59E+00	<1.0E-06	4.0	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
217	2	Nickel	9.74E+01	<1.0E-06	0.9	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
217	2	Silver	1.61E+01	<1.0E-06	0.6	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
217	2	Total PAH	5.05E-01	2.6E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
221	1	Barium	2.21E+02	<1.0E-06	0.2	1.40E+02	1.40E+03	4.21E+03	n/a	n/a	n/a	mg/kg
221	1	Chromium	7.01E+01	4.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
221	1	Iron	1.90E+04	<1.0E-06	0.6	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
221	1	Nickel	7.93E+01	<1.0E-06	0.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
221	1	PCB, Total	5.00E-01	7.8E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
221	1	Total PAH	1.02E+00	5.3E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
221	1	Uranium	1.64E+01	<1.0E-06	0.1	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
221	1	Uranium-238	1.93E+00	5.6E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
222	1	Chromium	4.73E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
222	1	Nickel	9.19E+01	<1.0E-06	0.9	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
222	1	PCB, Total	1.40E+00	2.2E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
222	1	Total PAH	1.77E-01	9.1E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
222	1	Uranium	2.80E+01	<1.0E-06	0.2	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
222	1	Uranium-234	1.04E+01	2.2E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
222	1	Uranium-235	7.10E-01	9.0E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
222	1	Uranium-238	1.96E+01	5.7E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
224	1	Chromium	4.49E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
224	1	PCB, Total	4.75E+02	7.4E-03	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
224	1	Total PAH	4.53E+01	2.3E-03	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
224	1	Uranium	4.15E+01	<1.0E-06	0.3	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
224	1	Uranium-235	2.50E-01	3.2E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
224	1	Uranium-238	2.64E+01	7.6E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
225	1	Chromium	2.55E+01	1.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
225	1	Total PAH	7.79E-02	4.0E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
225	1	Uranium-238	2.04E+00	5.9E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
226	1	Americium-241	1.62E+00	1.5E-06	<0.1	n/a	n/a	n/a	1.09E+00	1.09E+01	1.09E+02	pCi/g
226	1	Antimony	6.60E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
226	1	Cesium-137	2.65E+00	1.6E-04	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
226	1	Chromium	4.25E+01	2.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
226	1	Manganese	6.30E+02	<1.0E-06	0.2	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
226	1	Mercury	9.74E+00	<1.0E-06	4.6	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
226	1	Neptunium-237	1.60E+02	3.0E-03	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
226	1	Nickel	2.10E+02	<1.0E-06	2.0	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
226	1	PCB, Total	1.49E+00	2.3E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
226	1	Plutonium-239/240	6.52E+00	2.3E-06	<0.1	n/a	n/a	n/a	2.78E+00	2.78E+01	2.78E+02	pCi/g
226	1	Thorium-230	4.77E+01	1.3E-05	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
226	1	Total PAH	9.19E-02	4.7E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
226	1	Uranium	4.01E+02	<1.0E-06	2.9	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
226	1	Uranium-234	2.29E+01	4.8E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
226	1	Uranium-235	1.10E+00	1.4E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
226	1	Uranium-238	2.40E+01	6.9E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
227	1	Beryllium	5.52E-01	1.0E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
227	1	Cesium-137	1.90E-01	1.1E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
227	1	Chromium	4.71E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
227	1	Cobalt-60	1.53E-02	4.4E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
227	1	Neptunium-237	9.05E-01	1.7E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
227	1	Nickel	2.03E+02	<1.0E-06	2.0	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
227	1	PCB, Total	4.14E+00	6.5E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
227	1	Total PAH	3.38E-01	1.7E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
227	1	Uranium	1.02E+02	<1.0E-06	0.7	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
227	1	Uranium-234	1.54E+01	3.2E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
227	1	Uranium-235	1.49E+00	1.9E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
227	1	Uranium-238	4.63E+01	1.3E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
227	2	Beryllium	5.32E-01	1.0E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
227	2	Chromium	5.63E+01	3.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
227	2	Cobalt	8.99E+00	<1.0E-06	0.7	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
227	2	Cobalt-60	1.37E-02	3.9E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
227	2	Mercury	8.41E+00	<1.0E-06	3.9	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
227	2	Nickel	1.25E+02	<1.0E-06	1.2	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
227	2	PCB, Total	5.82E+00	9.1E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
227	2	Total PAH	1.16E-01	6.0E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
227	2	Uranium	1.51E+01	<1.0E-06	0.1	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
227	2	Uranium-238	1.57E+00	4.5E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
228	1	Antimony	6.30E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
228	1	Cadmium	3.90E+00	4.8E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
228	1	Chromium	1.89E+02	1.2E-05	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
228	1	Mercury	9.37E+00	<1.0E-06	4.4	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
228	1	Neptunium-237	8.00E-01	1.5E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
228	1	Nickel	7.92E+01	<1.0E-06	0.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
228	1	Silver	1.16E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
228	1	Total PAH	6.69E-02	3.4E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
228	1	Uranium	1.51E+01	<1.0E-06	0.1	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
228	1	Uranium-235	1.78E-01	2.3E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
228	1	Uranium-238	3.77E+00	1.1E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
229	1	Nickel	9.14E+01	<1.0E-06	0.9	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
229	1	Total PAH	1.57E-01	8.1E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
229	1	Uranium	1.56E+02	<1.0E-06	1.1	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
229	1	Uranium-238	2.86E+00	8.3E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
229	2	Arsenic	2.12E+01	9.0E-05	1.3	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
229	2	Beryllium	7.90E-01	1.5E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
229	2	Chromium	2.91E+01	1.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
229	2	Neptunium-237	2.87E-01	5.3E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
229	2	Nickel	9.93E+01	<1.0E-06	1.0	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
229	2	Total PAH	1.69E+00	8.7E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
229	2	Uranium	7.45E+01	<1.0E-06	0.5	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
229	2	Uranium-234	1.22E+01	2.5E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
229	2	Uranium-235	8.40E-01	1.1E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
229	2	Uranium-238	2.49E+01	7.2E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
26	1	Arsenic	1.29E+01	5.5E-05	0.8	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
26	1	Beryllium	6.69E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
26	1	Cadmium	1.99E+00	2.5E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
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RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
26	1	Cesium-137	3.16E+00	1.9E-04	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
26	1	Chromium	1.90E+01	1.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
26	1	Neptunium-237	2.61E-01	4.8E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
26	1	Nickel	1.76E+01	<1.0E-06	0.2	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
26	1	PCB, Total	9.33E-01	1.5E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
26	1	Plutonium-239/240	4.04E+00	1.5E-06	<0.1	n/a	n/a	n/a	2.78E+00	2.78E+01	2.78E+02	pCi/g
26	1	Thorium-230	3.82E+00	1.1E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
26	1	Total PAH	5.00E-02	2.6E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
26	1	Uranium	1.29E+02	<1.0E-06	0.9	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
26	1	Uranium-235	6.41E-01	8.1E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
26	1	Uranium-238	3.47E+01	1.0E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
26	2	Aluminum	2.17E+04	<1.0E-06	0.5	4.41E+03	4.41E+04	1.32E+05	n/a	n/a	n/a	mg/kg
26	2	Arsenic	4.72E+01	2.0E-04	2.9	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
26	2	Barium	1.49E+02	<1.0E-06	0.1	1.40E+02	1.40E+03	4.21E+03	n/a	n/a	n/a	mg/kg
26	2	Beryllium	9.69E+00	1.8E-03	0.9	1.04E+00	1.04E+01	3.12E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
26	2	Cadmium	2.38E+00	2.9E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
26	2	Cesium-137	5.92E+00	3.5E-04	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
26	2	Chromium	3.90E+01	2.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
26	2	Cobalt	5.20E+01	<1.0E-06	3.8	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg
26	2	Iron	5.32E+04	<1.0E-06	1.7	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
26	2	Neptunium-237	7.89E-01	1.5E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
26	2	Nickel	1.13E+02	<1.0E-06	1.1	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
26	2	PCB, Total	2.23E+00	3.5E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
26	2	Thallium	1.39E+01	<1.0E-06	3.8	3.68E-01	3.68E+00	1.10E+01	n/a	n/a	n/a	mg/kg
26	2	Thorium-230	1.51E+01	4.2E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
26	2	Uranium	6.46E+02	<1.0E-06	4.7	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
26	2	Uranium-234	1.91E+01	4.0E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
26	2	Uranium-235	1.71E+00	2.2E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
26	2	Uranium-238	5.14E+01	1.5E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
26	2	Vanadium	3.13E+01	<1.0E-06	85.6	3.65E-02	3.65E-01	1.09E+00	n/a	n/a	n/a	mg/kg
26	3	Aluminum	9.55E+03	<1.0E-06	0.2	4.41E+03	4.41E+04	1.32E+05	n/a	n/a	n/a	mg/kg
26	3	Antimony	1.40E+00	<1.0E-06	0.3	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
26	3	Arsenic	5.09E+01	2.2E-04	3.1	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
26	3	Barium	4.48E+02	<1.0E-06	0.3	1.40E+02	1.40E+03	4.21E+03	n/a	n/a	n/a	mg/kg
26	3	Beryllium	2.54E+00	4.8E-04	0.2	1.04E+00	1.04E+01	3.12E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
26	3	Cadmium	2.34E+00	2.9E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
26	3	Cesium-137	7.48E-01	4.4E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
26	3	Chromium	3.25E+01	2.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
26	3	Cobalt	1.21E+01	<1.0E-06	0.9	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg
26	3	Mercury	3.87E-01	<1.0E-06	0.2	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
26	3	Naphthalene	1.32E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.14E+00	1.14E+01	1.14E+02	mg/kg
26	3	Neptunium-237	7.53E-01	1.4E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
26	3	Nickel	2.97E+01	<1.0E-06	0.3	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
26	3	PCB, Total	2.52E+00	3.9E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
26	3	Silver	2.59E+01	<1.0E-06	1.0	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
26	3	Thallium	6.00E-01	<1.0E-06	0.2	3.68E-01	3.68E+00	1.10E+01	n/a	n/a	n/a	mg/kg
26	3	Thorium-230	7.10E+00	2.0E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
26	3	Total PAH	1.19E+00	6.1E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
26	3	Uranium	9.88E+01	<1.0E-06	0.7	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
26	3	Uranium-234	4.63E+01	9.6E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
26	3	Uranium-235	1.69E+00	2.1E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
26	3	Uranium-238	5.19E+01	1.5E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
26	3	Vanadium	3.77E+01	<1.0E-06	103.2	3.65E-02	3.65E-01	1.09E+00	n/a	n/a	n/a	mg/kg
26	4	Aluminum	1.07E+04	<1.0E-06	0.2	4.41E+03	4.41E+04	1.32E+05	n/a	n/a	n/a	mg/kg
26	4	Americium-241	1.27E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.09E+00	1.09E+01	1.09E+02	pCi/g
26	4	Antimony	6.00E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
26	4	Beryllium	6.91E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
26	4	Cadmium	1.99E+00	2.5E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
26	4	Cesium-137	6.38E-01	3.7E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
26	4	Chromium	8.57E+01	5.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
26	4	Lead	1.19E+02									mg/kg
26	4	Mercury	3.07E+00	<1.0E-06	1.4	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
26	4	Neptunium-237	1.36E+01	2.5E-04	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
26	4	Nickel	7.54E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
26	4	PCB, Total	5.54E-01	8.7E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
26	4	Plutonium-239/240	5.00E+00	1.8E-06	<0.1	n/a	n/a	n/a	2.78E+00	2.78E+01	2.78E+02	pCi/g
26	4	Technetium-99	5.97E+02	6.9E-06	<0.1	n/a	n/a	n/a	8.67E+01	8.67E+02	8.67E+03	pCi/g
26	4	Thorium-230	3.26E+01	9.1E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
26	4	Total PAH	2.83E-02	1.5E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
26	4	Uranium	9.75E+02	<1.0E-06	7.1	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
26	4	Uranium-234	1.54E+02	3.2E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
26	4	Uranium-235	1.08E+01	1.4E-04	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
26	4	Uranium-238	3.66E+02	1.1E-03	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
76	1	Barium	2.69E+02	<1.0E-06	0.2	1.40E+02	1.40E+03	4.21E+03	n/a	n/a	n/a	mg/kg
76	1	PCB, Total	2.60E-01	4.1E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
76	1	Total PAH	1.76E+00	9.0E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
76	1	Uranium-238	1.45E+00	4.2E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
165	1	Antimony	2.20E+00	<1.0E-06	0.4	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
165	1	Arsenic	6.35E+01	2.7E-04	3.9	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
165	1	Barium	5.84E+02	<1.0E-06	0.4	1.40E+02	1.40E+03	4.21E+03	n/a	n/a	n/a	mg/kg
165	1	Beryllium	6.82E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
165	1	Cesium-137	3.47E+00	2.0E-04	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
165	1	Chromium	3.74E+01	2.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
165	1	Mercury	3.78E-01	<1.0E-06	0.2	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
165	1	Naphthalene	1.61E+00	1.4E-06	<0.1	n/a	n/a	n/a	1.14E+00	1.14E+01	1.14E+02	mg/kg
165	1	Neptunium-237	4.26E-01	7.9E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
165	1	Nickel	3.47E+01	<1.0E-06	0.3	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
165	1	PCB, Total	8.27E+00	1.3E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
165	1	Plutonium-239/240	2.81E+00	1.0E-06	<0.1	n/a	n/a	n/a	2.78E+00	2.78E+01	2.78E+02	pCi/g
165	1	Silver	3.09E+01	<1.0E-06	1.2	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
165	1	Thorium-230	6.02E+00	1.7E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
165	1	Total PAH	1.87E+00	9.6E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
165	1	Uranium	1.08E+02	<1.0E-06	0.8	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
165	1	Uranium-234	5.76E+01	1.2E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
165	1	Uranium-235	2.05E+00	2.6E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
165	1	Uranium-238	6.41E+01	1.9E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
170	1	Neptunium-237	1.15E-01	2.1E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
170	1	Uranium-238	1.53E+00	4.4E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
158	1	Arsenic	1.01E+01	4.3E-05	0.6	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
158	1	Barium	2.19E+02	<1.0E-06	0.2	1.40E+02	1.40E+03	4.21E+03	n/a	n/a	n/a	mg/kg
158	1	Chromium	6.07E+01	3.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
158	1	Cobalt	1.62E+01	<1.0E-06	1.2	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg
158	1	Manganese	9.91E+02	<1.0E-06	0.2	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
158	1	Mercury	1.05E+01	<1.0E-06	4.9	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
158	1	Nickel	7.28E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
158	1	Total PAH	3.69E-01	1.9E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
158	1	Uranium	2.03E+01	<1.0E-06	0.1	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
158	1	Uranium-235	1.63E-01	2.1E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
158	1	Uranium-238	3.79E+00	1.1E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
169	1	Aluminum	1.42E+04	<1.0E-06	0.3	4.41E+03	4.41E+04	1.32E+05	n/a	n/a	n/a	mg/kg
169	1	Antimony	1.30E+00	<1.0E-06	0.2	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
169	1	Arsenic	2.03E+01	8.6E-05	1.2	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
169	1	Beryllium	8.00E-01	1.5E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
169	1	Chromium	2.15E+02	1.4E-05	0.1	2.14E+02	2.14E+03	6.42E+03	1.55E+01	1.55E+02	1.55E+03	mg/kg
169	1	Copper	3.74E+02	<1.0E-06	0.2	1.84E+02	1.84E+03	5.52E+03	n/a	n/a	n/a	mg/kg
169	1	Iron	4.16E+04	<1.0E-06	1.3	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
169	1	Mercury	7.87E+00	<1.0E-06	3.7	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
169	1	Nickel	5.49E+02	<1.0E-06	5.3	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
169	1	PCB, Total	1.00E+01	1.6E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
169	1	Thallium	4.60E-01	<1.0E-06	0.1	3.68E-01	3.68E+00	1.10E+01	n/a	n/a	n/a	mg/kg
169	1	Total PAH	4.59E+00	2.4E-04	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
169	1	Uranium	5.03E+01	<1.0E-06	0.4	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
169	1	Uranium-234	6.55E+00	1.4E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
169	1	Uranium-235	4.60E-01	5.8E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
169	1	Uranium-238	8.12E+00	2.3E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
176	1	Arsenic	4.86E+01	2.1E-04	3.0	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
176	1	Chromium	4.27E+01	2.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
176	1	Lead	4.45E+02									mg/kg
176	1	Nickel	1.07E+02	<1.0E-06	1.0	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
176	1	Uranium	2.21E+01	<1.0E-06	0.2	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
19	1	Beryllium	1.10E+00	2.1E-04	0.1	1.04E+00	1.04E+01	3.12E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
19	1	Cadmium	1.20E+00	1.5E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
19	1	Thallium	9.80E-01	<1.0E-06	0.3	3.68E-01	3.68E+00	1.10E+01	n/a	n/a	n/a	mg/kg
19	1	Total PAH	5.23E+00	2.7E-04	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
138	1	Antimony	5.39E+00	<1.0E-06	1.0	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
138	1	Arsenic	1.06E+01	4.5E-05	0.6	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
138	1	Cadmium	5.42E+00	6.7E-06	0.1	4.90E+00	4.90E+01	1.47E+02	8.09E-01	8.09E+00	8.09E+01	mg/kg
138	1	Chromium	5.39E+01	3.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
138	1	Mercury	1.30E+01	<1.0E-06	6.1	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
138	1	Nickel	7.04E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
138	1	PCB, Total	5.00E-01	7.8E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
138	1	Silver	1.01E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
138	1	Total PAH	9.74E-02	5.0E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
138	2	Nickel	7.99E+01	<1.0E-06	0.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
138	2	PCB, Total	9.20E-02	1.4E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
138	2	Silver	1.04E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
138	2	Total PAH	3.84E-02	2.0E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
180	1	Antimony	5.80E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
180	1	Arsenic	7.48E+01	3.2E-04	4.6	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
180	1	Chromium	5.54E+01	3.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
180	1	Lead	1.99E+03									mg/kg
180	1	Mercury	8.28E+00	<1.0E-06	3.9	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
180	1	Nickel	8.77E+01	<1.0E-06	0.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
180	2	Arsenic	1.27E+01	5.4E-05	0.8	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
180	2	Chromium	4.46E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
180	2	Nickel	8.42E+01	<1.0E-06	0.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
180	2	Total PAH	9.19E-02	4.7E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
180	3	Arsenic	1.34E+01	5.7E-05	0.8	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
180	3	Chromium	4.69E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
180	3	Nickel	6.77E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
180	3	Silver	1.14E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
180	4	Arsenic	1.15E+01	4.9E-05	0.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
180	4	Barium	2.13E+02	<1.0E-06	0.2	1.40E+02	1.40E+03	4.21E+03	n/a	n/a	n/a	mg/kg
180	4	Beryllium	1.60E+00	3.0E-04	0.2	1.04E+00	1.04E+01	3.12E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
180	4	Chromium	6.00E+01	3.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
180	4	Iron	1.54E+04	<1.0E-06	0.5	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
180	4	Manganese	7.09E+02	<1.0E-06	0.2	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
180	4	Nickel	6.46E+01	<1.0E-06	0.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
180	4	Silver	9.68E+00	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
180	4	Total PAH	2.15E-02	1.1E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
180	4	Vanadium	4.85E+01	<1.0E-06	132.9	3.65E-02	3.65E-01	1.09E+00	n/a	n/a	n/a	mg/kg
181	1	Chromium	2.29E+01	1.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
181	1	Thallium	3.50E+00	<1.0E-06	1.0	3.68E-01	3.68E+00	1.10E+01	n/a	n/a	n/a	mg/kg
181	1	Total PAH	3.43E-02	1.8E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
195	1	Chromium	6.33E+01	4.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
195	1	Nickel	7.02E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
195	1	Silver	9.37E+00	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
195	2	Chromium	4.52E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	2	Silver	9.48E+00	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
195	2	Total PAH	2.68E-02	1.4E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
195	3	Chromium	5.03E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	3	Nickel	5.22E+01	<1.0E-06	0.5	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
195	3	Total PAH	4.06E-02	2.1E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
195	4	Chromium	5.29E+01	3.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	4	Nickel	6.23E+01	<1.0E-06	0.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
195	5	Chromium	5.74E+01	3.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	5	Nickel	8.11E+01	<1.0E-06	0.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
195	5	Total PAH	2.40E-02	1.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
195	6	Chromium	4.45E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	6	Nickel	8.71E+01	<1.0E-06	0.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
195	6	Total PAH	2.48E-01	1.3E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
195	7	Chromium	4.93E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	7	Silver	8.06E+00	<1.0E-06	0.3	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
195	8	Arsenic	1.16E+01	4.9E-05	0.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
195	8	Beryllium	7.40E-01	1.4E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
195	8	Chromium	6.79E+01	4.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	8	Cobalt	1.82E+01	<1.0E-06	1.3	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg
195	8	Nickel	7.01E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
195	8	Total PAH	2.16E-01	1.1E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
195	8	Vanadium	4.04E+01	<1.0E-06	110.7	3.65E-02	3.65E-01	1.09E+00	n/a	n/a	n/a	mg/kg
195	9	Chromium	6.08E+01	3.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	9	Nickel	7.93E+01	<1.0E-06	0.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
195	10	Chromium	4.51E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	10	Nickel	7.40E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
195	10	Silver	1.31E+01	<1.0E-06	0.5	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
195	11	Aluminum	2.81E+04	<1.0E-06	0.6	4.41E+03	4.41E+04	1.32E+05	n/a	n/a	n/a	mg/kg
195	11	Arsenic	1.35E+01	5.7E-05	0.8	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
195	11	Barium	4.53E+02	<1.0E-06	0.3	1.40E+02	1.40E+03	4.21E+03	n/a	n/a	n/a	mg/kg
195	11	Chromium	5.05E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	11	Cobalt	2.77E+01	<1.0E-06	2.0	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
195	11	Iron	1.97E+04	<1.0E-06	0.6	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
195	11	Nickel	6.77E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
195	11	Thallium	6.60E-01	<1.0E-06	0.2	3.68E-01	3.68E+00	1.10E+01	n/a	n/a	n/a	mg/kg
195	11	Vanadium	7.97E+01	<1.0E-06	218.4	3.65E-02	3.65E-01	1.09E+00	n/a	n/a	n/a	mg/kg
195	12	Beryllium	7.50E-01	1.4E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
195	12	Chromium	7.04E+01	4.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	12	Nickel	6.78E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
195	13	Chromium	6.55E+01	4.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	13	Nickel	6.91E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
195	14	Chromium	5.94E+01	3.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	14	Nickel	7.04E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
195	15	Chromium	4.82E+01	3.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	16	Chromium	4.45E+01	2.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	16	Nickel	8.16E+01	<1.0E-06	0.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
195	17	Chromium	8.22E+01	5.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
195	17	Mercury	4.17E-01	<1.0E-06	0.2	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
195	17	Nickel	5.93E+01	<1.0E-06	0.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
195	17	PCB, Total	7.40E-01	1.2E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
195	17	Silver	1.01E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
195	17	Thallium	5.40E-01	<1.0E-06	0.1	3.68E-01	3.68E+00	1.10E+01	n/a	n/a	n/a	mg/kg
195	17	Total PAH	3.16E-01	1.6E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
195	17	Uranium-235	1.32E-01	1.7E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
195	17	Uranium-238	2.48E+00	7.2E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
204	1	Aluminum	1.48E+04	<1.0E-06	0.3	4.41E+03	4.41E+04	1.32E+05	n/a	n/a	n/a	mg/kg
204	1	Beryllium	1.36E+00	2.6E-04	0.1	1.04E+00	1.04E+01	3.12E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
204	1	Cadmium	2.73E+00	3.4E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
204	1	Chromium	7.40E+01	4.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
204	1	Iron	4.19E+04	<1.0E-06	1.3	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
204	1	PCB, Total	2.53E+00	4.0E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
204	1	Uranium-235	1.80E-01	2.3E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
204	1	Uranium-238	5.20E+00	1.5E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
204	1	Vanadium	7.55E+01	<1.0E-06	206.9	3.65E-02	3.65E-01	1.09E+00	n/a	n/a	n/a	mg/kg
204	2	Aluminum	1.37E+04	<1.0E-06	0.3	4.41E+03	4.41E+04	1.32E+05	n/a	n/a	n/a	mg/kg
204	2	Chromium	1.80E+01	1.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
204	2	PCB, Total	1.70E-01	2.7E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
204	3	Chromium	2.06E+01	1.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
204	3	Uranium-238	2.50E+00	7.2E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
204	4	Antimony	1.10E+00	<1.0E-06	0.2	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
204	4	Chromium	2.89E+01	1.9E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
204	4	Uranium-235	1.88E-01	2.4E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
204	4	Uranium-238	9.72E+00	2.8E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
204	18	Cesium-137	6.30E-01	3.7E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
204	18	Uranium	1.60E+01	<1.0E-06	0.1	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
204	18	Uranium-235	1.25E-01	1.6E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
204	18	Uranium-238	5.37E+00	1.6E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
204	23	Americium-241	3.71E+00	3.4E-06	<0.1	n/a	n/a	n/a	1.09E+00	1.09E+01	1.09E+02	pCi/g
204	23	Beryllium	1.33E+00	2.5E-04	0.1	1.04E+00	1.04E+01	3.12E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
204	23	Cesium-137	1.17E+00	6.9E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
204	23	Chromium	1.75E+02	1.1E-05	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
204	23	Cobalt-60	1.23E-02	3.5E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
204	23	PCB, Total	7.90E+01	1.2E-03	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
204	23	Uranium	1.31E+04	<1.0E-06	94.9	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
204	23	Uranium-234	4.45E+02	9.2E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
204	23	Uranium-235	5.70E+01	7.2E-04	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
204	23	Uranium-238	4.39E+03	1.3E-02	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
486	1	Cesium-137	1.71E+00	1.00E-04	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
487	1	Cesium-137	1.38E+00	8.10E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
492	1	Arsenic	1.47E+01	6.2E-05	0.9	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
492	1	Beryllium	1.04E+01	2.0E-03	1.0	1.04E+00	1.04E+01	3.12E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
492	1	Cadmium	3.14E+00	3.9E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
492	1	Chromium	1.04E+03	6.7E-05	0.5	2.14E+02	2.14E+03	6.42E+03	1.55E+01	1.55E+02	1.55E+03	mg/kg
492	1	Cobalt-60	9.63E-03	2.7E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
492	1	Neptunium-237	2.09E-01	3.9E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
492	1	PCB, Total	4.41E+01	6.9E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
492	1	Uranium	1.77E+03	<1.0E-06	12.9	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
492	1	Uranium-234	5.39E+01	1.1E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
492	1	Uranium-235	5.72E+00	7.3E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
492	1	Uranium-238	3.83E+02	1.1E-03	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
492	1	Vanadium	4.32E+01	<1.0E-06	118.4	3.65E-02	3.65E-01	1.09E+00	n/a	n/a	n/a	mg/kg
493	1	Aluminum	1.44E+04	<1.0E-06	0.3	4.41E+03	4.41E+04	1.32E+05	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
493	1	Barium	4.04E+02	<1.0E-06	0.3	1.40E+02	1.40E+03	4.21E+03	n/a	n/a	n/a	mg/kg
493	1	Beryllium	9.91E-01	1.9E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
493	1	Chromium	6.61E+01	4.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
493	1	Cobalt	3.79E+01	<1.0E-06	2.8	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg
493	1	Cobalt-60	1.36E-02	3.9E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
493	1	Manganese	3.55E+03	<1.0E-06	0.8	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
493	1	Mercury	2.60E-01	<1.0E-06	0.1	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
493	1	Neptunium-237	1.22E-01	2.3E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
493	1	Nickel	2.13E+02	<1.0E-06	2.1	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
493	1	PCB, Total	2.60E-01	4.1E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
493	1	Total PAH	5.00E-01	2.6E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
493	1	Uranium-235	1.65E-01	2.1E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
493	1	Uranium-238	5.50E+00	1.6E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
493	1	Vanadium	4.05E+01	<1.0E-06	111.0	3.65E-02	3.65E-01	1.09E+00	n/a	n/a	n/a	mg/kg
517	1	Beryllium	7.39E-01	1.4E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
517	1	Chromium	4.91E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
517	1	Cobalt-60	6.39E-03	1.8E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
517	1	Neptunium-237	1.07E+00	2.0E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
517	1	Nickel	1.72E+02	<1.0E-06	1.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
517	1	PCB, Total	5.00E-01	7.8E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
517	1	Uranium-235	1.60E-01	2.0E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
517	1	Uranium-238	3.89E+00	1.1E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
541	1	Aluminum	1.43E+04	<1.0E-06	0.3	4.41E+03	4.41E+04	1.32E+05	n/a	n/a	n/a	mg/kg
541	1	Americium-241	7.53E+00	6.9E-06	<0.1	n/a	n/a	n/a	1.09E+00	1.09E+01	1.09E+02	pCi/g
541	1	Beryllium	6.98E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
541	1	Cadmium	1.68E+00	2.1E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
541	1	Cesium-137	9.58E-01	5.6E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
541	1	Chromium	8.24E+02	5.3E-05	0.4	2.14E+02	2.14E+03	6.42E+03	1.55E+01	1.55E+02	1.55E+03	mg/kg
541	1	Cobalt-60	1.01E-02	2.9E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
541	1	Iron	1.60E+04	<1.0E-06	0.5	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
541	1	Neptunium-237	5.52E-02	1.0E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
541	1	Nickel	1.52E+01	<1.0E-06	0.1	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
541	1	PCB, Total	6.06E+01	9.5E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
541	1	Total PAH	2.33E+00	1.2E-04	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
541	1	Uranium	6.38E+03	<1.0E-06	46.3	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
541	1	Uranium-234	1.43E+02	3.0E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
541	1	Uranium-235	1.76E+01	2.2E-04	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
541	1	Uranium-238	1.00E+03	2.9E-03	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
541	1	Vanadium	3.04E+01	<1.0E-06	83.4	3.65E-02	3.65E-01	1.09E+00	n/a	n/a	n/a	mg/kg
561	1	Antimony	9.36E-01	<1.0E-06	0.2	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
561	1	Arsenic	1.66E+01	7.0E-05	1.0	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
561	1	Beryllium	6.85E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
561	1	Chromium	8.58E+01	5.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
561	1	Cobalt	1.07E+01	<1.0E-06	0.8	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg
561	1	Cobalt-60	7.06E-02	2.0E-05	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
561	1	Iron	2.05E+04	<1.0E-06	0.6	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
561	1	Manganese	1.61E+03	<1.0E-06	0.4	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
561	1	PCB, Total	1.04E+00	1.6E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
561	1	Total PAH	1.65E-01	8.5E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
561	1	Uranium	2.65E+02	<1.0E-06	1.9	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
561	1	Uranium-234	7.84E+00	1.6E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
561	1	Uranium-235	1.37E+00	1.7E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
561	1	Uranium-238	1.07E+02	3.1E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
561	1	Vanadium	3.76E+01	<1.0E-06	103.1	3.65E-02	3.65E-01	1.09E+00	n/a	n/a	n/a	mg/kg
561	2	Antimony	5.33E+00	<1.0E-06	1.0	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
561	2	Arsenic	1.30E+01	5.5E-05	0.8	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
561	2	Beryllium	6.34E-01	1.2E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
561	2	Cesium-137	4.09E-01	2.4E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
561	2	Chromium	2.88E+02	1.9E-05	0.1	2.14E+02	2.14E+03	6.42E+03	1.55E+01	1.55E+02	1.55E+03	mg/kg
561	2	Cobalt	1.14E+01	<1.0E-06	0.8	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg
561	2	Cobalt-60	2.76E-02	7.9E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
561	2	Manganese	1.12E+03	<1.0E-06	0.3	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
561	2	PCB, Total	1.64E+01	2.6E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
561	2	Thallium	4.09E-01	<1.0E-06	0.1	3.68E-01	3.68E+00	1.10E+01	n/a	n/a	n/a	mg/kg
561	2	Total PAH	4.43E-01	2.3E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
561	2	Uranium	1.38E+03	<1.0E-06	10.0	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
561	2	Uranium-234	4.06E+01	8.4E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
561	2	Uranium-235	7.09E+00	9.0E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
561	2	Uranium-238	4.00E+02	1.2E-03	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
561	2	Vanadium	3.46E+01	<1.0E-06	94.7	3.65E-02	3.65E-01	1.09E+00	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
562	1	Uranium	8.73E+01	<1.0E-06	0.6	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
562	1	Uranium-238	2.73E+00	7.9E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
562	2	PCB, Total	1.58E+00	2.5E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
562	2	Uranium-234	5.34E+01	1.1E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
562	2	Uranium-235	8.96E+00	1.1E-04	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
562	2	Uranium-238	5.81E+02	1.7E-03	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
562	3	Chromium	3.82E+01	2.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
562	3	PCB, Total	2.40E-01	3.8E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
562	3	Total PAH	2.20E-01	1.1E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
562	3	Uranium	5.89E+01	<1.0E-06	0.4	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
562	3	Uranium-235	1.63E-01	2.1E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
562	3	Uranium-238	1.09E+01	3.2E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
562	4	Chromium	4.67E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
562	4	Uranium	2.10E+01	<1.0E-06	0.2	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
562	4	Uranium-238	2.24E+00	6.5E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
562	5	Chromium	1.53E+02	9.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
562	5	PCB, Total	9.50E-01	1.5E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
562	5	Total PAH	7.05E-02	3.6E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
562	5	Uranium	2.08E+02	<1.0E-06	1.5	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
562	5	Uranium-234	8.57E+00	1.8E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
562	5	Uranium-235	9.50E-01	1.2E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
562	5	Uranium-238	6.24E+01	1.8E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
563	1	Cadmium	8.96E-01	1.1E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
563	1	Chromium	2.85E+02	1.8E-05	0.1	2.14E+02	2.14E+03	6.42E+03	1.55E+01	1.55E+02	1.55E+03	mg/kg
563	1	PCB, Total	7.40E-01	1.2E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
563	1	Uranium	1.51E+01	<1.0E-06	0.1	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
563	1	Uranium-238	2.76E+00	8.0E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
563	2	Cesium-137	6.47E-01	3.8E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
563	2	Uranium-238	1.49E+00	4.3E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
564	1	Arsenic	4.30E+01	1.8E-04	2.6	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
564	1	Beryllium	2.12E+00	4.0E-04	0.2	1.04E+00	1.04E+01	3.12E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
564	1	Cadmium	1.96E+00	2.4E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
564	1	Cesium-137	6.20E-01	3.6E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
564	1	Chromium	7.49E+01	4.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
564	1	Iron	3.66E+04	<1.0E-06	1.1	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
564	1	Mercury	2.30E-01	<1.0E-06	0.1	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
564	1	Nickel	2.24E+01	<1.0E-06	0.2	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
564	1	PCB, Total	1.93E+00	3.0E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
564	1	Thallium	2.36E+00	<1.0E-06	0.6	3.68E-01	3.68E+00	1.10E+01	n/a	n/a	n/a	mg/kg
564	1	Thorium-230	5.01E+00	1.4E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
564	1	Uranium	5.83E+01	<1.0E-06	0.4	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
564	1	Uranium-234	6.93E+00	1.4E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
564	1	Uranium-235	3.87E-01	4.9E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
564	1	Uranium-238	8.33E+00	2.4E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
564	1	Vanadium	8.06E+01	<1.0E-06	220.8	3.65E-02	3.65E-01	1.09E+00	n/a	n/a	n/a	mg/kg
567	3	Chromium	3.79E+01	2.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
567	4	Aluminum	1.25E+04	<1.0E-06	0.3	4.41E+03	4.41E+04	1.32E+05	n/a	n/a	n/a	mg/kg
567	4	Chromium	1.63E+01	1.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
567	4	Uranium-238	1.05E+00	3.0E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
12	1	Aluminum	8.19E+03	<1.0E-06	0.2	4.41E+03	4.41E+04	1.32E+05	n/a	n/a	n/a	mg/kg
12	1	Arsenic	1.34E+01	5.7E-05	0.8	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
12	1	Beryllium	6.72E+00	1.3E-03	0.6	1.04E+00	1.04E+01	3.12E+01	5.33E-03	5.33E-02	5.33E-01	mg/kg
12	1	Cadmium	1.02E+00	1.3E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
12	1	Chromium	6.33E+01	4.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
12	1	Cobalt	9.16E+00	<1.0E-06	0.7	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg
12	1	Iron	3.01E+04	<1.0E-06	0.9	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
12	1	Manganese	1.01E+03	<1.0E-06	0.2	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
12	1	Mercury	8.80E+00	<1.0E-06	4.1	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
12	1	Nickel	7.74E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
12	1	PCB, Total	3.90E-01	6.1E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
12	1	Silver	1.10E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
12	1	Thallium	1.03E+00	<1.0E-06	0.3	3.68E-01	3.68E+00	1.10E+01	n/a	n/a	n/a	mg/kg
12	1	Total PAH	1.70E-01	8.7E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
12	1	Uranium	3.76E+02	<1.0E-06	2.7	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
12	1	Uranium-234	1.50E+01	3.1E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
12	1	Uranium-235	1.53E+00	1.9E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
12	1	Uranium-238	6.68E+01	1.9E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
12	1	Vanadium	2.80E+01	<1.0E-06	76.8	3.65E-02	3.65E-01	1.09E+00	n/a	n/a	n/a	mg/kg
13	1	PCB, Total	7.00E-01	1.1E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
13	4	Uranium-238	1.32E+00	3.8E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
13	5	Aluminum	1.13E+04	<1.0E-06	0.3	4.41E+03	4.41E+04	1.32E+05	n/a	n/a	n/a	mg/kg
13	5	Antimony	8.20E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
13	5	Cadmium	1.20E+00	1.5E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
13	5	Nickel	1.17E+02	<1.0E-06	1.1	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
13	5	PCB, Total	1.05E+00	1.6E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
13	5	Total PAH	6.65E-02	3.4E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
13	5	Uranium	1.19E+02	<1.0E-06	0.9	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
13	6	Uranium-238	1.32E+00	3.8E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
13	9	Neptunium-237	8.90E-01	1.6E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
13	9	Uranium	1.82E+01	<1.0E-06	0.1	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
13	9	Uranium-235	3.11E-01	4.0E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
13	9	Uranium-238	6.08E+00	1.8E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
13	11	Cobalt-60	1.30E-02	3.7E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
14	1	Americium-241	1.27E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.09E+00	1.09E+01	1.09E+02	pCi/g
14	1	Arsenic	1.10E+01	4.7E-05	0.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
14	1	Chromium	6.36E+01	4.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	1	Iron	1.89E+04	<1.0E-06	0.6	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
14	1	Neptunium-237	2.14E-01	4.0E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	1	Nickel	1.40E+02	<1.0E-06	1.3	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
14	1	PCB, Total	5.00E-01	7.8E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	1	Silver	1.67E+01	<1.0E-06	0.6	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
14	1	Technetium-99	4.06E+02	4.7E-06	<0.1	n/a	n/a	n/a	8.67E+01	8.67E+02	8.67E+03	pCi/g
14	1	Uranium	7.21E+01	<1.0E-06	0.5	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
14	1	Uranium-238	1.69E+00	4.9E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	2	Antimony	3.70E+00	<1.0E-06	0.7	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
14	2	Arsenic	1.45E+01	6.2E-05	0.9	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
14	2	Beryllium	7.10E-01	1.3E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
14	2	Chromium	6.65E+01	4.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	2	Iron	3.72E+04	<1.0E-06	1.2	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
14	2	Manganese	1.44E+03	<1.0E-06	0.3	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
14	2	Mercury	2.67E-01	<1.0E-06	0.1	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
14	2	Neptunium-237	7.70E-01	1.4E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	2	Nickel	6.78E+02	<1.0E-06	6.5	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
14	2	PCB, Total	3.90E-01	6.1E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	2	Thorium-230	5.98E+00	1.7E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	2	Total PAH	3.38E-01	1.7E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
14	2	Uranium	2.93E+02	<1.0E-06	2.1	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
14	2	Uranium-234	3.24E+01	6.7E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
14	2	Uranium-235	2.00E+00	2.5E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
14	2	Uranium-238	5.61E+01	1.6E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	3	Arsenic	1.30E+01	5.5E-05	0.8	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
14	3	Chromium	7.01E+01	4.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	3	Iron	3.48E+04	<1.0E-06	1.1	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
14	3	Manganese	1.06E+03	<1.0E-06	0.3	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
14	3	Mercury	7.48E+00	<1.0E-06	3.5	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
14	3	Nickel	5.76E+02	<1.0E-06	5.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
14	3	PCB, Total	8.65E+00	1.4E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	3	Uranium	2.18E+02	<1.0E-06	1.6	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
14	3	Uranium-238	1.50E+00	4.3E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	4	Antimony	4.30E+00	<1.0E-06	0.8	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
14	4	Arsenic	1.33E+01	5.6E-05	0.8	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
14	4	Chromium	7.20E+01	4.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	4	Copper	3.54E+02	<1.0E-06	0.2	1.84E+02	1.84E+03	5.52E+03	n/a	n/a	n/a	mg/kg
14	4	Iron	3.88E+04	<1.0E-06	1.2	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
14	4	Mercury	4.87E-01	<1.0E-06	0.2	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
14	4	Neptunium-237	2.68E+00	5.0E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	4	Nickel	7.31E+02	<1.0E-06	7.0	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
14	4	PCB, Total	6.61E+00	1.0E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	4	Silver	1.17E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
14	4	Thorium-230	8.33E+00	2.3E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
14	4	Total PAH	2.51E-01	1.3E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
14	4	Uranium	3.72E+02	<1.0E-06	2.7	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
14	4	Uranium-234	1.13E+02	2.3E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
14	4	Uranium-235	8.00E+00	1.0E-04	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
14	4	Uranium-238	1.69E+02	4.9E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	5	Antimony	2.30E+00	<1.0E-06	0.4	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
14	5	Arsenic	1.31E+01	5.6E-05	0.8	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
14	5	Cadmium	3.90E+00	4.8E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
14	5	Chromium	4.70E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	5	Cobalt	1.40E+01	<1.0E-06	1.0	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	5	Iron	3.92E+04	<1.0E-06	1.2	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
14	5	Manganese	8.28E+02	<1.0E-06	0.2	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
14	5	Mercury	1.09E+01	<1.0E-06	5.1	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
14	5	Neptunium-237	1.74E+00	3.2E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	5	Nickel	4.61E+02	<1.0E-06	4.4	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
14	5	PCB, Total	1.00E+00	1.6E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	5	Silver	1.29E+01	<1.0E-06	0.5	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
14	5	Technetium-99	1.01E+02	1.2E-06	<0.1	n/a	n/a	n/a	8.67E+01	8.67E+02	8.67E+03	pCi/g
14	5	Thallium	4.10E-01	<1.0E-06	0.1	3.68E-01	3.68E+00	1.10E+01	n/a	n/a	n/a	mg/kg
14	5	Thorium-230	1.39E+01	3.9E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
14	5	Total PAH	1.21E-01	6.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
14	5	Uranium	2.62E+02	<1.0E-06	1.9	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
14	5	Uranium-234	5.22E+01	1.1E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
14	5	Uranium-235	3.33E+00	4.2E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
14	5	Uranium-238	9.42E+01	2.7E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	6	Antimony	2.70E+00	<1.0E-06	0.5	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
14	6	Cadmium	8.40E-01	1.0E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
14	6	Chromium	4.46E+02	2.9E-05	0.2	2.14E+02	2.14E+03	6.42E+03	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	6	Mercury	3.47E-01	<1.0E-06	0.2	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
14	6	Neptunium-237	2.65E+00	4.9E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	6	Nickel	9.63E+02	<1.0E-06	9.3	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
14	6	PCB, Total	5.00E+00	7.8E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	6	Silver	1.19E+01	<1.0E-06	0.5	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
14	6	Uranium	5.79E+02	<1.0E-06	4.2	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
14	6	Uranium-234	3.41E+01	7.1E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
14	6	Uranium-235	2.27E+00	2.9E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
14	6	Uranium-238	5.08E+01	1.5E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	7	Antimony	7.50E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
14	7	Arsenic	1.13E+01	4.8E-05	0.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
14	7	Cadmium	2.70E+00	3.3E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
14	7	Chromium	6.46E+01	4.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	7	Mercury	7.82E+00	<1.0E-06	3.7	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
14	7	Neptunium-237	1.49E+00	2.8E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	7	Nickel	1.22E+03	<1.0E-06	11.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
14	7	PCB, Total	7.60E+00	1.2E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	7	Total PAH	6.31E-02	3.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
14	7	Uranium	3.33E+02	<1.0E-06	2.4	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
14	7	Uranium-234	1.28E+01	2.7E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
14	7	Uranium-235	9.60E-01	1.2E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
14	7	Uranium-238	2.13E+01	6.2E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	8	Antimony	6.10E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
14	8	Arsenic	1.14E+01	4.8E-05	0.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
14	8	Chromium	4.60E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	8	Mercury	7.90E+00	<1.0E-06	3.7	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
14	8	Neptunium-237	8.80E-01	1.6E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	8	Nickel	6.73E+02	<1.0E-06	6.5	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
14	8	PCB, Total	5.00E+00	7.8E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	8	Silver	9.63E+00	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
14	8	Total PAH	6.28E-02	3.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
14	8	Uranium	3.35E+02	<1.0E-06	2.4	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
14	8	Uranium-235	2.38E-01	3.0E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
14	8	Uranium-238	5.92E+00	1.7E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	9	Antimony	2.00E+00	<1.0E-06	0.4	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
14	9	Arsenic	1.40E+01	6.0E-05	0.9	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
14	9	Cadmium	9.40E-01	1.2E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
14	9	Cesium-137	4.53E-01	2.7E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
14	9	Chromium	4.64E+01	3.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
14	9	Mercury	1.13E+00	<1.0E-06	0.5	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
14	9	Neptunium-237	1.09E+01	2.0E-04	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	9	Nickel	9.43E+02	<1.0E-06	9.1	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
14	9	PCB, Total	6.84E+00	1.1E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	9	Technetium-99	1.96E+02	2.3E-06	<0.1	n/a	n/a	n/a	8.67E+01	8.67E+02	8.67E+03	pCi/g
14	9	Total PAH	4.87E-01	2.5E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
14	9	Uranium	1.46E+03	<1.0E-06	10.6	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
14	9	Uranium-234	8.32E+02	1.7E-04	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
14	9	Uranium-235	5.46E+01	6.9E-04	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
14	9	Uranium-238	1.20E+03	3.5E-03	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
14	10	Antimony	9.40E-01	<1.0E-06	0.2	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
14	10	Arsenic	1.12E+01	4.8E-05	0.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
14	10	Chromium	4.19E+01	2.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	10	Iron	2.75E+04	<1.0E-06	0.9	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
14	10	Mercury	2.51E+01	<1.0E-06	11.8	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
14	10	Neptunium-237	2.64E+00	4.9E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
14	10	Nickel	6.00E+02	<1.0E-06	5.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
14	10	PCB, Total	9.38E+00	1.5E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
14	10	Total PAH	2.72E-01	1.4E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
14	10	Uranium	2.88E+02	<1.0E-06	2.1	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
14	10	Uranium-234	2.42E+01	5.0E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
14	10	Uranium-235	1.76E+00	2.2E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
14	10	Uranium-238	4.09E+01	1.2E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	1	Antimony	6.40E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
15	1	Arsenic	1.24E+01	5.3E-05	0.8	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	1	Chromium	5.61E+01	3.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	1	Copper	1.95E+02	<1.0E-06	0.1	1.84E+02	1.84E+03	5.52E+03	n/a	n/a	n/a	mg/kg
15	1	Iron	2.95E+04	<1.0E-06	0.9	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
15	1	Nickel	1.33E+02	<1.0E-06	1.3	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
15	1	PCB, Total	7.80E-02	1.2E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	1	Silver	1.23E+01	<1.0E-06	0.5	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
15	1	Total PAH	1.71E+00	8.8E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	1	Uranium	3.09E+01	<1.0E-06	0.2	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
15	1	Uranium-238	1.85E+00	5.3E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	2	Antimony	6.60E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
15	2	Arsenic	1.63E+01	6.9E-05	1.0	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	2	Chromium	5.90E+01	3.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	2	Iron	3.89E+04	<1.0E-06	1.2	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
15	2	Mercury	9.33E+00	<1.0E-06	4.4	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
15	2	Neptunium-237	1.35E-01	2.5E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
15	2	Nickel	1.97E+02	<1.0E-06	1.9	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
15	2	PCB, Total	3.30E-01	5.2E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	2	Total PAH	2.11E+00	1.1E-04	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	2	Uranium	1.32E+02	<1.0E-06	1.0	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
15	2	Uranium-234	6.51E+00	1.4E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
15	2	Uranium-235	3.80E-01	4.8E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
15	2	Uranium-238	1.21E+01	3.5E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	3	Antimony	2.45E+01	<1.0E-06	4.4	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	3	Arsenic	2.60E+01	1.1E-04	1.6	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	3	Beryllium	7.60E-01	1.4E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
15	3	Cadmium	1.19E+01	1.5E-05	0.2	4.90E+00	4.90E+01	1.47E+02	8.09E-01	8.09E+00	8.09E+01	mg/kg
15	3	Chromium	7.53E+01	4.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	3	Cobalt	3.41E+01	<1.0E-06	2.5	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg
15	3	Copper	1.40E+03	<1.0E-06	0.8	1.84E+02	1.84E+03	5.52E+03	n/a	n/a	n/a	mg/kg
15	3	Iron	9.20E+04	<1.0E-06	2.9	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
15	3	Lead	3.79E+02									mg/kg
15	3	Manganese	1.60E+03	<1.0E-06	0.4	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
15	3	Mercury	2.74E+00	<1.0E-06	1.3	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
15	3	Neptunium-237	4.10E+00	7.6E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
15	3	Nickel	7.57E+02	<1.0E-06	7.3	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
15	3	PCB, Total	6.82E+00	1.1E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	3	Selenium	2.65E+01	<1.0E-06	0.1	2.30E+01	2.30E+02	6.90E+02	n/a	n/a	n/a	mg/kg
15	3	Silver	3.20E+00	<1.0E-06	0.1	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
15	3	Technetium-99	3.67E+02	4.2E-06	<0.1	n/a	n/a	n/a	8.67E+01	8.67E+02	8.67E+03	pCi/g
15	3	Thorium-230	7.23E+00	2.0E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
15	3	Total PAH	1.45E+00	7.5E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	3	Uranium	2.16E+02	<1.0E-06	1.6	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
15	3	Uranium-234	6.96E+01	1.4E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
15	3	Uranium-235	4.21E+00	5.3E-05	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
15	3	Uranium-238	9.67E+01	2.8E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	4	Antimony	7.40E+00	<1.0E-06	1.3	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
15	4	Arsenic	3.47E+01	1.5E-04	2.1	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	4	Cadmium	1.40E+00	1.7E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
15	4	Chromium	1.02E+02	6.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	4	Copper	7.05E+02	<1.0E-06	0.4	1.84E+02	1.84E+03	5.52E+03	n/a	n/a	n/a	mg/kg
15	4	Iron	7.81E+04	<1.0E-06	2.4	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
15	4	Lead	5.12E+02									mg/kg
15	4	Manganese	1.54E+03	<1.0E-06	0.4	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
15	4	Mercury	1.41E+01	<1.0E-06	6.6	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
15	4	Neptunium-237	8.00E-01	1.5E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
15	4	Nickel	1.37E+03	<1.0E-06	13.2	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
15	4	PCB, Total	2.67E+01	4.2E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	4	Silver	1.46E+01	<1.0E-06	0.6	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	4	Total PAH	2.44E+00	1.3E-04	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	4	Uranium	1.57E+02	<1.0E-06	1.1	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
15	4	Uranium-234	1.07E+01	2.2E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
15	4	Uranium-235	4.30E-01	5.5E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
15	4	Uranium-238	1.87E+01	5.4E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	5	Antimony	3.10E+00	<1.0E-06	0.6	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
15	5	Arsenic	1.28E+01	5.4E-05	0.8	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	5	Cadmium	1.50E+00	1.9E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
15	5	Chromium	4.28E+01	2.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	5	Copper	5.63E+03	<1.0E-06	3.1	1.84E+02	1.84E+03	5.52E+03	n/a	n/a	n/a	mg/kg
15	5	Mercury	3.38E-01	<1.0E-06	0.2	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
15	5	Neptunium-237	6.90E-01	1.3E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
15	5	Nickel	5.10E+02	<1.0E-06	4.9	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
15	5	PCB, Total	2.51E+01	3.9E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	5	Silver	1.46E+01	<1.0E-06	0.6	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
15	5	Technetium-99	1.07E+02	1.2E-06	<0.1	n/a	n/a	n/a	8.67E+01	8.67E+02	8.67E+03	pCi/g
15	5	Total PAH	5.11E-01	2.6E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	5	Uranium	2.13E+02	<1.0E-06	1.5	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
15	5	Uranium-234	5.83E+00	1.2E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
15	5	Uranium-235	4.60E-01	5.8E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
15	5	Uranium-238	1.03E+01	3.0E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	5	Zinc	1.52E+03	<1.0E-06	0.1	1.38E+03	1.38E+04	4.14E+04	n/a	n/a	n/a	mg/kg
15	6	Antimony	5.10E+00	<1.0E-06	0.9	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
15	6	Arsenic	1.24E+01	5.3E-05	0.8	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	6	Cadmium	1.50E+00	1.9E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
15	6	Chromium	5.80E+01	3.7E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	6	Cobalt	1.62E+01	<1.0E-06	1.2	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg
15	6	Copper	4.23E+02	<1.0E-06	0.2	1.84E+02	1.84E+03	5.52E+03	n/a	n/a	n/a	mg/kg
15	6	Iron	3.15E+04	<1.0E-06	1.0	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
15	6	Mercury	4.10E-01	<1.0E-06	0.2	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
15	6	Neptunium-237	6.40E-01	1.2E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
15	6	Nickel	3.24E+02	<1.0E-06	3.1	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
15	6	PCB, Total	6.17E+00	9.7E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	6	Silver	1.09E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
15	6	Total PAH	1.62E+00	8.4E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	6	Uranium	6.70E+01	<1.0E-06	0.5	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
15	6	Uranium-234	8.74E+00	1.8E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
15	6	Uranium-235	5.70E-01	7.2E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
15	6	Uranium-238	1.54E+01	4.5E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	7	Antimony	7.50E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
15	7	Arsenic	1.61E+01	6.8E-05	1.0	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	7	Cadmium	1.00E+00	1.2E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
15	7	Chromium	7.87E+01	5.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	7	Copper	7.33E+02	<1.0E-06	0.4	1.84E+02	1.84E+03	5.52E+03	n/a	n/a	n/a	mg/kg
15	7	Iron	3.42E+04	<1.0E-06	1.1	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
15	7	Manganese	1.11E+03	<1.0E-06	0.3	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
15	7	Neptunium-237	2.23E-01	4.1E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
15	7	Nickel	5.59E+02	<1.0E-06	5.4	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
15	7	PCB, Total	2.57E+01	4.0E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	7	Silver	1.29E+01	<1.0E-06	0.5	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
15	7	Total PAH	1.59E-01	8.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	7	Uranium	5.39E+01	<1.0E-06	0.4	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
15	7	Uranium-234	6.49E+00	1.3E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
15	7	Uranium-235	4.50E-01	5.7E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
15	7	Uranium-238	8.05E+00	2.3E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	8	Antimony	5.40E+00	<1.0E-06	1.0	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
15	8	Arsenic	1.17E+01	4.9E-05	0.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	8	Chromium	7.74E+01	5.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	8	Iron	2.83E+04	<1.0E-06	0.9	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
15	8	Mercury	1.00E+01	<1.0E-06	4.7	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
15	8	Neptunium-237	3.65E-01	6.8E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
15	8	Nickel	1.82E+02	<1.0E-06	1.8	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
15	8	PCB, Total	4.90E+00	7.7E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	8	Silver	1.36E+01	<1.0E-06	0.5	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
15	8	Total PAH	3.59E-01	1.8E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	8	Uranium	4.46E+01	<1.0E-06	0.3	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
15	8	Uranium-235	3.04E-01	3.9E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
15	8	Uranium-238	6.64E+00	1.9E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	9	Arsenic	1.10E+01	4.7E-05	0.7	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
15	9	Chromium	9.56E+01	6.1E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	9	Iron	2.76E+04	<1.0E-06	0.9	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
15	9	Neptunium-237	1.28E-01	2.4E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
15	9	Nickel	1.49E+02	<1.0E-06	1.4	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
15	9	PCB, Total	3.30E-01	5.2E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
15	9	Silver	1.54E+01	<1.0E-06	0.6	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
15	9	Total PAH	2.38E-01	1.2E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	9	Uranium	3.07E+01	<1.0E-06	0.2	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
15	9	Uranium-235	2.42E-01	3.1E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
15	9	Uranium-238	7.12E+00	2.1E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
15	10	Chromium	3.55E+01	2.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
15	10	Mercury	7.84E+00	<1.0E-06	3.7	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
15	10	Nickel	1.46E+02	<1.0E-06	1.4	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
15	10	Silver	1.08E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
15	10	Total PAH	1.28E-01	6.6E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
15	10	Uranium	6.47E+01	<1.0E-06	0.5	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
16	1	Cesium-137	1.10E+00	6.4E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
16	1	PCB, Total	9.60E-02	1.5E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
16	1	Total PAH	2.72E-02	1.4E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
16	2	Beryllium	8.40E-01	1.6E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
16	2	Chromium	2.04E+01	1.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
16	2	Nickel	2.16E+01	<1.0E-06	0.2	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
16	3	PCB, Total	9.49E-01	1.5E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
16	4	Cesium-137	3.66E+01	2.1E-03	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
16	4	Cobalt-60	8.53E-03	2.4E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
16	4	Neptunium-237	7.12E+00	1.3E-04	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
16	4	PCB, Total	3.20E-01	5.0E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
16	4	Technetium-99	2.96E+02	3.4E-06	<0.1	n/a	n/a	n/a	8.67E+01	8.67E+02	8.67E+03	pCi/g
16	4	Thorium-230	5.29E+00	1.5E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
16	4	Total PAH	2.93E+00	1.5E-04	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
16	4	Uranium-234	1.19E+02	2.5E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
16	4	Uranium-235	8.23E+00	1.0E-04	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
16	4	Uranium-238	2.70E+02	7.8E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
518	1	Carbazole	1.17E+01	1.4E-06	<0.1	n/a	n/a	n/a	8.66E+00	8.66E+01	8.66E+02	mg/kg
518	1	Cobalt	6.80E+00	<1.0E-06	0.5	1.37E+00	1.37E+01	4.10E+01	n/a	n/a	n/a	mg/kg
518	1	Nickel	1.29E+01	<1.0E-06	0.1	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
518	1	PCB, Total	6.30E-01	9.9E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
518	1	Total PAH	4.64E+00	2.4E-04	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
518	1	Uranium	2.17E+02	<1.0E-06	1.6	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
518	1	Uranium-238	1.51E+00	4.4E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
520	1	Cesium-137	9.62E-01	5.6E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
520	1	Chromium	3.17E+01	2.0E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
520	1	Iron	1.56E+04	<1.0E-06	0.5	3.22E+03	3.22E+04	9.66E+04	n/a	n/a	n/a	mg/kg
520	1	Mercury	1.07E+01	<1.0E-06	5.0	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
520	1	Neptunium-237	6.56E-01	1.2E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
520	1	Nickel	2.60E+02	<1.0E-06	2.5	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
520	1	Silver	1.30E+01	<1.0E-06	0.5	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
520	1	Thorium-230	1.13E+01	3.2E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
520	1	Total PAH	3.18E-02	1.6E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
520	1	Uranium	2.29E+01	<1.0E-06	0.2	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
520	1	Uranium-235	1.26E-01	1.6E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
520	1	Uranium-238	3.93E+00	1.1E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
520	2	Beryllium	5.79E-01	1.1E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
520	2	Chromium	6.67E+01	4.3E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
520	2	Manganese	5.89E+02	<1.0E-06	0.1	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
520	2	Mercury	1.19E+01	<1.0E-06	5.6	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
520	2	Neptunium-237	7.48E-02	1.4E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
520	2	Nickel	3.11E+02	<1.0E-06	3.0	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
520	2	Total PAH	3.17E-01	1.6E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
520	2	Uranium	3.96E+01	<1.0E-06	0.3	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
520	2	Uranium-238	1.78E+00	5.1E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
520	3	Chromium	3.97E+01	2.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
520	3	Nickel	2.65E+02	<1.0E-06	2.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
520	3	Silver	1.27E+01	<1.0E-06	0.5	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
520	3	Total PAH	1.18E-01	6.1E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
520	3	Uranium	1.92E+01	<1.0E-06	0.1	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
520	3	Uranium-238	1.57E+00	4.5E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
520	4	Chromium	3.82E+01	2.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
520	4	Mercury	9.69E+00	<1.0E-06	4.5	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
520	4	Neptunium-237	7.40E-01	1.4E-05	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
520	4	Nickel	2.82E+02	<1.0E-06	2.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
520	4	Silver	1.04E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
520	4	Total PAH	5.52E-01	2.8E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
520	4	Uranium	2.40E+01	<1.0E-06	0.2	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
520	4	Uranium-235	2.42E-01	3.1E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
520	4	Uranium-238	6.26E+00	1.8E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
520	5	Antimony	9.60E-01	<1.0E-06	0.2	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
520	5	Chromium	3.68E+01	2.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
520	5	Neptunium-237	1.55E-01	2.9E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
520	5	Nickel	1.47E+02	<1.0E-06	1.4	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
520	5	Total PAH	3.87E-01	2.0E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
520	5	Uranium-238	1.45E+00	4.2E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
74	1	PCB, Total	2.97E+00	4.7E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
74	1	Total PAH	3.16E+00	1.6E-04	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
74	1	Uranium-234	7.55E+00	1.6E-06	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
74	1	Uranium-238	3.85E+01	1.1E-04	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
75	1	Cadmium	1.10E+00	1.4E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
75	1	Chromium	7.17E+01	4.6E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
75	1	Copper	3.15E+02	<1.0E-06	0.2	1.84E+02	1.84E+03	5.52E+03	n/a	n/a	n/a	mg/kg
75	1	Nickel	8.87E+01	<1.0E-06	0.9	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
75	1	PCB, Total	2.30E-01	3.6E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
75	1	Total PAH	2.21E-01	1.1E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
78	1	Cadmium	2.36E+00	2.9E-06	<0.1	n/a	n/a	n/a	8.09E-01	8.09E+00	8.09E+01	mg/kg
78	1	Chromium	3.75E+01	2.4E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
78	1	Cobalt-60	5.91E-03	1.7E-06	<0.1	n/a	n/a	n/a	3.50E-03	3.50E-02	3.50E-01	pCi/g
78	1	Naphthalene	1.60E+01	1.4E-05	0.9	1.76E+00	1.76E+01	5.29E+01	1.14E+00	1.14E+01	1.14E+02	mg/kg
78	1	Nickel	2.15E+01	<1.0E-06	0.2	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
78	1	PCB, Total	1.20E+01	1.9E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
78	1	Total PAH	3.91E+01	2.0E-03	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
78	1	Uranium-235	2.64E-01	3.4E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
78	1	Uranium-238	5.29E+00	1.5E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
80	1	Americium-241	6.40E+00	5.9E-06	<0.1	n/a	n/a	n/a	1.09E+00	1.09E+01	1.09E+02	pCi/g
80	1	Antimony	9.10E-01	<1.0E-06	0.2	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
80	1	Beryllium	7.80E-01	1.5E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
80	1	Chromium	1.65E+02	1.1E-05	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
80	1	Mercury	4.50E-01	<1.0E-06	0.2	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
80	1	Neptunium-237	5.05E-01	9.4E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
80	1	PCB, Total	1.46E+01	2.3E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
80	1	Thorium-230	4.40E+00	1.2E-06	<0.1	n/a	n/a	n/a	3.57E+00	3.57E+01	3.57E+02	pCi/g
80	1	Total PAH	1.42E-01	7.3E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
80	1	Uranium	5.72E+03	<1.0E-06	41.6	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
80	1	Uranium-234	2.29E+02	4.8E-05	<0.1	n/a	n/a	n/a	4.82E+00	4.82E+01	4.82E+02	pCi/g
80	1	Uranium-235	3.00E+01	3.8E-04	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
80	1	Uranium-238	1.92E+03	5.6E-03	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
81	1	Aluminum	9.57E+03	<1.0E-06	0.2	4.41E+03	4.41E+04	1.32E+05	n/a	n/a	n/a	mg/kg
81	1	Arsenic	1.03E+01	4.4E-05	0.6	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
81	1	Beryllium	7.57E-01	1.4E-04	<0.1	n/a	n/a	n/a	5.33E-03	5.33E-02	5.33E-01	mg/kg
81	1	Chromium	8.62E+01	5.5E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
81	1	Mercury	8.33E+00	<1.0E-06	3.9	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
81	1	Nickel	7.29E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
81	1	PCB, Total	1.60E+02	2.5E-03	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
81	1	Silver	2.70E+00	<1.0E-06	0.1	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg
81	1	Total PAH	5.53E-01	2.8E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
81	1	Uranium	6.50E+03	<1.0E-06	47.2	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
81	1	Uranium-238	2.29E+00	6.6E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
153	1	PCB, Total	5.09E-01	8.0E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
153	1	Total PAH	8.69E-02	4.5E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
154	1	Arsenic	1.52E+01	6.4E-05	0.9	1.64E+00	1.64E+01	4.93E+01	2.35E-01	2.35E+00	2.35E+01	mg/kg
154	1	Chromium	4.28E+01	2.8E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
154	1	Nickel	9.89E+01	<1.0E-06	1.0	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
154	1	PCB, Total	3.20E+00	5.0E-05	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
154	1	Total PAH	1.04E+00	5.4E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
154	1	Uranium	3.82E+01	<1.0E-06	0.3	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
154	1	Uranium-238	3.06E+00	8.8E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
154	2	PCB, Total	4.00E-01	6.3E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
155	1	Antimony	3.65E+00	<1.0E-06	0.7	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
155	1	Chromium	3.47E+01	2.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
155	1	Neptunium-237	1.03E-01	1.9E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
155	1	Nickel	7.65E+01	<1.0E-06	0.7	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
155	1	PCB, Total	9.20E+00	1.4E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
155	1	Silver	1.11E+01	<1.0E-06	0.4	2.61E+00	2.61E+01	7.82E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Hypothetical Child Residential User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
156	1	Chromium	4.90E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
156	1	Manganese	2.83E+03	<1.0E-06	0.7	4.19E+02	4.19E+03	1.26E+04	n/a	n/a	n/a	mg/kg
156	1	Mercury	9.87E+00	<1.0E-06	4.6	2.13E-01	2.13E+00	6.40E+00	n/a	n/a	n/a	mg/kg
156	1	Nickel	6.16E+01	<1.0E-06	0.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
156	1	PCB, Total	3.00E-01	4.7E-06	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
156	1	Total PAH	8.26E-02	4.2E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
156	1	Uranium	2.32E+01	<1.0E-06	0.2	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
156	1	Uranium-238	2.19E+00	6.3E-06	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
160	1	Antimony	6.80E-01	<1.0E-06	0.1	5.52E-01	5.52E+00	1.66E+01	n/a	n/a	n/a	mg/kg
160	1	Total PAH	5.29E-02	2.7E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
163	1	Chromium	4.94E+01	3.2E-06	<0.1	n/a	n/a	n/a	1.55E+01	1.55E+02	1.55E+03	mg/kg
163	1	Total PAH	1.63E-01	8.4E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
219	1	Neptunium-237	3.31E-01	6.1E-06	<0.1	n/a	n/a	n/a	5.40E-02	5.40E-01	5.40E+00	pCi/g
219	1	Nickel	6.71E+01	<1.0E-06	0.6	1.04E+01	1.04E+02	3.11E+02	n/a	n/a	n/a	mg/kg
219	1	Total PAH	7.50E-02	3.9E-06	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
219	1	Uranium-235	1.92E-01	2.4E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
219	1	Uranium-238	4.40E+00	1.3E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g
488	1	Cesium-137	5.20E-01	3.0E-05	<0.1	n/a	n/a	n/a	1.71E-02	1.71E-01	1.71E+00	pCi/g
488	1	PCB, Total	1.03E+01	1.6E-04	<0.1	n/a	n/a	n/a	6.38E-02	6.38E-01	6.38E+00	mg/kg
488	1	Total PAH	2.50E-01	1.3E-05	<0.1	n/a	n/a	n/a	1.94E-02	1.94E-01	1.94E+00	mg/kg
488	1	Uranium	1.48E+01	<1.0E-06	0.1	1.38E+01	1.38E+02	4.13E+02	n/a	n/a	n/a	mg/kg
488	1	Uranium-235	1.49E-01	1.9E-06	<0.1	n/a	n/a	n/a	7.87E-02	7.87E-01	7.87E+00	pCi/g
488	1	Uranium-238	4.54E+00	1.3E-05	<0.1	n/a	n/a	n/a	3.46E-01	3.46E+00	3.46E+01	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
1	1	Beryllium	3.89E+00	1.9E-04	0.1	2.98E+00	2.98E+01	8.94E+01	2.02E-02	2.02E-01	2.02E+00	mg/kg
1	1	Cesium-137	5.91E-01	1.4E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
1	2	Beryllium	8.23E+00	4.1E-04	0.3	2.98E+00	2.98E+01	8.94E+01	2.02E-02	2.02E-01	2.02E+00	mg/kg
1	2	Cadmium	6.46E+00	1.2E-06	<0.1	n/a	n/a	n/a	5.36E+00	5.36E+01	5.36E+02	mg/kg
1	2	Chromium	2.01E+02	1.2E-06	<0.1	n/a	n/a	n/a	1.65E+02	1.65E+03	1.65E+04	mg/kg
1	2	Mercury	5.94E+00	<1.0E-06	0.9	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
1	2	Nickel	5.75E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
1	2	PCB, Total	3.22E+01	1.1E-04	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
1	2	Silver	3.31E+01	<1.0E-06	0.4	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
1	2	Vanadium	3.49E+01	<1.0E-06	33.4	1.04E-01	1.04E+00	3.13E+00	n/a	n/a	n/a	mg/kg
1	4	Beryllium	7.25E-01	3.6E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
1	4	Nickel	4.69E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
1	5	Beryllium	8.30E+00	4.1E-04	0.3	2.98E+00	2.98E+01	8.94E+01	2.02E-02	2.02E-01	2.02E+00	mg/kg
1	5	Nickel	4.07E+01	<1.0E-06	0.1	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
1	5	Total PAH	9.83E-02	1.1E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
99	1	Mercury	9.53E+00	<1.0E-06	1.5	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
99	1	Nickel	7.02E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
99	1	Silver	1.03E+01	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
194	1	Mercury	6.71E+00	<1.0E-06	1.1	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
194	1	Nickel	5.84E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	1	Silver	1.09E+01	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
194	2	Silver	1.31E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
194	3	Arsenic	1.46E+01	8.3E-06	0.1	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
194	3	Nickel	6.40E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	4	Mercury	8.92E+00	<1.0E-06	1.4	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
194	4	Nickel	6.91E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	4	Silver	1.18E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
194	5	Mercury	8.69E+00	<1.0E-06	1.4	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
194	5	Nickel	7.54E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	5	Silver	1.25E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
194	6	Nickel	8.06E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	6	Silver	9.89E+00	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	7	Nickel	7.71E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	7	Silver	1.25E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
194	8	Total PAH	4.85E-01	5.4E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
194	9	Arsenic	1.14E+01	6.4E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
194	10	Arsenic	1.22E+01	6.9E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
194	10	Cesium-137	5.81E-01	1.4E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
194	10	Nickel	7.60E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	10	Total PAH	2.57E-01	2.9E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
194	11	Mercury	8.09E+00	<1.0E-06	1.3	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
194	11	Nickel	1.01E+02	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	11	Silver	1.33E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
194	12	Nickel	7.86E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	12	Silver	1.20E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
194	12	Total PAH	8.91E-01	9.9E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
194	13	Nickel	6.03E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	13	Total PAH	9.13E-02	1.0E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
194	14	Mercury	8.14E+00	<1.0E-06	1.3	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
194	15	Silver	1.03E+01	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
194	16	Arsenic	1.15E+01	6.5E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
194	16	Beryllium	8.70E-01	4.3E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
194	16	Nickel	7.20E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	16	Vanadium	4.11E+01	<1.0E-06	39.4	1.04E-01	1.04E+00	3.13E+00	n/a	n/a	n/a	mg/kg
194	17	Arsenic	1.16E+01	6.5E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
194	17	Total PAH	1.59E-01	1.8E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
194	18	Arsenic	1.06E+01	6.0E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
194	18	Beryllium	7.40E-01	3.7E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
194	18	Nickel	5.78E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	19	Arsenic	1.07E+01	6.0E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
194	19	Nickel	5.84E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	20	Arsenic	1.18E+01	6.7E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
194	20	Beryllium	1.10E+00	5.4E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
194	20	Cobalt	2.11E+01	<1.0E-06	0.2	8.45E+00	8.45E+01	2.53E+02	n/a	n/a	n/a	mg/kg
194	20	Mercury	7.28E+00	<1.0E-06	1.2	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
194	20	Nickel	6.57E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	20	Silver	1.22E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
194	20	Vanadium	3.81E+01	<1.0E-06	36.5	1.04E-01	1.04E+00	3.13E+00	n/a	n/a	n/a	mg/kg
194	21	Mercury	6.62E+00	<1.0E-06	1.1	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
194	21	Nickel	7.01E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	22	PCB, Total	1.09E+01	3.7E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
194	23	Arsenic	1.16E+01	6.5E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
194	23	Nickel	8.77E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	23	Silver	1.15E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
194	24	Nickel	7.08E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	25	Nickel	6.33E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	26	Beryllium	7.00E-01	3.5E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
194	26	Silver	1.03E+01	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
194	27	Nickel	6.55E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	27	Silver	1.01E+01	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
194	28	Arsenic	1.20E+01	6.8E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
194	28	Beryllium	7.10E-01	3.5E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
194	28	Nickel	6.95E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	28	Silver	1.08E+01	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
194	28	Vanadium	4.06E+01	<1.0E-06	38.9	1.04E-01	1.04E+00	3.13E+00	n/a	n/a	n/a	mg/kg
194	29	Nickel	6.51E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	29	Silver	9.77E+00	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
194	30	Mercury	8.80E+00	<1.0E-06	1.4	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
194	30	Nickel	6.99E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
194	30	Silver	9.76E+00	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
194	31	Cesium-137	5.70E-01	1.4E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
196	1	Nickel	5.56E+02	<1.0E-06	1.9	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
196	2	Nickel	7.36E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
196	2	PCB, Total	1.51E+00	5.1E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
196	2	Total PAH	6.80E-01	7.6E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
211	1	PCB, Total	3.60E-01	1.2E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
211	1	Total PAH	1.04E-01	1.2E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
483	1	Nickel	1.17E+02	<1.0E-06	0.4	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
483	1	Silver	1.12E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
489	1	Nickel	7.88E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
531	1	Arsenic	4.68E+01	2.6E-05	0.3	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
531	1	Iron	5.68E+04	<1.0E-06	0.3	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
531	1	Lead	5.31E+02									mg/kg
531	1	Nickel	1.62E+02	<1.0E-06	0.5	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
47	1	Arsenic	4.52E+01	2.6E-05	0.3	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
47	1	Beryllium	7.00E-01	3.5E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
47	1	Cobalt	1.43E+01	<1.0E-06	0.2	8.45E+00	8.45E+01	2.53E+02	n/a	n/a	n/a	mg/kg
47	1	Iron	2.95E+04	<1.0E-06	0.1	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
47	1	Nickel	8.25E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
47	1	PCB, Total	9.60E-01	3.2E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
47	1	Total PAH	5.41E+01	6.0E-04	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
200	1	Cesium-137	5.74E-01	1.4E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
200	1	Mercury	6.71E+00	<1.0E-06	1.1	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
200	1	Nickel	1.28E+02	<1.0E-06	0.4	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
200	1	PCB, Total	2.60E+00	8.7E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
212	1	Arsenic	1.44E+01	8.1E-06	0.1	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
212	1	Beryllium	8.10E-01	4.0E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
212	1	Cesium-137	6.01E-01	1.5E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
212	1	Iron	4.14E+04	<1.0E-06	0.2	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
212	1	Neptunium-237	4.00E+00	3.1E-06	<0.1	n/a	n/a	n/a	1.30E+00	1.30E+01	1.30E+02	pCi/g
212	1	Nickel	8.69E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
212	1	Thorium-230	2.60E+02	2.2E-06	<0.1	n/a	n/a	n/a	1.18E+02	1.18E+03	1.18E+04	pCi/g
213	1	Nickel	6.67E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
213	1	Silver	1.32E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
213	1	Total PAH	1.72E-01	1.9E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
213	2	Nickel	9.10E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
213	2	Silver	1.13E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
215	1	Iron	3.87E+04	<1.0E-06	0.2	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
215	1	Nickel	7.32E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
216	1	Total PAH	1.49E-01	1.7E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
217	1	Cobalt	1.96E+01	<1.0E-06	0.2	8.45E+00	8.45E+01	2.53E+02	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
217	1	Nickel	8.54E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
217	1	Silver	1.35E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
217	2	Arsenic	1.12E+01	6.3E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
217	2	Cobalt	1.74E+01	<1.0E-06	0.2	8.45E+00	8.45E+01	2.53E+02	n/a	n/a	n/a	mg/kg
217	2	Iron	3.09E+04	<1.0E-06	0.2	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
217	2	Mercury	8.59E+00	<1.0E-06	1.4	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
217	2	Nickel	9.74E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
217	2	Silver	1.61E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
217	2	Total PAH	5.05E-01	5.6E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
221	1	Nickel	7.93E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
221	1	PCB, Total	5.00E-01	1.7E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
221	1	Total PAH	1.02E+00	1.1E-05	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
222	1	Nickel	9.19E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
222	1	PCB, Total	1.40E+00	4.7E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
222	1	Total PAH	1.77E-01	2.0E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
222	1	Uranium-238	1.96E+01	2.3E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
224	1	PCB, Total	4.75E+02	1.6E-03	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
224	1	Total PAH	4.53E+01	5.0E-04	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
224	1	Uranium-238	2.64E+01	3.1E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
226	1	Cesium-137	2.65E+00	6.5E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
226	1	Mercury	9.74E+00	<1.0E-06	1.6	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
226	1	Neptunium-237	1.60E+02	1.2E-04	<0.1	n/a	n/a	n/a	1.30E+00	1.30E+01	1.30E+02	pCi/g
226	1	Nickel	2.10E+02	<1.0E-06	0.7	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
226	1	PCB, Total	1.49E+00	5.0E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
226	1	Total PAH	9.19E-02	1.0E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
226	1	Uranium	4.01E+02	<1.0E-06	0.5	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
226	1	Uranium-238	2.40E+01	2.8E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
227	1	Beryllium	5.52E-01	2.7E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
227	1	Nickel	2.03E+02	<1.0E-06	0.7	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
227	1	PCB, Total	4.14E+00	1.4E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
227	1	Total PAH	3.38E-01	3.8E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
227	1	Uranium	1.02E+02	<1.0E-06	0.1	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
227	1	Uranium-238	4.63E+01	5.4E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
227	2	Beryllium	5.32E-01	2.6E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
227	2	Cobalt	8.99E+00	<1.0E-06	0.1	8.45E+00	8.45E+01	2.53E+02	n/a	n/a	n/a	mg/kg
227	2	Mercury	8.41E+00	<1.0E-06	1.3	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
227	2	Nickel	1.25E+02	<1.0E-06	0.4	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
227	2	PCB, Total	5.82E+00	1.9E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
227	2	Total PAH	1.16E-01	1.3E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
228	1	Chromium	1.89E+02	1.1E-06	<0.1	n/a	n/a	n/a	1.65E+02	1.65E+03	1.65E+04	mg/kg
228	1	Mercury	9.37E+00	<1.0E-06	1.5	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
228	1	Nickel	7.92E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
228	1	Silver	1.16E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
229	1	Nickel	9.14E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
229	1	Total PAH	1.57E-01	1.7E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
229	1	Uranium	1.56E+02	<1.0E-06	0.2	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
229	2	Arsenic	2.12E+01	1.2E-05	0.2	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
229	2	Beryllium	7.90E-01	3.9E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
229	2	Nickel	9.93E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
229	2	Total PAH	1.69E+00	1.9E-05	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
229	2	Uranium-238	2.49E+01	2.9E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
26	1	Arsenic	1.29E+01	7.3E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
26	1	Beryllium	6.69E-01	3.3E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
26	1	Cesium-137	3.16E+00	7.7E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
26	1	PCB, Total	9.33E-01	3.1E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
26	1	Uranium	1.29E+02	<1.0E-06	0.2	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
26	1	Uranium-238	3.47E+01	4.1E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
26	2	Arsenic	4.72E+01	2.7E-05	0.3	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
26	2	Beryllium	9.69E+00	4.8E-04	0.3	2.98E+00	2.98E+01	8.94E+01	2.02E-02	2.02E-01	2.02E+00	mg/kg
26	2	Cesium-137	5.92E+00	1.4E-05	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
26	2	Cobalt	5.20E+01	<1.0E-06	0.6	8.45E+00	8.45E+01	2.53E+02	n/a	n/a	n/a	mg/kg
26	2	Iron	5.32E+04	<1.0E-06	0.3	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
26	2	Nickel	1.13E+02	<1.0E-06	0.4	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
26	2	PCB, Total	2.23E+00	7.5E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
26	2	Thallium	1.39E+01	<1.0E-06	0.6	2.27E+00	2.27E+01	6.80E+01	n/a	n/a	n/a	mg/kg
26	2	Uranium	6.46E+02	<1.0E-06	0.8	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
26	2	Uranium-238	5.14E+01	6.0E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
26	2	Vanadium	3.13E+01	<1.0E-06	29.9	1.04E-01	1.04E+00	3.13E+00	n/a	n/a	n/a	mg/kg
26	3	Arsenic	5.09E+01	2.9E-05	0.4	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
26	3	Barium	4.48E+02	<1.0E-06	0.1	4.15E+02	4.15E+03	1.25E+04	n/a	n/a	n/a	mg/kg
26	3	Beryllium	2.54E+00	1.3E-04	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
26	3	Cesium-137	7.48E-01	1.8E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
26	3	Cobalt	1.21E+01	<1.0E-06	0.1	8.45E+00	8.45E+01	2.53E+02	n/a	n/a	n/a	mg/kg
26	3	PCB, Total	2.52E+00	8.4E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
26	3	Silver	2.59E+01	<1.0E-06	0.3	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
26	3	Total PAH	1.19E+00	1.3E-05	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
26	3	Uranium	9.88E+01	<1.0E-06	0.1	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
26	3	Uranium-238	5.19E+01	6.1E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
26	3	Vanadium	3.77E+01	<1.0E-06	36.1	1.04E-01	1.04E+00	3.13E+00	n/a	n/a	n/a	mg/kg
26	4	Beryllium	6.91E-01	3.4E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
26	4	Cesium-137	6.38E-01	1.6E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
26	4	Lead	1.19E+02									mg/kg
26	4	Mercury	3.07E+00	<1.0E-06	0.5	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
26	4	Neptunium-237	1.36E+01	1.0E-05	<0.1	n/a	n/a	n/a	1.30E+00	1.30E+01	1.30E+02	pCi/g
26	4	Nickel	7.54E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
26	4	PCB, Total	5.54E-01	1.9E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
26	4	Uranium	9.75E+02	<1.0E-06	1.1	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
26	4	Uranium-235	1.08E+01	5.7E-06	<0.1	n/a	n/a	n/a	1.90E+00	1.90E+01	1.90E+02	pCi/g
26	4	Uranium-238	3.66E+02	4.3E-05	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
76	1	Total PAH	1.76E+00	2.0E-05	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
165	1	Antimony	2.20E+00	<1.0E-06	0.1	1.78E+00	1.78E+01	5.34E+01	n/a	n/a	n/a	mg/kg
165	1	Arsenic	6.35E+01	3.6E-05	0.5	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
165	1	Barium	5.84E+02	<1.0E-06	0.1	4.15E+02	4.15E+03	1.25E+04	n/a	n/a	n/a	mg/kg
165	1	Beryllium	6.82E-01	3.4E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
165	1	Cesium-137	3.47E+00	8.5E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
165	1	Nickel	3.47E+01	<1.0E-06	0.1	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
165	1	PCB, Total	8.27E+00	2.8E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
165	1	Silver	3.09E+01	<1.0E-06	0.4	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
165	1	Total PAH	1.87E+00	2.1E-05	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
165	1	Uranium	1.08E+02	<1.0E-06	0.1	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
165	1	Uranium-235	2.05E+00	1.1E-06	<0.1	n/a	n/a	n/a	1.90E+00	1.90E+01	1.90E+02	pCi/g
165	1	Uranium-238	6.41E+01	7.5E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
158	1	Arsenic	1.01E+01	5.7E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
158	1	Cobalt	1.62E+01	<1.0E-06	0.2	8.45E+00	8.45E+01	2.53E+02	n/a	n/a	n/a	mg/kg
158	1	Mercury	1.05E+01	<1.0E-06	1.7	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
158	1	Nickel	7.28E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
158	1	Total PAH	3.69E-01	4.1E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
169	1	Arsenic	2.03E+01	1.1E-05	0.1	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
169	1	Beryllium	8.00E-01	4.0E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
169	1	Chromium	2.15E+02	1.3E-06	<0.1	n/a	n/a	n/a	1.65E+02	1.65E+03	1.65E+04	mg/kg
169	1	Iron	4.16E+04	<1.0E-06	0.2	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
169	1	Mercury	7.87E+00	<1.0E-06	1.3	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
169	1	Nickel	5.49E+02	<1.0E-06	1.8	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
169	1	PCB, Total	1.00E+01	3.3E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
169	1	Total PAH	4.59E+00	5.1E-05	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
176	1	Arsenic	4.86E+01	2.7E-05	0.4	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
176	1	Lead	4.45E+02									mg/kg
176	1	Nickel	1.07E+02	<1.0E-06	0.4	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
19	1	Beryllium	1.10E+00	5.4E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
19	1	Total PAH	5.23E+00	5.8E-05	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
138	1	Antimony	5.39E+00	<1.0E-06	0.3	1.78E+00	1.78E+01	5.34E+01	n/a	n/a	n/a	mg/kg
138	1	Arsenic	1.06E+01	6.0E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
138	1	Cadmium	5.42E+00	1.0E-06	<0.1	n/a	n/a	n/a	5.36E+00	5.36E+01	5.36E+02	mg/kg
138	1	Mercury	1.30E+01	<1.0E-06	2.1	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
138	1	Nickel	7.04E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
138	1	PCB, Total	5.00E-01	1.7E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
138	1	Silver	1.01E+01	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
138	1	Total PAH	9.74E-02	1.1E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
138	2	Nickel	7.99E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
138	2	Silver	1.04E+01	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
180	1	Arsenic	7.48E+01	4.2E-05	0.5	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
180	1	Lead	1.99E+03									mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
180	1	Mercury	8.28E+00	<1.0E-06	1.3	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
180	1	Nickel	8.77E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
180	2	Arsenic	1.27E+01	7.1E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
180	2	Nickel	8.42E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
180	2	Total PAH	9.19E-02	1.0E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
180	3	Arsenic	1.34E+01	7.5E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
180	3	Nickel	6.77E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
180	3	Silver	1.14E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
180	4	Arsenic	1.15E+01	6.5E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
180	4	Beryllium	1.60E+00	7.9E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
180	4	Nickel	6.46E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
180	4	Silver	9.68E+00	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
180	4	Vanadium	4.85E+01	<1.0E-06	46.5	1.04E-01	1.04E+00	3.13E+00	n/a	n/a	n/a	mg/kg
181	1	Thallium	3.50E+00	<1.0E-06	0.2	2.27E+00	2.27E+01	6.80E+01	n/a	n/a	n/a	mg/kg
195	1	Nickel	7.02E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
195	1	Silver	9.37E+00	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
195	2	Silver	9.48E+00	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
195	3	Nickel	5.22E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
195	4	Nickel	6.23E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
195	5	Nickel	8.11E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
195	6	Nickel	8.71E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
195	6	Total PAH	2.48E-01	2.8E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
195	7	Silver	8.06E+00	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
195	8	Arsenic	1.16E+01	6.5E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
195	8	Beryllium	7.40E-01	3.7E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
195	8	Cobalt	1.82E+01	<1.0E-06	0.2	8.45E+00	8.45E+01	2.53E+02	n/a	n/a	n/a	mg/kg
195	8	Nickel	7.01E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
195	8	Total PAH	2.16E-01	2.4E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
195	8	Vanadium	4.04E+01	<1.0E-06	38.7	1.04E-01	1.04E+00	3.13E+00	n/a	n/a	n/a	mg/kg
195	9	Nickel	7.93E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
195	10	Nickel	7.40E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
195	10	Silver	1.31E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
195	11	Aluminum	2.81E+04	<1.0E-06	0.1	2.77E+04	2.77E+05	8.30E+05	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
195	11	Arsenic	1.35E+01	7.6E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
195	11	Barium	4.53E+02	<1.0E-06	0.1	4.15E+02	4.15E+03	1.25E+04	n/a	n/a	n/a	mg/kg
195	11	Cobalt	2.77E+01	<1.0E-06	0.3	8.45E+00	8.45E+01	2.53E+02	n/a	n/a	n/a	mg/kg
195	11	Nickel	6.77E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
195	11	Vanadium	7.97E+01	<1.0E-06	76.4	1.04E-01	1.04E+00	3.13E+00	n/a	n/a	n/a	mg/kg
195	12	Beryllium	7.50E-01	3.7E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
195	12	Nickel	6.78E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
195	13	Nickel	6.91E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
195	14	Nickel	7.04E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
195	16	Nickel	8.16E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
195	17	Nickel	5.93E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
195	17	PCB, Total	7.40E-01	2.5E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
195	17	Silver	1.01E+01	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
195	17	Total PAH	3.16E-01	3.5E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
204	1	Beryllium	1.36E+00	6.7E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
204	1	Iron	4.19E+04	<1.0E-06	0.2	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
204	1	PCB, Total	2.53E+00	8.5E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
204	1	Vanadium	7.55E+01	<1.0E-06	72.4	1.04E-01	1.04E+00	3.13E+00	n/a	n/a	n/a	mg/kg
204	4	Uranium-238	9.72E+00	1.1E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
204	18	Cesium-137	6.30E-01	1.5E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
204	23	Beryllium	1.33E+00	6.6E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
204	23	Cesium-137	1.17E+00	2.9E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
204	23	Chromium	1.75E+02	1.1E-06	<0.1	n/a	n/a	n/a	1.65E+02	1.65E+03	1.65E+04	mg/kg
204	23	PCB, Total	7.90E+01	2.6E-04	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
204	23	Uranium	1.31E+04	<1.0E-06	15.4	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
204	23	Uranium-234	4.45E+02	2.7E-06	<0.1	n/a	n/a	n/a	1.66E+02	1.66E+03	1.66E+04	pCi/g
204	23	Uranium-235	5.70E+01	3.0E-05	<0.1	n/a	n/a	n/a	1.90E+00	1.90E+01	1.90E+02	pCi/g
204	23	Uranium-238	4.39E+03	5.1E-04	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
486	1	Cesium-137	1.71E+00	4.20E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
487	1	Cesium-137	1.38E+00	3.40E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
492	1	Arsenic	1.47E+01	8.3E-06	0.1	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
492	1	Beryllium	1.04E+01	5.1E-04	0.3	2.98E+00	2.98E+01	8.94E+01	2.02E-02	2.02E-01	2.02E+00	mg/kg
492	1	Chromium	1.04E+03	6.3E-06	0.2	5.83E+02	5.83E+03	1.75E+04	1.65E+02	1.65E+03	1.65E+04	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
492	1	PCB, Total	4.41E+01	1.5E-04	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
492	1	Uranium	1.77E+03	<1.0E-06	2.1	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
492	1	Uranium-235	5.72E+00	3.0E-06	<0.1	n/a	n/a	n/a	1.90E+00	1.90E+01	1.90E+02	pCi/g
492	1	Uranium-238	3.83E+02	4.5E-05	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
492	1	Vanadium	4.32E+01	<1.0E-06	41.4	1.04E-01	1.04E+00	3.13E+00	n/a	n/a	n/a	mg/kg
493	1	Beryllium	9.91E-01	4.9E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
493	1	Cobalt	3.79E+01	<1.0E-06	0.4	8.45E+00	8.45E+01	2.53E+02	n/a	n/a	n/a	mg/kg
493	1	Manganese	3.55E+03	<1.0E-06	0.1	3.47E+03	3.47E+04	1.04E+05	n/a	n/a	n/a	mg/kg
493	1	Nickel	2.13E+02	<1.0E-06	0.7	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
493	1	Total PAH	5.00E-01	5.6E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
493	1	Vanadium	4.05E+01	<1.0E-06	38.8	1.04E-01	1.04E+00	3.13E+00	n/a	n/a	n/a	mg/kg
517	1	Beryllium	7.39E-01	3.7E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
517	1	Nickel	1.72E+02	<1.0E-06	0.6	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
517	1	PCB, Total	5.00E-01	1.7E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
541	1	Beryllium	6.98E-01	3.5E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
541	1	Cesium-137	9.58E-01	2.3E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
541	1	Chromium	8.24E+02	5.0E-06	0.1	5.83E+02	5.83E+03	1.75E+04	1.65E+02	1.65E+03	1.65E+04	mg/kg
541	1	PCB, Total	6.06E+01	2.0E-04	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
541	1	Total PAH	2.33E+00	2.6E-05	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
541	1	Uranium	6.38E+03	<1.0E-06	7.5	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
541	1	Uranium-235	1.76E+01	9.2E-06	<0.1	n/a	n/a	n/a	1.90E+00	1.90E+01	1.90E+02	pCi/g
541	1	Uranium-238	1.00E+03	1.2E-04	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
541	1	Vanadium	3.04E+01	<1.0E-06	29.2	1.04E-01	1.04E+00	3.13E+00	n/a	n/a	n/a	mg/kg
561	1	Arsenic	1.66E+01	9.3E-06	0.1	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
561	1	Beryllium	6.85E-01	3.4E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
561	1	Cobalt	1.07E+01	<1.0E-06	0.1	8.45E+00	8.45E+01	2.53E+02	n/a	n/a	n/a	mg/kg
561	1	Iron	2.05E+04	<1.0E-06	0.1	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
561	1	PCB, Total	1.04E+00	3.5E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
561	1	Total PAH	1.65E-01	1.8E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
561	1	Uranium	2.65E+02	<1.0E-06	0.3	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
561	1	Uranium-238	1.07E+02	1.2E-05	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
561	1	Vanadium	3.76E+01	<1.0E-06	36.1	1.04E-01	1.04E+00	3.13E+00	n/a	n/a	n/a	mg/kg
561	2	Antimony	5.33E+00	<1.0E-06	0.3	1.78E+00	1.78E+01	5.34E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
561	2	Arsenic	1.30E+01	7.3E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
561	2	Beryllium	6.34E-01	3.1E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
561	2	Chromium	2.88E+02	1.7E-06	<0.1	n/a	n/a	n/a	1.65E+02	1.65E+03	1.65E+04	mg/kg
561	2	Cobalt	1.14E+01	<1.0E-06	0.1	8.45E+00	8.45E+01	2.53E+02	n/a	n/a	n/a	mg/kg
561	2	PCB, Total	1.64E+01	5.5E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
561	2	Total PAH	4.43E-01	4.9E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
561	2	Uranium	1.38E+03	<1.0E-06	1.6	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
561	2	Uranium-235	7.09E+00	3.7E-06	<0.1	n/a	n/a	n/a	1.90E+00	1.90E+01	1.90E+02	pCi/g
561	2	Uranium-238	4.00E+02	4.7E-05	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
561	2	Vanadium	3.46E+01	<1.0E-06	33.1	1.04E-01	1.04E+00	3.13E+00	n/a	n/a	n/a	mg/kg
562	1	Uranium	8.73E+01	<1.0E-06	0.1	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
562	2	PCB, Total	1.58E+00	5.3E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
562	2	Uranium-235	8.96E+00	4.7E-06	<0.1	n/a	n/a	n/a	1.90E+00	1.90E+01	1.90E+02	pCi/g
562	2	Uranium-238	5.81E+02	6.8E-05	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
562	3	Total PAH	2.20E-01	2.4E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
562	3	Uranium-238	1.09E+01	1.3E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
562	5	PCB, Total	9.50E-01	3.2E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
562	5	Uranium	2.08E+02	<1.0E-06	0.2	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
562	5	Uranium-238	6.24E+01	7.3E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
563	1	Chromium	2.85E+02	1.7E-06	<0.1	n/a	n/a	n/a	1.65E+02	1.65E+03	1.65E+04	mg/kg
563	1	PCB, Total	7.40E-01	2.5E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
563	2	Cesium-137	6.47E-01	1.6E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
564	1	Arsenic	4.30E+01	2.4E-05	0.3	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
564	1	Beryllium	2.12E+00	1.0E-04	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
564	1	Cesium-137	6.20E-01	1.5E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
564	1	Iron	3.66E+04	<1.0E-06	0.2	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
564	1	PCB, Total	1.93E+00	6.5E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
564	1	Thallium	2.36E+00	<1.0E-06	0.1	2.27E+00	2.27E+01	6.80E+01	n/a	n/a	n/a	mg/kg
564	1	Vanadium	8.06E+01	<1.0E-06	77.2	1.04E-01	1.04E+00	3.13E+00	n/a	n/a	n/a	mg/kg
12	1	Arsenic	1.34E+01	7.6E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
12	1	Beryllium	6.72E+00	3.3E-04	0.2	2.98E+00	2.98E+01	8.94E+01	2.02E-02	2.02E-01	2.02E+00	mg/kg
12	1	Cobalt	9.16E+00	<1.0E-06	0.1	8.45E+00	8.45E+01	2.53E+02	n/a	n/a	n/a	mg/kg
12	1	Iron	3.01E+04	<1.0E-06	0.2	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
12	1	Mercury	8.80E+00	<1.0E-06	1.4	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
12	1	Nickel	7.74E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
12	1	PCB, Total	3.90E-01	1.3E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
12	1	Silver	1.10E+01	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
12	1	Total PAH	1.70E-01	1.9E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
12	1	Uranium	3.76E+02	<1.0E-06	0.4	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
12	1	Uranium-238	6.68E+01	7.8E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
12	1	Vanadium	2.80E+01	<1.0E-06	26.9	1.04E-01	1.04E+00	3.13E+00	n/a	n/a	n/a	mg/kg
13	1	PCB, Total	7.00E-01	2.3E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
13	5	Nickel	1.17E+02	<1.0E-06	0.4	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
13	5	PCB, Total	1.05E+00	3.5E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
13	5	Uranium	1.19E+02	<1.0E-06	0.1	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
14	1	Arsenic	1.10E+01	6.2E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
14	1	Nickel	1.40E+02	<1.0E-06	0.5	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
14	1	PCB, Total	5.00E-01	1.7E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
14	1	Silver	1.67E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
14	2	Antimony	3.70E+00	<1.0E-06	0.2	1.78E+00	1.78E+01	5.34E+01	n/a	n/a	n/a	mg/kg
14	2	Arsenic	1.45E+01	8.2E-06	0.1	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
14	2	Beryllium	7.10E-01	3.5E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
14	2	Iron	3.72E+04	<1.0E-06	0.2	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
14	2	Nickel	6.78E+02	<1.0E-06	2.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
14	2	PCB, Total	3.90E-01	1.3E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
14	2	Total PAH	3.38E-01	3.8E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
14	2	Uranium	2.93E+02	<1.0E-06	0.3	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
14	2	Uranium-235	2.00E+00	1.1E-06	<0.1	n/a	n/a	n/a	1.90E+00	1.90E+01	1.90E+02	pCi/g
14	2	Uranium-238	5.61E+01	6.6E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
14	3	Arsenic	1.30E+01	7.3E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
14	3	Iron	3.48E+04	<1.0E-06	0.2	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
14	3	Mercury	7.48E+00	<1.0E-06	1.2	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
14	3	Nickel	5.76E+02	<1.0E-06	1.9	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
14	3	PCB, Total	8.65E+00	2.9E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
14	3	Uranium	2.18E+02	<1.0E-06	0.3	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
14	4	Antimony	4.30E+00	<1.0E-06	0.2	1.78E+00	1.78E+01	5.34E+01	n/a	n/a	n/a	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	4	Arsenic	1.33E+01	7.5E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
14	4	Iron	3.88E+04	<1.0E-06	0.2	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
14	4	Neptunium-237	2.68E+00	2.1E-06	<0.1	n/a	n/a	n/a	1.30E+00	1.30E+01	1.30E+02	pCi/g
14	4	Nickel	7.31E+02	<1.0E-06	2.5	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
14	4	PCB, Total	6.61E+00	2.2E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
14	4	Silver	1.17E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
14	4	Total PAH	2.51E-01	2.8E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
14	4	Uranium	3.72E+02	<1.0E-06	0.4	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
14	4	Uranium-235	8.00E+00	4.2E-06	<0.1	n/a	n/a	n/a	1.90E+00	1.90E+01	1.90E+02	pCi/g
14	4	Uranium-238	1.69E+02	2.0E-05	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
14	5	Antimony	2.30E+00	<1.0E-06	0.1	1.78E+00	1.78E+01	5.34E+01	n/a	n/a	n/a	mg/kg
14	5	Arsenic	1.31E+01	7.4E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
14	5	Cobalt	1.40E+01	<1.0E-06	0.2	8.45E+00	8.45E+01	2.53E+02	n/a	n/a	n/a	mg/kg
14	5	Iron	3.92E+04	<1.0E-06	0.2	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
14	5	Mercury	1.09E+01	<1.0E-06	1.7	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
14	5	Neptunium-237	1.74E+00	1.3E-06	<0.1	n/a	n/a	n/a	1.30E+00	1.30E+01	1.30E+02	pCi/g
14	5	Nickel	4.61E+02	<1.0E-06	1.5	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
14	5	PCB, Total	1.00E+00	3.3E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
14	5	Silver	1.29E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
14	5	Total PAH	1.21E-01	1.3E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
14	5	Uranium	2.62E+02	<1.0E-06	0.3	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
14	5	Uranium-235	3.33E+00	1.8E-06	<0.1	n/a	n/a	n/a	1.90E+00	1.90E+01	1.90E+02	pCi/g
14	5	Uranium-238	9.42E+01	1.1E-05	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
14	6	Antimony	2.70E+00	<1.0E-06	0.2	1.78E+00	1.78E+01	5.34E+01	n/a	n/a	n/a	mg/kg
14	6	Chromium	4.46E+02	2.7E-06	<0.1	n/a	n/a	n/a	1.65E+02	1.65E+03	1.65E+04	mg/kg
14	6	Neptunium-237	2.65E+00	2.0E-06	<0.1	n/a	n/a	n/a	1.30E+00	1.30E+01	1.30E+02	pCi/g
14	6	Nickel	9.63E+02	<1.0E-06	3.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
14	6	PCB, Total	5.00E+00	1.7E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
14	6	Silver	1.19E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
14	6	Uranium	5.79E+02	<1.0E-06	0.7	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
14	6	Uranium-235	2.27E+00	1.2E-06	<0.1	n/a	n/a	n/a	1.90E+00	1.90E+01	1.90E+02	pCi/g
14	6	Uranium-238	5.08E+01	5.9E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
14	7	Arsenic	1.13E+01	6.4E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
14	7	Mercury	7.82E+00	<1.0E-06	1.3	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
14	7	Neptunium-237	1.49E+00	1.1E-06	<0.1	n/a	n/a	n/a	1.30E+00	1.30E+01	1.30E+02	pCi/g
14	7	Nickel	1.22E+03	<1.0E-06	4.1	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
14	7	PCB, Total	7.60E+00	2.5E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
14	7	Uranium	3.33E+02	<1.0E-06	0.4	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
14	7	Uranium-238	2.13E+01	2.5E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
14	8	Arsenic	1.14E+01	6.4E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
14	8	Mercury	7.90E+00	<1.0E-06	1.3	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
14	8	Nickel	6.73E+02	<1.0E-06	2.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
14	8	PCB, Total	5.00E+00	1.7E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
14	8	Silver	9.63E+00	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
14	8	Uranium	3.35E+02	<1.0E-06	0.4	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
14	9	Antimony	2.00E+00	<1.0E-06	0.1	1.78E+00	1.78E+01	5.34E+01	n/a	n/a	n/a	mg/kg
14	9	Arsenic	1.40E+01	7.9E-06	0.1	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
14	9	Cesium-137	4.53E-01	1.1E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
14	9	Mercury	1.13E+00	<1.0E-06	0.2	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
14	9	Neptunium-237	1.09E+01	8.4E-06	<0.1	n/a	n/a	n/a	1.30E+00	1.30E+01	1.30E+02	pCi/g
14	9	Nickel	9.43E+02	<1.0E-06	3.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
14	9	PCB, Total	6.84E+00	2.3E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
14	9	Total PAH	4.87E-01	5.4E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
14	9	Uranium	1.46E+03	<1.0E-06	1.7	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
14	9	Uranium-234	8.32E+02	5.0E-06	<0.1	n/a	n/a	n/a	1.66E+02	1.66E+03	1.66E+04	pCi/g
14	9	Uranium-235	5.46E+01	2.9E-05	<0.1	n/a	n/a	n/a	1.90E+00	1.90E+01	1.90E+02	pCi/g
14	9	Uranium-238	1.20E+03	1.4E-04	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
14	10	Arsenic	1.12E+01	6.3E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
14	10	Iron	2.75E+04	<1.0E-06	0.1	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
14	10	Mercury	2.51E+01	<1.0E-06	4.0	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
14	10	Neptunium-237	2.64E+00	2.0E-06	<0.1	n/a	n/a	n/a	1.30E+00	1.30E+01	1.30E+02	pCi/g
14	10	Nickel	6.00E+02	<1.0E-06	2.0	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
14	10	PCB, Total	9.38E+00	3.1E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
14	10	Total PAH	2.72E-01	3.0E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
14	10	Uranium	2.88E+02	<1.0E-06	0.3	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
14	10	Uranium-238	4.09E+01	4.8E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	1	Arsenic	1.24E+01	7.0E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
15	1	Iron	2.95E+04	<1.0E-06	0.1	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
15	1	Nickel	1.33E+02	<1.0E-06	0.4	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
15	1	Silver	1.23E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
15	1	Total PAH	1.71E+00	1.9E-05	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
15	2	Arsenic	1.63E+01	9.2E-06	0.1	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
15	2	Iron	3.89E+04	<1.0E-06	0.2	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
15	2	Mercury	9.33E+00	<1.0E-06	1.5	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
15	2	Nickel	1.97E+02	<1.0E-06	0.7	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
15	2	PCB, Total	3.30E-01	1.1E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
15	2	Total PAH	2.11E+00	2.3E-05	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
15	2	Uranium	1.32E+02	<1.0E-06	0.2	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
15	2	Uranium-238	1.21E+01	1.4E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
15	3	Antimony	2.45E+01	<1.0E-06	1.4	1.78E+00	1.78E+01	5.34E+01	n/a	n/a	n/a	mg/kg
15	3	Arsenic	2.60E+01	1.5E-05	0.2	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
15	3	Beryllium	7.60E-01	3.8E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
15	3	Cadmium	1.19E+01	2.2E-06	<0.1	n/a	n/a	n/a	5.36E+00	5.36E+01	5.36E+02	mg/kg
15	3	Cobalt	3.41E+01	<1.0E-06	0.4	8.45E+00	8.45E+01	2.53E+02	n/a	n/a	n/a	mg/kg
15	3	Copper	1.40E+03	<1.0E-06	0.1	1.13E+03	1.13E+04	3.40E+04	n/a	n/a	n/a	mg/kg
15	3	Iron	9.20E+04	<1.0E-06	0.5	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
15	3	Lead	3.79E+02									mg/kg
15	3	Mercury	2.74E+00	<1.0E-06	0.4	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
15	3	Neptunium-237	4.10E+00	3.2E-06	<0.1	n/a	n/a	n/a	1.30E+00	1.30E+01	1.30E+02	pCi/g
15	3	Nickel	7.57E+02	<1.0E-06	2.5	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
15	3	PCB, Total	6.82E+00	2.3E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
15	3	Total PAH	1.45E+00	1.6E-05	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
15	3	Uranium	2.16E+02	<1.0E-06	0.3	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
15	3	Uranium-235	4.21E+00	2.2E-06	<0.1	n/a	n/a	n/a	1.90E+00	1.90E+01	1.90E+02	pCi/g
15	3	Uranium-238	9.67E+01	1.1E-05	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
15	4	Antimony	7.40E+00	<1.0E-06	0.4	1.78E+00	1.78E+01	5.34E+01	n/a	n/a	n/a	mg/kg
15	4	Arsenic	3.47E+01	2.0E-05	0.3	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
15	4	Iron	7.81E+04	<1.0E-06	0.4	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
15	4	Lead	5.12E+02									mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	4	Mercury	1.41E+01	<1.0E-06	2.3	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
15	4	Nickel	1.37E+03	<1.0E-06	4.6	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
15	4	PCB, Total	2.67E+01	8.9E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
15	4	Silver	1.46E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
15	4	Total PAH	2.44E+00	2.7E-05	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
15	4	Uranium	1.57E+02	<1.0E-06	0.2	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
15	4	Uranium-238	1.87E+01	2.2E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
15	5	Antimony	3.10E+00	<1.0E-06	0.2	1.78E+00	1.78E+01	5.34E+01	n/a	n/a	n/a	mg/kg
15	5	Arsenic	1.28E+01	7.2E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
15	5	Copper	5.63E+03	<1.0E-06	0.5	1.13E+03	1.13E+04	3.40E+04	n/a	n/a	n/a	mg/kg
15	5	Nickel	5.10E+02	<1.0E-06	1.7	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
15	5	PCB, Total	2.51E+01	8.4E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
15	5	Silver	1.46E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
15	5	Total PAH	5.11E-01	5.7E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
15	5	Uranium	2.13E+02	<1.0E-06	0.3	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
15	5	Uranium-238	1.03E+01	1.2E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
15	6	Antimony	5.10E+00	<1.0E-06	0.3	1.78E+00	1.78E+01	5.34E+01	n/a	n/a	n/a	mg/kg
15	6	Arsenic	1.24E+01	7.0E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
15	6	Cobalt	1.62E+01	<1.0E-06	0.2	8.45E+00	8.45E+01	2.53E+02	n/a	n/a	n/a	mg/kg
15	6	Iron	3.15E+04	<1.0E-06	0.2	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
15	6	Nickel	3.24E+02	<1.0E-06	1.1	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
15	6	PCB, Total	6.17E+00	2.1E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
15	6	Silver	1.09E+01	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
15	6	Total PAH	1.62E+00	1.8E-05	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
15	6	Uranium-238	1.54E+01	1.8E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
15	7	Arsenic	1.61E+01	9.1E-06	0.1	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
15	7	Iron	3.42E+04	<1.0E-06	0.2	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
15	7	Nickel	5.59E+02	<1.0E-06	1.9	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
15	7	PCB, Total	2.57E+01	8.6E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
15	7	Silver	1.29E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
15	7	Total PAH	1.59E-01	1.8E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
15	8	Antimony	5.40E+00	<1.0E-06	0.3	1.78E+00	1.78E+01	5.34E+01	n/a	n/a	n/a	mg/kg
15	8	Arsenic	1.17E+01	6.6E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
15	8	Iron	2.83E+04	<1.0E-06	0.1	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
15	8	Mercury	1.00E+01	<1.0E-06	1.6	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
15	8	Nickel	1.82E+02	<1.0E-06	0.6	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
15	8	PCB, Total	4.90E+00	1.6E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
15	8	Silver	1.36E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
15	8	Total PAH	3.59E-01	4.0E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
15	9	Arsenic	1.10E+01	6.2E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
15	9	Iron	2.76E+04	<1.0E-06	0.1	1.98E+04	1.98E+05	5.95E+05	n/a	n/a	n/a	mg/kg
15	9	Nickel	1.49E+02	<1.0E-06	0.5	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
15	9	PCB, Total	3.30E-01	1.1E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
15	9	Silver	1.54E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
15	9	Total PAH	2.38E-01	2.7E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
15	10	Mercury	7.84E+00	<1.0E-06	1.3	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
15	10	Nickel	1.46E+02	<1.0E-06	0.5	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
15	10	Silver	1.08E+01	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
15	10	Total PAH	1.28E-01	1.4E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
16	1	Cesium-137	1.10E+00	2.7E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
16	2	Beryllium	8.40E-01	4.2E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
16	3	PCB, Total	9.49E-01	3.2E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
16	4	Cesium-137	3.66E+01	8.9E-05	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
16	4	Neptunium-237	7.12E+00	5.5E-06	<0.1	n/a	n/a	n/a	1.30E+00	1.30E+01	1.30E+02	pCi/g
16	4	PCB, Total	3.20E-01	1.1E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
16	4	Total PAH	2.93E+00	3.3E-05	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
16	4	Uranium-235	8.23E+00	4.3E-06	<0.1	n/a	n/a	n/a	1.90E+00	1.90E+01	1.90E+02	pCi/g
16	4	Uranium-238	2.70E+02	3.2E-05	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
518	1	PCB, Total	6.30E-01	2.1E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
518	1	Total PAH	4.64E+00	5.2E-05	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
518	1	Uranium	2.17E+02	<1.0E-06	0.3	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
520	1	Cesium-137	9.62E-01	2.3E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
520	1	Mercury	1.07E+01	<1.0E-06	1.7	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
520	1	Nickel	2.60E+02	<1.0E-06	0.9	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
520	1	Silver	1.30E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
520	2	Beryllium	5.79E-01	2.9E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
520	2	Mercury	1.19E+01	<1.0E-06	1.9	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
520	2	Nickel	3.11E+02	<1.0E-06	1.0	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
520	2	Total PAH	3.17E-01	3.5E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
520	3	Nickel	2.65E+02	<1.0E-06	0.9	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
520	3	Silver	1.27E+01	<1.0E-06	0.2	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
520	3	Total PAH	1.18E-01	1.3E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
520	4	Mercury	9.69E+00	<1.0E-06	1.5	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
520	4	Nickel	2.82E+02	<1.0E-06	0.9	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
520	4	Silver	1.04E+01	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
520	4	Total PAH	5.52E-01	6.1E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
520	5	Nickel	1.47E+02	<1.0E-06	0.5	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
520	5	Total PAH	3.87E-01	4.3E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
74	1	PCB, Total	2.97E+00	9.9E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
74	1	Total PAH	3.16E+00	3.5E-05	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
74	1	Uranium-238	3.85E+01	4.5E-06	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
75	1	Nickel	8.87E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
75	1	Total PAH	2.21E-01	2.5E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
78	1	Naphthalene	1.60E+01	1.3E-06	<0.1	n/a	n/a	n/a	1.22E+01	1.22E+02	1.22E+03	mg/kg
78	1	PCB, Total	1.20E+01	4.0E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
78	1	Total PAH	3.91E+01	4.4E-04	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
80	1	Beryllium	7.80E-01	3.9E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
80	1	PCB, Total	1.46E+01	4.9E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
80	1	Total PAH	1.42E-01	1.6E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
80	1	Uranium	5.72E+03	<1.0E-06	6.7	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
80	1	Uranium-234	2.29E+02	1.4E-06	<0.1	n/a	n/a	n/a	1.66E+02	1.66E+03	1.66E+04	pCi/g
80	1	Uranium-235	3.00E+01	1.6E-05	<0.1	n/a	n/a	n/a	1.90E+00	1.90E+01	1.90E+02	pCi/g
80	1	Uranium-238	1.92E+03	2.2E-04	<0.1	n/a	n/a	n/a	8.56E+00	8.56E+01	8.56E+02	pCi/g
81	1	Arsenic	1.03E+01	5.8E-06	<0.1	n/a	n/a	n/a	1.77E+00	1.77E+01	1.77E+02	mg/kg
81	1	Beryllium	7.57E-01	3.7E-05	<0.1	n/a	n/a	n/a	2.02E-02	2.02E-01	2.02E+00	mg/kg
81	1	Mercury	8.33E+00	<1.0E-06	1.3	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
81	1	Nickel	7.29E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
81	1	PCB, Total	1.60E+02	5.3E-04	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
81	1	Total PAH	5.53E-01	6.1E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.42. RGOs for the Soils OU SWMUs (Continued)

Teen Recreational User Soil Exposure

SWMU	EU	COC	EPC	ELCR	HI	RGO at HI=0.1	RGO at HI=1	RGO at HI=3	RGO at ELCR=1E-6	RGO at ELCR=1E-5	RGO at ELCR=1E-4	Units
81	1	Uranium	6.50E+03	<1.0E-06	7.7	8.49E+01	8.49E+02	2.55E+03	n/a	n/a	n/a	mg/kg
153	1	PCB, Total	5.09E-01	1.7E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
154	1	Arsenic	1.52E+01	8.6E-06	0.1	1.36E+01	1.36E+02	4.09E+02	1.77E+00	1.77E+01	1.77E+02	mg/kg
154	1	Nickel	9.89E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
154	1	PCB, Total	3.20E+00	1.1E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
154	1	Total PAH	1.04E+00	1.2E-05	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
154	2	PCB, Total	4.00E-01	1.3E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
155	1	Antimony	3.65E+00	<1.0E-06	0.2	1.78E+00	1.78E+01	5.34E+01	n/a	n/a	n/a	mg/kg
155	1	Nickel	7.65E+01	<1.0E-06	0.3	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
155	1	PCB, Total	9.20E+00	3.1E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
155	1	Silver	1.11E+01	<1.0E-06	0.1	7.45E+00	7.45E+01	2.24E+02	n/a	n/a	n/a	mg/kg
156	1	Mercury	9.87E+00	<1.0E-06	1.6	6.25E-01	6.25E+00	1.88E+01	n/a	n/a	n/a	mg/kg
156	1	Nickel	6.16E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
156	1	PCB, Total	3.00E-01	1.0E-06	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
163	1	Total PAH	1.63E-01	1.8E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg
219	1	Nickel	6.71E+01	<1.0E-06	0.2	2.98E+01	2.98E+02	8.93E+02	n/a	n/a	n/a	mg/kg
488	1	Cesium-137	5.20E-01	1.3E-06	<0.1	n/a	n/a	n/a	4.10E-01	4.10E+00	4.10E+01	pCi/g
488	1	PCB, Total	1.03E+01	3.4E-05	<0.1	n/a	n/a	n/a	2.99E-01	2.99E+00	2.99E+01	mg/kg
488	1	Total PAH	2.50E-01	2.8E-06	<0.1	n/a	n/a	n/a	8.99E-02	8.99E-01	8.99E+00	mg/kg

SWMU = solid waste management unit
EU = exposure unit
COPC = chemical of potential concern
EPC = exposure point concentration
ELCR = excess lifetime cancer risk
HI = hazard index
RGO = remedial goal option

Table D.43. Dose RGOs for the Soils OU SWMUs

Industrial Worker Exposure to Surface Soil

SWMU	EU	COC	EPC	RGO at 1 mrem/yr	RGO at 15 mrem/yr	RGO at 25 mrem/yr	Units
212	1	Neptunium-237	4.00E+00	3.90E+00	n/a	n/a	pCi/g
212	1	Thorium-230	2.60E+02	1.40E+02	n/a	n/a	pCi/g
226	1	Cesium-137	2.65E+00	1.60E+00	n/a	n/a	pCi/g
226	1	Neptunium-237	1.60E+02	3.90E+00	5.85E+01	9.75E+01	pCi/g
227	1	Uranium-238	4.63E+01	2.77E+01	n/a	n/a	pCi/g
26	1	Cesium-137	3.16E+00	1.60E+00	n/a	n/a	pCi/g
26	1	Uranium-238	3.47E+01	2.77E+01	n/a	n/a	pCi/g
26	2	Cesium-137	5.92E+00	1.60E+00	n/a	n/a	pCi/g
26	2	Uranium-238	5.14E+01	2.77E+01	n/a	n/a	pCi/g
26	3	Uranium-238	5.19E+01	2.77E+01	n/a	n/a	pCi/g
26	4	Neptunium-237	1.36E+01	3.90E+00	n/a	n/a	pCi/g
26	4	Uranium-235	1.08E+01	7.06E+00	n/a	n/a	pCi/g
26	4	Uranium-238	3.66E+02	2.77E+01	n/a	n/a	pCi/g
165	1	Cesium-137	3.47E+00	1.60E+00	n/a	n/a	pCi/g
165	1	Uranium-238	6.41E+01	2.77E+01	n/a	n/a	pCi/g
204	23	Uranium-234	4.45E+02	2.75E+02	n/a	n/a	pCi/g
204	23	Uranium-235	5.70E+01	7.06E+00	n/a	n/a	pCi/g
204	23	Uranium-238	4.39E+03	2.77E+01	4.16E+02	6.93E+02	pCi/g
486	1	Cesium-137	1.71E+00	1.60E+00	n/a	n/a	pCi/g
492	1	Uranium-238	3.83E+02	2.77E+01	n/a	n/a	pCi/g
541	1	Uranium-235	1.76E+01	7.06E+00	n/a	n/a	pCi/g
541	1	Uranium-238	1.00E+03	2.77E+01	4.16E+02	6.93E+02	pCi/g
561	1	Uranium-238	1.07E+02	2.77E+01	n/a	n/a	pCi/g
561	2	Uranium-235	7.09E+00	7.06E+00	n/a	n/a	pCi/g
561	2	Uranium-238	4.00E+02	2.77E+01	n/a	n/a	pCi/g
562	2	Uranium-235	8.96E+00	7.06E+00	n/a	n/a	pCi/g
562	2	Uranium-238	5.81E+02	2.77E+01	4.16E+02	n/a	pCi/g
562	5	Uranium-238	6.24E+01	2.77E+01	n/a	n/a	pCi/g
12	1	Uranium-238	6.68E+01	2.77E+01	n/a	n/a	pCi/g
14	2	Uranium-238	5.61E+01	2.77E+01	n/a	n/a	pCi/g
14	4	Uranium-235	8.00E+00	7.06E+00	n/a	n/a	pCi/g
14	4	Uranium-238	1.69E+02	2.77E+01	n/a	n/a	pCi/g
14	5	Uranium-238	9.42E+01	2.77E+01	n/a	n/a	pCi/g
14	6	Uranium-238	5.08E+01	2.77E+01	n/a	n/a	pCi/g
14	9	Neptunium-237	1.09E+01	3.90E+00	n/a	n/a	pCi/g
14	9	Uranium-234	8.32E+02	2.75E+02	n/a	n/a	pCi/g
14	9	Uranium-235	5.46E+01	7.06E+00	n/a	n/a	pCi/g
14	9	Uranium-238	1.20E+03	2.77E+01	4.16E+02	6.93E+02	pCi/g
14	10	Uranium-238	4.09E+01	2.77E+01	n/a	n/a	pCi/g
15	3	Neptunium-237	4.10E+00	3.90E+00	n/a	n/a	pCi/g
15	3	Uranium-238	9.67E+01	2.77E+01	n/a	n/a	pCi/g
16	4	Cesium-137	3.66E+01	1.60E+00	2.40E+01	n/a	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
RGO = remedial goal option
n/a = not applicable, EPC > RGO

Table D.43. Dose RGOs for the Soils OU SWMUs (Continued)

Industrial Worker Exposure to Surface Soil

SWMU	EU	COC	EPC	RGO at 1 mrem/yr	RGO at 15 mrem/yr	RGO at 25 mrem/yr	Units
16	4	Neptunium-237	7.12E+00	3.90E+00	n/a	n/a	pCi/g
16	4	Uranium-235	8.23E+00	7.06E+00	n/a	n/a	pCi/g
16	4	Uranium-238	2.70E+02	2.77E+01	n/a	n/a	pCi/g
74	1	Uranium-238	3.85E+01	2.77E+01	n/a	n/a	pCi/g
80	1	Uranium-235	3.00E+01	7.06E+00	n/a	n/a	pCi/g
80	1	Uranium-238	1.92E+03	2.77E+01	4.16E+02	6.93E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
RGO = remedial goal option
n/a = not applicable, EPC > RGO

Table D.43. Dose RGOs for the Soils OU SWMUs (Continued)

Outdoor Worker Exposure to Surface Soil

SWMU	EU	COC	EPC	RGO at 1 mrem/yr	RGO at 15 mrem/yr	RGO at 25 mrem/yr	Units
1	1	Plutonium-239/240	6.14E+00	3.18E+00	n/a	n/a	pCi/g
1	1	Thorium-230	4.40E+01	2.05E+01	n/a	n/a	pCi/g
47	1	Plutonium-239/240	4.11E+00	3.18E+00	n/a	n/a	pCi/g
47	1	Thorium-230	4.11E+01	2.05E+01	n/a	n/a	pCi/g
212	1	Neptunium-237	4.00E+00	1.84E+00	n/a	n/a	pCi/g
212	1	Plutonium-239/240	6.71E+00	3.18E+00	n/a	n/a	pCi/g
212	1	Thorium-230	2.60E+02	2.05E+01	n/a	n/a	pCi/g
224	1	Uranium-238	2.64E+01	2.20E+01	n/a	n/a	pCi/g
226	1	Cesium-137	2.65E+00	2.15E+00	n/a	n/a	pCi/g
226	1	Neptunium-237	1.60E+02	1.84E+00	2.76E+01	4.60E+01	pCi/g
226	1	Plutonium-239/240	6.52E+00	3.18E+00	n/a	n/a	pCi/g
226	1	Thorium-230	4.77E+01	2.05E+01	n/a	n/a	pCi/g
226	1	Uranium-238	2.40E+01	2.20E+01	n/a	n/a	pCi/g
227	1	Uranium-238	4.63E+01	2.20E+01	n/a	n/a	pCi/g
229	2	Uranium-238	2.49E+01	2.20E+01	n/a	n/a	pCi/g
26	1	Cesium-137	3.16E+00	2.15E+00	n/a	n/a	pCi/g
26	1	Plutonium-239/240	4.04E+00	3.18E+00	n/a	n/a	pCi/g
26	1	Uranium-238	3.47E+01	2.20E+01	n/a	n/a	pCi/g
26	2	Cesium-137	5.92E+00	2.15E+00	n/a	n/a	pCi/g
26	2	Uranium-238	5.14E+01	2.20E+01	n/a	n/a	pCi/g
26	3	Uranium-234	4.63E+01	3.97E+01	n/a	n/a	pCi/g
26	3	Uranium-238	5.19E+01	2.20E+01	n/a	n/a	pCi/g
26	4	Neptunium-237	1.36E+01	1.84E+00	n/a	n/a	pCi/g
26	4	Plutonium-239/240	5.00E+00	3.18E+00	n/a	n/a	pCi/g
26	4	Thorium-230	3.26E+01	2.05E+01	n/a	n/a	pCi/g
26	4	Uranium-234	1.54E+02	3.97E+01	n/a	n/a	pCi/g
26	4	Uranium-235	1.08E+01	7.93E+00	n/a	n/a	pCi/g
26	4	Uranium-238	3.66E+02	2.20E+01	3.30E+02	n/a	pCi/g
165	1	Cesium-137	3.47E+00	2.15E+00	n/a	n/a	pCi/g
165	1	Uranium-234	5.76E+01	3.97E+01	n/a	n/a	pCi/g
165	1	Uranium-238	6.41E+01	2.20E+01	n/a	n/a	pCi/g
204	23	Americium-241	3.71E+00	3.04E+00	n/a	n/a	pCi/g
204	23	Uranium-234	4.45E+02	3.97E+01	n/a	n/a	pCi/g
204	23	Uranium-235	5.70E+01	7.93E+00	n/a	n/a	pCi/g
204	23	Uranium-238	4.39E+03	2.20E+01	3.30E+02	5.50E+02	pCi/g
492	1	Uranium-234	5.39E+01	3.97E+01	n/a	n/a	pCi/g
492	1	Uranium-238	3.83E+02	2.20E+01	3.30E+02	n/a	pCi/g
541	1	Americium-241	7.53E+00	3.04E+00	n/a	n/a	pCi/g
541	1	Uranium-234	1.43E+02	3.97E+01	n/a	n/a	pCi/g
541	1	Uranium-235	1.76E+01	7.93E+00	n/a	n/a	pCi/g
541	1	Uranium-238	1.00E+03	2.20E+01	3.30E+02	5.50E+02	pCi/g
561	1	Uranium-238	1.07E+02	2.20E+01	n/a	n/a	pCi/g
561	2	Uranium-234	4.06E+01	3.97E+01	n/a	n/a	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
RGO = remedial goal option
n/a = not applicable, EPC > RGO

Outdoor Worker Exposure to Surface Soil

SWMU	EU	COC	EPC	RGO at 1 mrem/yr	RGO at 15 mrem/yr	RGO at 25 mrem/yr	Units
561	2	Uranium-238	4.00E+02	2.20E+01	3.30E+02	n/a	pCi/g
562	2	Uranium-234	5.34E+01	3.97E+01	n/a	n/a	pCi/g
562	2	Uranium-235	8.96E+00	7.93E+00	n/a	n/a	pCi/g
562	2	Uranium-238	5.81E+02	2.20E+01	3.30E+02	5.50E+02	pCi/g
562	5	Uranium-238	6.24E+01	2.20E+01	n/a	n/a	pCi/g
12	1	Uranium-238	6.68E+01	2.20E+01	n/a	n/a	pCi/g
14	2	Uranium-238	5.61E+01	2.20E+01	n/a	n/a	pCi/g
14	4	Neptunium-237	2.68E+00	1.84E+00	n/a	n/a	pCi/g
14	4	Uranium-234	1.13E+02	3.97E+01	n/a	n/a	pCi/g
14	4	Uranium-235	8.00E+00	7.93E+00	n/a	n/a	pCi/g
14	4	Uranium-238	1.69E+02	2.20E+01	n/a	n/a	pCi/g
14	5	Uranium-234	5.22E+01	3.97E+01	n/a	n/a	pCi/g
14	5	Uranium-238	9.42E+01	2.20E+01	n/a	n/a	pCi/g
14	6	Neptunium-237	2.65E+00	1.84E+00	n/a	n/a	pCi/g
14	6	Uranium-238	5.08E+01	2.20E+01	n/a	n/a	pCi/g
14	9	Neptunium-237	1.09E+01	1.84E+00	n/a	n/a	pCi/g
14	9	Uranium-234	8.32E+02	3.97E+01	5.96E+02	n/a	pCi/g
14	9	Uranium-235	5.46E+01	7.93E+00	n/a	n/a	pCi/g
14	9	Uranium-238	1.20E+03	2.20E+01	3.30E+02	5.50E+02	pCi/g
14	10	Neptunium-237	2.64E+00	1.84E+00	n/a	n/a	pCi/g
14	10	Uranium-238	4.09E+01	2.20E+01	n/a	n/a	pCi/g
15	3	Neptunium-237	4.10E+00	1.84E+00	n/a	n/a	pCi/g
15	3	Uranium-234	6.96E+01	3.97E+01	n/a	n/a	pCi/g
15	3	Uranium-238	9.67E+01	2.20E+01	n/a	n/a	pCi/g
16	4	Cesium-137	3.66E+01	2.15E+00	3.23E+01	n/a	pCi/g
16	4	Neptunium-237	7.12E+00	1.84E+00	n/a	n/a	pCi/g
16	4	Uranium-234	1.19E+02	3.97E+01	n/a	n/a	pCi/g
16	4	Uranium-235	8.23E+00	7.93E+00	n/a	n/a	pCi/g
16	4	Uranium-238	2.70E+02	2.20E+01	n/a	n/a	pCi/g
74	1	Uranium-238	3.85E+01	2.20E+01	n/a	n/a	pCi/g
80	1	Americium-241	6.40E+00	3.04E+00	n/a	n/a	pCi/g
80	1	Uranium-234	2.29E+02	3.97E+01	n/a	n/a	pCi/g
80	1	Uranium-235	3.00E+01	7.93E+00	n/a	n/a	pCi/g
80	1	Uranium-238	1.92E+03	2.20E+01	3.30E+02	5.50E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
RGO = remedial goal option
n/a = not applicable, EPC > RGO

Excavation Worker/Outdoor Worker Exposure to Subsurface Soil

SWMU	EU	COC	EPC	RGO at 1 mrem/yr	RGO at 15 mrem/yr	RGO at 25 mrem/yr	Units
1	1	Plutonium-239/240	6.14E+00	3.18E+00	n/a	n/a	pCi/g
1	1	Thorium-230	4.40E+01	2.05E+01	n/a	n/a	pCi/g
47	1	Plutonium-239/240	4.19E+00	3.18E+00	n/a	n/a	pCi/g
47	1	Thorium-230	5.45E+01	2.05E+01	n/a	n/a	pCi/g
212	1	Neptunium-237	4.00E+00	1.84E+00	n/a	n/a	pCi/g
212	1	Plutonium-239/240	6.71E+00	3.18E+00	n/a	n/a	pCi/g
212	1	Thorium-230	2.60E+02	2.05E+01	n/a	n/a	pCi/g
224	1	Uranium-238	2.64E+01	2.20E+01	n/a	n/a	pCi/g
226	1	Cesium-137	2.33E+00	2.15E+00	n/a	n/a	pCi/g
226	1	Neptunium-237	1.41E+02	1.84E+00	2.76E+01	4.60E+01	pCi/g
226	1	Plutonium-239/240	5.75E+00	3.18E+00	n/a	n/a	pCi/g
226	1	Thorium-230	4.21E+01	2.05E+01	n/a	n/a	pCi/g
226	1	Uranium-238	2.48E+01	2.20E+01	n/a	n/a	pCi/g
227	1	Uranium-238	4.18E+01	2.20E+01	n/a	n/a	pCi/g
229	2	Uranium-238	2.49E+01	2.20E+01	n/a	n/a	pCi/g
26	1	Plutonium-239/240	3.50E+00	3.18E+00	n/a	n/a	pCi/g
26	1	Uranium-238	3.14E+01	2.20E+01	n/a	n/a	pCi/g
26	2	Cesium-137	4.86E+00	2.15E+00	n/a	n/a	pCi/g
26	2	Uranium-238	4.22E+01	2.20E+01	n/a	n/a	pCi/g
26	3	Uranium-234	4.05E+01	3.97E+01	n/a	n/a	pCi/g
26	3	Uranium-238	4.53E+01	2.20E+01	n/a	n/a	pCi/g
26	4	Neptunium-237	1.20E+01	1.84E+00	n/a	n/a	pCi/g
26	4	Plutonium-239/240	4.40E+00	3.18E+00	n/a	n/a	pCi/g
26	4	Thorium-230	2.84E+01	2.05E+01	n/a	n/a	pCi/g
26	4	Uranium-234	1.13E+02	3.97E+01	n/a	n/a	pCi/g
26	4	Uranium-238	3.27E+02	2.20E+01	n/a	n/a	pCi/g
165	1	Cesium-137	3.47E+00	2.15E+00	n/a	n/a	pCi/g
165	1	Uranium-234	5.76E+01	3.97E+01	n/a	n/a	pCi/g
165	1	Uranium-238	6.42E+01	2.20E+01	n/a	n/a	pCi/g
19	1	Uranium-238	3.06E+01	2.20E+01	n/a	n/a	pCi/g
204	23	Americium-241	3.71E+00	3.04E+00	n/a	n/a	pCi/g
204	23	Uranium-234	4.45E+02	3.97E+01	n/a	n/a	pCi/g
204	23	Uranium-235	5.70E+01	7.93E+00	n/a	n/a	pCi/g
204	23	Uranium-238	4.39E+03	2.20E+01	3.30E+02	5.50E+02	pCi/g
492	1	Uranium-234	5.39E+01	3.97E+01	n/a	n/a	pCi/g
492	1	Uranium-238	3.83E+02	2.20E+01	3.30E+02	n/a	pCi/g
541	1	Americium-241	7.53E+00	3.04E+00	n/a	n/a	pCi/g
541	1	Uranium-234	1.44E+02	3.97E+01	n/a	n/a	pCi/g
541	1	Uranium-235	2.26E+01	7.93E+00	n/a	n/a	pCi/g
541	1	Uranium-238	1.11E+03	2.20E+01	3.30E+02	5.50E+02	pCi/g
561	1	Uranium-238	1.12E+02	2.20E+01	n/a	n/a	pCi/g
561	2	Uranium-238	3.86E+02	2.20E+01	3.30E+02	n/a	pCi/g
562	1	Uranium-238	4.42E+01	2.20E+01	n/a	n/a	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
RGO = remedial goal option
n/a = not applicable, EPC > RGO

Excavation Worker/Outdoor Worker Exposure to Subsurface Soil

SWMU	EU	COC	EPC	RGO at 1 mrem/yr	RGO at 15 mrem/yr	RGO at 25 mrem/yr	Units
562	2	Uranium-234	5.34E+01	3.97E+01	n/a	n/a	pCi/g
562	2	Uranium-235	8.96E+00	7.93E+00	n/a	n/a	pCi/g
562	2	Uranium-238	5.81E+02	2.20E+01	3.30E+02	5.50E+02	pCi/g
562	5	Uranium-238	6.24E+01	2.20E+01	n/a	n/a	pCi/g
12	1	Uranium-238	4.28E+01	2.20E+01	n/a	n/a	pCi/g
14	2	Uranium-234	4.81E+01	3.97E+01	n/a	n/a	pCi/g
14	2	Uranium-238	8.96E+01	2.20E+01	n/a	n/a	pCi/g
14	4	Neptunium-237	2.03E+00	1.84E+00	n/a	n/a	pCi/g
14	4	Uranium-234	8.61E+01	3.97E+01	n/a	n/a	pCi/g
14	4	Uranium-238	1.29E+02	2.20E+01	n/a	n/a	pCi/g
14	5	Uranium-234	4.03E+01	3.97E+01	n/a	n/a	pCi/g
14	5	Uranium-238	7.26E+01	2.20E+01	n/a	n/a	pCi/g
14	6	Neptunium-237	2.04E+00	1.84E+00	n/a	n/a	pCi/g
14	6	Uranium-238	4.11E+01	2.20E+01	n/a	n/a	pCi/g
14	9	Neptunium-237	1.09E+01	1.84E+00	n/a	n/a	pCi/g
14	9	Uranium-234	8.32E+02	3.97E+01	5.96E+02	n/a	pCi/g
14	9	Uranium-235	5.46E+01	7.93E+00	n/a	n/a	pCi/g
14	9	Uranium-238	1.20E+03	2.20E+01	3.30E+02	5.50E+02	pCi/g
14	10	Neptunium-237	2.05E+00	1.84E+00	n/a	n/a	pCi/g
14	10	Uranium-238	2.68E+01	2.20E+01	n/a	n/a	pCi/g
15	3	Neptunium-237	4.06E+00	1.84E+00	n/a	n/a	pCi/g
15	3	Uranium-234	6.91E+01	3.97E+01	n/a	n/a	pCi/g
15	3	Uranium-238	9.57E+01	2.20E+01	n/a	n/a	pCi/g
16	4	Cesium-137	3.66E+01	2.15E+00	3.23E+01	n/a	pCi/g
16	4	Neptunium-237	7.12E+00	1.84E+00	n/a	n/a	pCi/g
16	4	Uranium-234	1.19E+02	3.97E+01	n/a	n/a	pCi/g
16	4	Uranium-235	8.23E+00	7.93E+00	n/a	n/a	pCi/g
16	4	Uranium-238	2.70E+02	2.20E+01	n/a	n/a	pCi/g
74	1	Uranium-238	3.85E+01	2.20E+01	n/a	n/a	pCi/g
80	1	Americium-241	6.40E+00	3.04E+00	n/a	n/a	pCi/g
80	1	Uranium-234	2.29E+02	3.97E+01	n/a	n/a	pCi/g
80	1	Uranium-235	3.00E+01	7.93E+00	n/a	n/a	pCi/g
80	1	Uranium-238	1.92E+03	2.20E+01	3.30E+02	5.50E+02	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
RGO = remedial goal option
n/a = not applicable, EPC > RGO

Adult Resident Exposure to Surface Soil

SWMU	EU	COC	EPC	RGO at 1 mrem/yr	RGO at 15 mrem/yr	RGO at 25 mrem/yr	Units
1	1	Cesium-137	5.91E-01	3.82E-01	n/a	n/a	pCi/g
194	10	Cesium-137	5.81E-01	3.82E-01	n/a	n/a	pCi/g
194	31	Cesium-137	5.70E-01	3.82E-01	n/a	n/a	pCi/g
200	1	Cesium-137	5.74E-01	3.82E-01	n/a	n/a	pCi/g
212	1	Cesium-137	6.01E-01	3.82E-01	n/a	n/a	pCi/g
212	1	Neptunium-237	4.00E+00	1.00E+00	n/a	n/a	pCi/g
212	1	Thorium-230	2.60E+02	4.96E+01	n/a	n/a	pCi/g
222	1	Uranium-238	1.96E+01	8.10E+00	n/a	n/a	pCi/g
224	1	Uranium-238	2.64E+01	8.10E+00	n/a	n/a	pCi/g
226	1	Cesium-137	2.65E+00	3.82E-01	n/a	n/a	pCi/g
226	1	Neptunium-237	1.60E+02	1.00E+00	1.50E+01	2.50E+01	pCi/g
226	1	Uranium-238	2.40E+01	8.10E+00	n/a	n/a	pCi/g
227	1	Uranium-238	4.63E+01	8.10E+00	n/a	n/a	pCi/g
229	2	Uranium-238	2.49E+01	8.10E+00	n/a	n/a	pCi/g
26	1	Cesium-137	3.16E+00	3.82E-01	n/a	n/a	pCi/g
26	1	Uranium-238	3.47E+01	8.10E+00	n/a	n/a	pCi/g
26	2	Cesium-137	5.92E+00	3.82E-01	5.73E+00	n/a	pCi/g
26	2	Uranium-235	1.71E+00	1.69E+00	n/a	n/a	pCi/g
26	2	Uranium-238	5.14E+01	8.10E+00	n/a	n/a	pCi/g
26	3	Cesium-137	7.48E-01	3.82E-01	n/a	n/a	pCi/g
26	3	Uranium-235	1.69E+00	1.69E+00	n/a	n/a	pCi/g
26	3	Uranium-238	5.19E+01	8.10E+00	n/a	n/a	pCi/g
26	4	Cesium-137	6.38E-01	3.82E-01	n/a	n/a	pCi/g
26	4	Neptunium-237	1.36E+01	1.00E+00	n/a	n/a	pCi/g
26	4	Uranium-234	1.54E+02	9.76E+01	n/a	n/a	pCi/g
26	4	Uranium-235	1.08E+01	1.69E+00	n/a	n/a	pCi/g
26	4	Uranium-238	3.66E+02	8.10E+00	1.22E+02	2.03E+02	pCi/g
165	1	Cesium-137	3.47E+00	3.82E-01	n/a	n/a	pCi/g
165	1	Uranium-235	2.05E+00	1.69E+00	n/a	n/a	pCi/g
165	1	Uranium-238	6.41E+01	8.10E+00	n/a	n/a	pCi/g
169	1	Uranium-238	8.12E+00	8.10E+00	n/a	n/a	pCi/g
204	4	Uranium-238	9.72E+00	8.10E+00	n/a	n/a	pCi/g
204	18	Cesium-137	6.30E-01	3.82E-01	n/a	n/a	pCi/g
204	23	Cesium-137	1.17E+00	3.82E-01	n/a	n/a	pCi/g
204	23	Uranium-234	4.45E+02	9.76E+01	n/a	n/a	pCi/g
204	23	Uranium-235	5.70E+01	1.69E+00	2.54E+01	4.23E+01	pCi/g
204	23	Uranium-238	4.39E+03	8.10E+00	1.22E+02	2.03E+02	pCi/g
486	1	Cesium-137	1.71E+00	3.82E-01	n/a	n/a	pCi/g
487	1	Cesium-137	1.38E+00	3.82E-01	n/a	n/a	pCi/g
492	1	Uranium-235	5.72E+00	1.69E+00	n/a	n/a	pCi/g
492	1	Uranium-238	3.83E+02	8.10E+00	1.22E+02	2.03E+02	pCi/g
517	1	Neptunium-237	1.07E+00	1.00E+00	n/a	n/a	pCi/g
541	1	Americium-241	7.53E+00	6.21E+00	n/a	n/a	pCi/g

SWMU = solid waste management unit
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EPC = exposure point concentration
RGO = remedial goal option
n/a = not applicable, EPC > RGO

Adult Resident Exposure to Surface Soil

SWMU	EU	COC	EPC	RGO at 1 mrem/yr	RGO at 15 mrem/yr	RGO at 25 mrem/yr	Units
541	1	Cesium-137	9.58E-01	3.82E-01	n/a	n/a	pCi/g
541	1	Uranium-234	1.43E+02	9.76E+01	n/a	n/a	pCi/g
541	1	Uranium-235	1.76E+01	1.69E+00	n/a	n/a	pCi/g
541	1	Uranium-238	1.00E+03	8.10E+00	1.22E+02	2.03E+02	pCi/g
561	1	Uranium-238	1.07E+02	8.10E+00	n/a	n/a	pCi/g
561	2	Cesium-137	4.09E-01	3.82E-01	n/a	n/a	pCi/g
561	2	Uranium-235	7.09E+00	1.69E+00	n/a	n/a	pCi/g
561	2	Uranium-238	4.00E+02	8.10E+00	1.22E+02	2.03E+02	pCi/g
562	2	Uranium-235	8.96E+00	1.69E+00	n/a	n/a	pCi/g
562	2	Uranium-238	5.81E+02	8.10E+00	1.22E+02	2.03E+02	pCi/g
562	3	Uranium-238	1.09E+01	8.10E+00	n/a	n/a	pCi/g
562	5	Uranium-238	6.24E+01	8.10E+00	n/a	n/a	pCi/g
563	2	Cesium-137	6.47E-01	3.82E-01	n/a	n/a	pCi/g
564	1	Cesium-137	6.20E-01	3.82E-01	n/a	n/a	pCi/g
564	1	Uranium-238	8.33E+00	8.10E+00	n/a	n/a	pCi/g
12	1	Uranium-238	6.68E+01	8.10E+00	n/a	n/a	pCi/g
14	2	Uranium-235	2.00E+00	1.69E+00	n/a	n/a	pCi/g
14	2	Uranium-238	5.61E+01	8.10E+00	n/a	n/a	pCi/g
14	4	Neptunium-237	2.68E+00	1.00E+00	n/a	n/a	pCi/g
14	4	Uranium-234	1.13E+02	9.76E+01	n/a	n/a	pCi/g
14	4	Uranium-235	8.00E+00	1.69E+00	n/a	n/a	pCi/g
14	4	Uranium-238	1.69E+02	8.10E+00	1.22E+02	n/a	pCi/g
14	5	Neptunium-237	1.74E+00	1.00E+00	n/a	n/a	pCi/g
14	5	Uranium-235	3.33E+00	1.69E+00	n/a	n/a	pCi/g
14	5	Uranium-238	9.42E+01	8.10E+00	n/a	n/a	pCi/g
14	6	Neptunium-237	2.65E+00	1.00E+00	n/a	n/a	pCi/g
14	6	Uranium-235	2.27E+00	1.69E+00	n/a	n/a	pCi/g
14	6	Uranium-238	5.08E+01	8.10E+00	n/a	n/a	pCi/g
14	7	Neptunium-237	1.49E+00	1.00E+00	n/a	n/a	pCi/g
14	7	Uranium-238	2.13E+01	8.10E+00	n/a	n/a	pCi/g
14	9	Cesium-137	4.53E-01	3.82E-01	n/a	n/a	pCi/g
14	9	Neptunium-237	1.09E+01	1.00E+00	n/a	n/a	pCi/g
14	9	Uranium-234	8.32E+02	9.76E+01	n/a	n/a	pCi/g
14	9	Uranium-235	5.46E+01	1.69E+00	2.54E+01	4.23E+01	pCi/g
14	9	Uranium-238	1.20E+03	8.10E+00	1.22E+02	2.03E+02	pCi/g
14	10	Neptunium-237	2.64E+00	1.00E+00	n/a	n/a	pCi/g
14	10	Uranium-235	1.76E+00	1.69E+00	n/a	n/a	pCi/g
14	10	Uranium-238	4.09E+01	8.10E+00	n/a	n/a	pCi/g
15	2	Uranium-238	1.21E+01	8.10E+00	n/a	n/a	pCi/g
15	3	Neptunium-237	4.10E+00	1.00E+00	n/a	n/a	pCi/g
15	3	Uranium-235	4.21E+00	1.69E+00	n/a	n/a	pCi/g
15	3	Uranium-238	9.67E+01	8.10E+00	n/a	n/a	pCi/g
15	4	Uranium-238	1.87E+01	8.10E+00	n/a	n/a	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
RGO = remedial goal option
n/a = not applicable, EPC > RGO

Table D.43. Dose RGOs for the Soils OU SWMUs (Continued)

Adult Resident Exposure to Surface Soil

SWMU	EU	COC	EPC	RGO at 1 mrem/yr	RGO at 15 mrem/yr	RGO at 25 mrem/yr	Units
15	5	Uranium-238	1.03E+01	8.10E+00	n/a	n/a	pCi/g
15	6	Uranium-238	1.54E+01	8.10E+00	n/a	n/a	pCi/g
16	1	Cesium-137	1.10E+00	3.82E-01	n/a	n/a	pCi/g
16	4	Cesium-137	3.66E+01	3.82E-01	5.73E+00	9.55E+00	pCi/g
16	4	Neptunium-237	7.12E+00	1.00E+00	n/a	n/a	pCi/g
16	4	Uranium-234	1.19E+02	9.76E+01	n/a	n/a	pCi/g
16	4	Uranium-235	8.23E+00	1.69E+00	n/a	n/a	pCi/g
16	4	Uranium-238	2.70E+02	8.10E+00	1.22E+02	2.03E+02	pCi/g
520	1	Cesium-137	9.62E-01	3.82E-01	n/a	n/a	pCi/g
74	1	Uranium-238	3.85E+01	8.10E+00	n/a	n/a	pCi/g
80	1	Americium-241	6.40E+00	6.21E+00	n/a	n/a	pCi/g
80	1	Uranium-234	2.29E+02	9.76E+01	n/a	n/a	pCi/g
80	1	Uranium-235	3.00E+01	1.69E+00	2.54E+01	n/a	pCi/g
80	1	Uranium-238	1.92E+03	8.10E+00	1.22E+02	2.03E+02	pCi/g
488	1	Cesium-137	5.20E-01	3.82E-01	n/a	n/a	pCi/g

SWMU = solid waste management unit
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COC = contaminant of concern
EPC = exposure point concentration
RGO = remedial goal option
n/a = not applicable, EPC > RGO

Child Resident Exposure to Surface Soil

SWMU	EU	COC	EPC	RGO at 1 mrem/yr	RGO at 15 mrem/yr	RGO at 25 mrem/yr	Units
1	1	Cesium-137	5.91E-01	3.82E-01	n/a	n/a	pCi/g
1	1	Plutonium-239/240	6.14E+00	4.03E+00	n/a	n/a	pCi/g
1	1	Thorium-230	4.40E+01	2.54E+01	n/a	n/a	pCi/g
194	10	Cesium-137	5.81E-01	3.82E-01	n/a	n/a	pCi/g
194	31	Cesium-137	5.70E-01	3.82E-01	n/a	n/a	pCi/g
47	1	Plutonium-239/240	4.11E+00	4.03E+00	n/a	n/a	pCi/g
47	1	Thorium-230	4.11E+01	2.54E+01	n/a	n/a	pCi/g
47	1	Uranium-238	7.93E+00	7.50E+00	n/a	n/a	pCi/g
200	1	Cesium-137	5.74E-01	3.82E-01	n/a	n/a	pCi/g
212	1	Cesium-137	6.01E-01	3.82E-01	n/a	n/a	pCi/g
212	1	Neptunium-237	4.00E+00	8.66E-01	n/a	n/a	pCi/g
212	1	Plutonium-239/240	6.71E+00	4.03E+00	n/a	n/a	pCi/g
212	1	Thorium-230	2.60E+02	2.54E+01	n/a	n/a	pCi/g
222	1	Uranium-238	1.96E+01	7.50E+00	n/a	n/a	pCi/g
224	1	Uranium-238	2.64E+01	7.50E+00	n/a	n/a	pCi/g
226	1	Cesium-137	2.65E+00	3.82E-01	n/a	n/a	pCi/g
226	1	Neptunium-237	1.60E+02	8.66E-01	1.30E+01	2.17E+01	pCi/g
226	1	Plutonium-239/240	6.52E+00	4.03E+00	n/a	n/a	pCi/g
226	1	Thorium-230	4.77E+01	2.54E+01	n/a	n/a	pCi/g
226	1	Uranium-238	2.40E+01	7.50E+00	n/a	n/a	pCi/g
227	1	Neptunium-237	9.05E-01	8.66E-01	n/a	n/a	pCi/g
227	1	Uranium-238	4.63E+01	7.50E+00	n/a	n/a	pCi/g
229	2	Uranium-238	2.49E+01	7.50E+00	n/a	n/a	pCi/g
26	1	Cesium-137	3.16E+00	3.82E-01	n/a	n/a	pCi/g
26	1	Plutonium-239/240	4.04E+00	4.03E+00	n/a	n/a	pCi/g
26	1	Uranium-238	3.47E+01	7.50E+00	n/a	n/a	pCi/g
26	2	Cesium-137	5.92E+00	3.82E-01	5.73E+00	n/a	pCi/g
26	2	Uranium-235	1.71E+00	1.67E+00	n/a	n/a	pCi/g
26	2	Uranium-238	5.14E+01	7.50E+00	n/a	n/a	pCi/g
26	3	Cesium-137	7.48E-01	3.82E-01	n/a	n/a	pCi/g
26	3	Uranium-235	1.69E+00	1.67E+00	n/a	n/a	pCi/g
26	3	Uranium-238	5.19E+01	7.50E+00	n/a	n/a	pCi/g
26	4	Cesium-137	6.38E-01	3.82E-01	n/a	n/a	pCi/g
26	4	Neptunium-237	1.36E+01	8.66E-01	1.30E+01	n/a	pCi/g
26	4	Plutonium-239/240	5.00E+00	4.03E+00	n/a	n/a	pCi/g
26	4	Thorium-230	3.26E+01	2.54E+01	n/a	n/a	pCi/g
26	4	Uranium-234	1.54E+02	4.96E+01	n/a	n/a	pCi/g
26	4	Uranium-235	1.08E+01	1.67E+00	n/a	n/a	pCi/g
26	4	Uranium-238	3.66E+02	7.50E+00	1.13E+02	1.88E+02	pCi/g
165	1	Cesium-137	3.47E+00	3.82E-01	n/a	n/a	pCi/g
165	1	Uranium-234	5.76E+01	4.96E+01	n/a	n/a	pCi/g
165	1	Uranium-235	2.05E+00	1.67E+00	n/a	n/a	pCi/g
165	1	Uranium-238	6.41E+01	7.50E+00	n/a	n/a	pCi/g

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RGO = remedial goal option
n/a = not applicable, EPC > RGO

Child Resident Exposure to Surface Soil

SWMU	EU	COC	EPC	RGO at 1 mrem/yr	RGO at 15 mrem/yr	RGO at 25 mrem/yr	Units
169	1	Uranium-238	8.12E+00	7.50E+00	n/a	n/a	pCi/g
204	4	Uranium-238	9.72E+00	7.50E+00	n/a	n/a	pCi/g
204	18	Cesium-137	6.30E-01	3.82E-01	n/a	n/a	pCi/g
204	23	Americium-241	3.71E+00	3.47E+00	n/a	n/a	pCi/g
204	23	Cesium-137	1.17E+00	3.82E-01	n/a	n/a	pCi/g
204	23	Uranium-234	4.45E+02	4.96E+01	n/a	n/a	pCi/g
204	23	Uranium-235	5.70E+01	1.67E+00	2.51E+01	4.18E+01	pCi/g
204	23	Uranium-238	4.39E+03	7.50E+00	1.13E+02	1.88E+02	pCi/g
486	1	Cesium-137	1.71E+00	3.82E-01	n/a	n/a	pCi/g
487	1	Cesium-137	1.38E+00	3.82E-01	n/a	n/a	pCi/g
492	1	Uranium-234	5.39E+01	4.96E+01	n/a	n/a	pCi/g
492	1	Uranium-235	5.72E+00	1.67E+00	n/a	n/a	pCi/g
492	1	Uranium-238	3.83E+02	7.50E+00	1.13E+02	1.88E+02	pCi/g
517	1	Neptunium-237	1.07E+00	8.66E-01	n/a	n/a	pCi/g
541	1	Americium-241	7.53E+00	3.47E+00	n/a	n/a	pCi/g
541	1	Cesium-137	9.58E-01	3.82E-01	n/a	n/a	pCi/g
541	1	Uranium-234	1.43E+02	4.96E+01	n/a	n/a	pCi/g
541	1	Uranium-235	1.76E+01	1.67E+00	n/a	n/a	pCi/g
541	1	Uranium-238	1.00E+03	7.50E+00	1.13E+02	1.88E+02	pCi/g
561	1	Uranium-238	1.07E+02	7.50E+00	n/a	n/a	pCi/g
561	2	Cesium-137	4.09E-01	3.82E-01	n/a	n/a	pCi/g
561	2	Uranium-235	7.09E+00	1.67E+00	n/a	n/a	pCi/g
561	2	Uranium-238	4.00E+02	7.50E+00	1.13E+02	1.88E+02	pCi/g
562	2	Uranium-234	5.34E+01	4.96E+01	n/a	n/a	pCi/g
562	2	Uranium-235	8.96E+00	1.67E+00	n/a	n/a	pCi/g
562	2	Uranium-238	5.81E+02	7.50E+00	1.13E+02	1.88E+02	pCi/g
562	3	Uranium-238	1.09E+01	7.50E+00	n/a	n/a	pCi/g
562	5	Uranium-238	6.24E+01	7.50E+00	n/a	n/a	pCi/g
563	2	Cesium-137	6.47E-01	3.82E-01	n/a	n/a	pCi/g
564	1	Cesium-137	6.20E-01	3.82E-01	n/a	n/a	pCi/g
564	1	Uranium-238	8.33E+00	7.50E+00	n/a	n/a	pCi/g
12	1	Uranium-238	6.68E+01	7.50E+00	n/a	n/a	pCi/g
13	9	Neptunium-237	8.90E-01	8.66E-01	n/a	n/a	pCi/g
14	2	Uranium-235	2.00E+00	1.67E+00	n/a	n/a	pCi/g
14	2	Uranium-238	5.61E+01	7.50E+00	n/a	n/a	pCi/g
14	4	Neptunium-237	2.68E+00	8.66E-01	n/a	n/a	pCi/g
14	4	Uranium-234	1.13E+02	4.96E+01	n/a	n/a	pCi/g
14	4	Uranium-235	8.00E+00	1.67E+00	n/a	n/a	pCi/g
14	4	Uranium-238	1.69E+02	7.50E+00	1.13E+02	n/a	pCi/g
14	5	Neptunium-237	1.74E+00	8.66E-01	n/a	n/a	pCi/g
14	5	Uranium-234	5.22E+01	4.96E+01	n/a	n/a	pCi/g
14	5	Uranium-235	3.33E+00	1.67E+00	n/a	n/a	pCi/g
14	5	Uranium-238	9.42E+01	7.50E+00	n/a	n/a	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
RGO = remedial goal option
n/a = not applicable, EPC > RGO

Table D.43. Dose RGOs for the Soils OU SWMUs (Continued)

Child Resident Exposure to Surface Soil

SWMU	EU	COC	EPC	RGO at 1 mrem/yr	RGO at 15 mrem/yr	RGO at 25 mrem/yr	Units
14	6	Neptunium-237	2.65E+00	8.66E-01	n/a	n/a	pCi/g
14	6	Uranium-235	2.27E+00	1.67E+00	n/a	n/a	pCi/g
14	6	Uranium-238	5.08E+01	7.50E+00	n/a	n/a	pCi/g
14	7	Neptunium-237	1.49E+00	8.66E-01	n/a	n/a	pCi/g
14	7	Uranium-238	2.13E+01	7.50E+00	n/a	n/a	pCi/g
14	8	Neptunium-237	8.80E-01	8.66E-01	n/a	n/a	pCi/g
14	9	Cesium-137	4.53E-01	3.82E-01	n/a	n/a	pCi/g
14	9	Neptunium-237	1.09E+01	8.66E-01	n/a	n/a	pCi/g
14	9	Uranium-234	8.32E+02	4.96E+01	7.44E+02	n/a	pCi/g
14	9	Uranium-235	5.46E+01	1.67E+00	2.51E+01	4.18E+01	pCi/g
14	9	Uranium-238	1.20E+03	7.50E+00	1.13E+02	1.88E+02	pCi/g
14	10	Neptunium-237	2.64E+00	8.66E-01	n/a	n/a	pCi/g
14	10	Uranium-235	1.76E+00	1.67E+00	n/a	n/a	pCi/g
14	10	Uranium-238	4.09E+01	7.50E+00	n/a	n/a	pCi/g
15	2	Uranium-238	1.21E+01	7.50E+00	n/a	n/a	pCi/g
15	3	Neptunium-237	4.10E+00	8.66E-01	n/a	n/a	pCi/g
15	3	Uranium-234	6.96E+01	4.96E+01	n/a	n/a	pCi/g
15	3	Uranium-235	4.21E+00	1.67E+00	n/a	n/a	pCi/g
15	3	Uranium-238	9.67E+01	7.50E+00	n/a	n/a	pCi/g
15	4	Uranium-238	1.87E+01	7.50E+00	n/a	n/a	pCi/g
15	5	Uranium-238	1.03E+01	7.50E+00	n/a	n/a	pCi/g
15	6	Uranium-238	1.54E+01	7.50E+00	n/a	n/a	pCi/g
15	7	Uranium-238	8.05E+00	7.50E+00	n/a	n/a	pCi/g
16	1	Cesium-137	1.10E+00	3.82E-01	n/a	n/a	pCi/g
16	4	Cesium-137	3.66E+01	3.82E-01	5.73E+00	9.55E+00	pCi/g
16	4	Neptunium-237	7.12E+00	8.66E-01	n/a	n/a	pCi/g
16	4	Uranium-234	1.19E+02	4.96E+01	n/a	n/a	pCi/g
16	4	Uranium-235	8.23E+00	1.67E+00	n/a	n/a	pCi/g
16	4	Uranium-238	2.70E+02	7.50E+00	1.13E+02	1.88E+02	pCi/g
520	1	Cesium-137	9.62E-01	3.82E-01	n/a	n/a	pCi/g
74	1	Uranium-238	3.85E+01	7.50E+00	n/a	n/a	pCi/g
80	1	Americium-241	6.40E+00	3.47E+00	n/a	n/a	pCi/g
80	1	Uranium-234	2.29E+02	4.96E+01	n/a	n/a	pCi/g
80	1	Uranium-235	3.00E+01	1.67E+00	2.51E+01	n/a	pCi/g
80	1	Uranium-238	1.92E+03	7.50E+00	1.13E+02	1.88E+02	pCi/g
488	1	Cesium-137	5.20E-01	3.82E-01	n/a	n/a	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
EPC = exposure point concentration
RGO = remedial goal option
n/a = not applicable, EPC > RGO

Table D.43. Dose RGOs for the Soils OU SWMUs (Continued)

Teen Recreator Exposure to Surface Soil

SWMU	EU	COC	EPC	RGO at 1 mrem/yr	RGO at 15 mrem/yr	RGO at 25 mrem/yr	Units
226	1	Neptunium-237	1.60E+02	1.20E+01	n/a	n/a	pCi/g
26	2	Cesium-137	5.92E+00	4.58E+00	n/a	n/a	pCi/g
26	4	Neptunium-237	1.36E+01	1.20E+01	n/a	n/a	pCi/g
26	4	Uranium-238	3.66E+02	8.00E+01	n/a	n/a	pCi/g
204	23	Uranium-235	5.70E+01	2.03E+01	n/a	n/a	pCi/g
204	23	Uranium-238	4.39E+03	8.00E+01	1.20E+03	2.00E+03	pCi/g
492	1	Uranium-238	3.83E+02	8.00E+01	n/a	n/a	pCi/g
541	1	Uranium-238	1.00E+03	8.00E+01	n/a	n/a	pCi/g
561	1	Uranium-238	1.07E+02	8.00E+01	n/a	n/a	pCi/g
561	2	Uranium-238	4.00E+02	8.00E+01	n/a	n/a	pCi/g
562	2	Uranium-238	5.81E+02	8.00E+01	n/a	n/a	pCi/g
14	4	Uranium-238	1.69E+02	8.00E+01	n/a	n/a	pCi/g
14	5	Uranium-238	9.42E+01	8.00E+01	n/a	n/a	pCi/g
14	9	Uranium-235	5.46E+01	2.03E+01	n/a	n/a	pCi/g
14	9	Uranium-238	1.20E+03	8.00E+01	1.20E+03	n/a	pCi/g
15	3	Uranium-238	9.67E+01	8.00E+01	n/a	n/a	pCi/g
16	4	Cesium-137	3.66E+01	4.58E+00	n/a	n/a	pCi/g
16	4	Uranium-238	2.70E+02	8.00E+01	n/a	n/a	pCi/g
80	1	Uranium-235	3.00E+01	2.03E+01	n/a	n/a	pCi/g
80	1	Uranium-238	1.92E+03	8.00E+01	1.20E+03	n/a	pCi/g

SWMU = solid waste management unit
EU = exposure unit
COC = contaminant of concern
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RGO = remedial goal option
n/a = not applicable, EPC > RGO

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