Table D.44. Surface Soil Dose Assessment

				Dose (mrem/yr)						
SWMU	**EU**	**COPC**	**EPC (pCi/g)**	**Future Industrial Worker**	**Outdoor Worker (Exposed to Surface Soil)**	**Adult Resident**	**Child Resident**	**Adult Recreator**	**Teen Recreator**	**Child Recreator**
13	2	Uranium-238	1.40E+00	0.03	0.05	0.11	0.13	0.01	0.01	0.02
13	**2**	**Totals**		**0.03**	**0.05**	**0.11**	**0.13**	**0.01**	**0.01**	**0.02**
13	4	Uranium-238	1.78E+00	0.04	0.06	0.13	0.17	0.01	0.02	0.02
13	**4**	**Totals**		**0.04**	**0.06**	**0.13**	**0.17**	**0.01**	**0.02**	**0.02**
13	5	Neptunium-237	3.88E-01	0.07	0.07	0.23	0.24	0.02	0.03	0.03
13	5	Technetium-99	1.07E+02	0.01	0.02	0.02	0.07	0.00	0.00	0.01
13	5	Uranium-234	2.57E+01	0.07	0.42	0.17	0.60	0.01	0.02	0.05
13	5	Uranium-235	2.95E+00	0.38	0.32	1.19	1.24	0.12	0.17	0.17
13	5	Uranium-238	4.60E+01	1.12	1.49	3.48	4.29	0.35	0.48	0.54
13	**5**	**Totals**		**1.65**	**2.33**	**5.09**	**6.45**	**0.51**	**0.70**	**0.80**
13	6	Neptunium-237	1.25E+00	0.24	0.22	0.74	0.78	0.08	0.10	0.10
13	6	Technetium-99	9.50E+01	0.00	0.02	0.01	0.06	0.00	0.00	0.01
13	6	Uranium-234	2.04E+01	0.05	0.33	0.14	0.48	0.01	0.02	0.04
13	6	Uranium-235	1.40E+00	0.18	0.15	0.57	0.59	0.06	0.08	0.08
13	6	Uranium-238	4.17E+01	1.02	1.35	3.16	3.90	0.32	0.43	0.49
13	**6**	**Totals**		**1.49**	**2.08**	**4.62**	**5.80**	**0.46**	**0.64**	**0.72**
13	7	Uranium-238	1.30E+00	0.03	0.04	0.10	0.12	0.01	0.01	0.02
13	**7**	**Totals**		**0.03**	**0.04**	**0.10**	**0.12**	**0.01**	**0.01**	**0.02**
13	9	Neptunium-237	6.88E-01	0.13	0.12	0.41	0.43	0.04	0.06	0.06
13	9	Uranium-238	4.07E+00	0.10	0.13	0.31	0.38	0.03	0.04	0.05
13	**9**	**Totals**		**0.23**	**0.25**	**0.72**	**0.81**	**0.07**	**0.10**	**0.11**
13	14	Uranium-238	2.07E+00	0.05	0.07	0.16	0.19	0.02	0.02	0.02
13	**14**	**Totals**		**0.05**	**0.07**	**0.16**	**0.19**	**0.02**	**0.02**	**0.02**
15	1	Uranium-238	1.85E+00	0.05	0.06	0.14	0.17	0.01	0.02	0.02
15	**1**	**Totals**		**0.05**	**0.06**	**0.14**	**0.17**	**0.01**	**0.02**	**0.02**
15	2	Uranium-234	6.51E+00	0.02	0.11	0.04	0.15	0.00	0.01	0.01
15	2	Uranium-235	3.80E-01	0.05	0.04	0.15	0.16	0.02	0.02	0.02
15	2	Uranium-238	1.21E+01	0.30	0.39	0.92	1.13	0.09	0.13	0.14
15	**2**	**Totals**		**0.36**	**0.54**	**1.11**	**1.44**	**0.11**	**0.15**	**0.18**

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

Table D.44. Surface Soil Dose Assessment (Continued)

				Dose (mrem/yr)						
SWMU	EU	COPC	EPC (pCi/g)	Future Industrial Worker	Outdoor Worker (Exposed to Surface Soil)	Adult Resident	Child Resident	Adult Recreator	Teen Recreator	Child Recreator
15	3	Neptunium-237	3.24E+00	0.62	0.56	1.93	2.01	0.20	0.27	0.27
15	3	Technetium-99	2.90E+02	0.01	0.07	0.04	0.19	0.00	0.01	0.02
15	3	Thorium-230	5.14E+00	0.07	0.37	0.15	0.43	0.01	0.02	0.04
15	3	Uranium-234	1.40E+02	0.36	2.29	0.94	3.28	0.06	0.13	0.29
15	3	Uranium-235	1.49E+01	1.92	1.63	6.03	6.26	0.62	0.84	0.85
15	3	Uranium-238	8.68E+02	21.16	28.17	65.72	81.07	6.57	9.05	10.18
15	**3**	**Totals**		**24.14**	**33.08**	**74.81**	**93.24**	**7.47**	**10.29**	**11.65**
15	4	Neptunium-237	6.60E-01	0.13	0.11	0.39	0.41	0.04	0.05	0.06
15	4	Uranium-234	7.93E+00	0.02	0.13	0.05	0.19	0.00	0.01	0.02
15	4	Uranium-235	3.64E-01	0.05	0.04	0.15	0.15	0.02	0.02	0.02
15	4	Uranium-238	1.35E+01	0.33	0.44	1.02	1.26	0.10	0.14	0.16
15	**4**	**Totals**		**0.52**	**0.72**	**1.62**	**2.01**	**0.16**	**0.22**	**0.25**
15	5	Neptunium-237	6.90E-01	0.13	0.12	0.41	0.43	0.04	0.06	0.06
15	5	Uranium-235	4.60E-01	0.06	0.05	0.19	0.19	0.02	0.03	0.03
15	5	Uranium-238	1.03E+01	0.25	0.33	0.78	0.96	0.08	0.11	0.12
15	**5**	**Totals**		**0.44**	**0.50**	**1.38**	**1.58**	**0.14**	**0.19**	**0.21**
15	6	Neptunium-237	6.40E-01	0.12	0.11	0.38	0.40	0.04	0.05	0.05
15	6	Uranium-234	8.74E+00	0.02	0.14	0.06	0.20	0.00	0.01	0.02
15	6	Uranium-235	5.70E-01	0.07	0.06	0.23	0.24	0.02	0.03	0.03
15	6	Uranium-238	1.54E+01	0.38	0.50	1.17	1.44	0.12	0.16	0.18
15	**6**	**Totals**		**0.59**	**0.82**	**1.84**	**2.28**	**0.18**	**0.25**	**0.29**
15	7	Uranium-234	6.49E+00	0.02	0.11	0.04	0.15	0.00	0.01	0.01
15	7	Uranium-235	4.50E-01	0.06	0.05	0.18	0.19	0.02	0.03	0.03
15	7	Uranium-238	8.05E+00	0.20	0.26	0.61	0.75	0.06	0.08	0.09
15	**7**	**Totals**		**0.27**	**0.42**	**0.84**	**1.09**	**0.08**	**0.12**	**0.13**
15	8	Neptunium-237	3.65E-01	0.07	0.06	0.22	0.23	0.02	0.03	0.03
15	8	Uranium-238	6.64E+00	0.16	0.22	0.50	0.62	0.05	0.07	0.08
15	**8**	**Totals**		**0.23**	**0.28**	**0.72**	**0.85**	**0.07**	**0.10**	**0.11**
15	9	Uranium-238	7.12E+00	0.17	0.23	0.54	0.67	0.05	0.07	0.08

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

Table D.44. Surface Soil Dose Assessment (Continued)

				Dose (mrem/yr)						
SWMU	EU	COPC	EPC (pCi/g)	Future Industrial Worker	Outdoor Worker (Exposed to Surface Soil)	Adult Resident	Child Resident	Adult Recreator	Teen Recreator	Child Recreator
15	**9**	**Totals**		**0.17**	**0.23**	**0.54**	**0.67**	**0.05**	**0.07**	**0.08**
26	1	Uranium-234	7.78E+00	0.02	0.13	0.05	0.18	0.00	0.01	0.02
26	1	Uranium-235	1.23E+00	0.16	0.13	0.50	0.52	0.05	0.07	0.07
26	1	Uranium-238	6.75E+01	1.65	2.19	5.12	6.31	0.51	0.70	0.79
26	**1**	**Totals**		**1.83**	**2.45**	**5.67**	**7.01**	**0.57**	**0.78**	**0.88**
26	2	Cesium-137	9.52E+00	5.88	4.39	18.53	18.53	1.91	2.57	2.57
26	2	Neptunium-237	2.15E-01	0.04	0.04	0.13	0.13	0.01	0.02	0.02
26	2	Radium-228	1.69E+00	0.05	0.38	0.15	1.50	0.01	0.10	0.12
26	2	Thorium-230	3.59E+00	0.05	0.26	0.11	0.30	0.01	0.01	0.03
26	2	Uranium-234	1.98E+01	0.05	0.32	0.13	0.46	0.01	0.02	0.04
26	2	Uranium-235	2.36E+00	0.30	0.26	0.96	0.99	0.10	0.13	0.13
26	2	Uranium-238	5.01E+01	1.22	1.63	3.79	4.68	0.38	0.52	0.59
26	**2**	**Totals**		**7.60**	**7.27**	**23.79**	**26.59**	**2.43**	**3.37**	**3.51**
26	3	Cesium-137	4.51E+00	2.79	2.08	8.78	8.78	0.91	1.22	1.22
26	3	Neptunium-237	3.70E-01	0.07	0.06	0.22	0.23	0.02	0.03	0.03
26	3	Uranium-234	5.02E+00	0.01	0.08	0.03	0.12	0.00	0.00	0.01
26	3	Uranium-235	3.15E-01	0.04	0.03	0.13	0.13	0.01	0.02	0.02
26	3	Uranium-238	7.00E+00	0.17	0.23	0.53	0.65	0.05	0.07	0.08
26	**3**	**Totals**		**3.08**	**2.49**	**9.69**	**9.92**	**1.00**	**1.35**	**1.36**
26	4	Cesium-137	1.02E+00	0.63	0.47	1.99	1.99	0.21	0.28	0.28
26	4	Neptunium-237	2.80E+00	0.53	0.49	1.66	1.74	0.17	0.23	0.23
26	4	Plutonium-239/240	1.35E+01	0.21	1.14	0.47	1.20	0.04	0.05	0.11
26	4	Technetium-99	8.36E+02	0.04	0.19	0.12	0.55	0.01	0.01	0.05
26	4	Thorium-230	5.48E+01	0.71	3.91	1.64	4.60	0.12	0.17	0.42
26	4	Uranium-234	2.15E+02	0.56	3.52	1.45	5.04	0.10	0.19	0.44
26	4	Uranium-235	1.52E+01	1.95	1.66	6.13	6.37	0.63	0.85	0.87
26	4	Uranium-238	8.49E+02	20.72	27.58	64.35	79.38	6.43	8.86	9.97
26	**4**	**Totals**		**25.35**	**38.96**	**77.82**	**100.87**	**7.71**	**10.64**	**12.37**

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

Table D.44. Surface Soil Dose Assessment (Continued)

				Dose (mrem/yr)						
SWMU	EU	COPC	EPC (pCi/g)	Future Industrial Worker	Outdoor Worker (Exposed to Surface Soil)	Adult Resident	Child Resident	Adult Recreator	Teen Recreator	Child Recreator
77	1	Thorium-230	1.03E+01	0.13	0.74	0.31	0.87	0.02	0.03	0.08
77	1	Uranium-238	1.53E+01	0.37	0.50	1.16	1.43	0.12	0.16	0.18
77	**1**	**Totals**		**0.51**	**1.23**	**1.47**	**2.30**	**0.14**	**0.19**	**0.26**
80	2	Americium-241	6.40E+00	0.12	0.47	0.32	0.60	0.03	0.04	0.06
80	2	Cesium-137	8.40E-01	0.52	0.39	1.63	1.63	0.17	0.23	0.23
80	2	Neptunium-237	5.05E-01	0.10	0.09	0.30	0.31	0.03	0.04	0.04
80	2	Uranium-234	2.29E+02	0.60	3.74	1.54	5.36	0.11	0.20	0.47
80	2	Uranium-235	3.00E+01	3.87	3.28	12.15	12.61	1.24	1.69	1.71
80	2	Uranium-238	1.92E+03	46.85	62.37	145.53	179.53	14.55	20.03	22.55
80	**2**	**Totals**		**52.05**	**70.33**	**161.46**	**200.05**	**16.13**	**22.23**	**25.06**
80	3	Uranium-238	1.59E+00	0.04	0.05	0.12	0.15	0.01	0.02	0.02
80	**3**	**Totals**		**0.04**	**0.05**	**0.12**	**0.15**	**0.01**	**0.02**	**0.02**
204	1	Uranium-238	1.27E+00	0.03	0.04	0.10	0.12	0.01	0.01	0.01
204	**1**	**Totals**		**0.03**	**0.04**	**0.10**	**0.12**	**0.01**	**0.01**	**0.01**
204	2	Uranium-238	3.92E+00	0.10	0.13	0.30	0.37	0.03	0.04	0.05
204	**2**	**Totals**		**0.10**	**0.13**	**0.30**	**0.37**	**0.03**	**0.04**	**0.05**
204	3	Uranium-238	2.31E+00	0.06	0.08	0.18	0.22	0.02	0.02	0.03
204	**3**	**Totals**		**0.06**	**0.08**	**0.18**	**0.22**	**0.02**	**0.02**	**0.03**
204	4	Uranium-238	1.82E+00	0.04	0.06	0.14	0.17	0.01	0.02	0.02
204	**4**	**Totals**		**0.04**	**0.06**	**0.14**	**0.17**	**0.01**	**0.02**	**0.02**
204	5	Uranium-238	5.65E+00	0.14	0.18	0.43	0.53	0.04	0.06	0.07
204	**5**	**Totals**		**0.14**	**0.18**	**0.43**	**0.53**	**0.04**	**0.06**	**0.07**
204	6	Uranium-238	3.63E+00	0.09	0.12	0.28	0.34	0.03	0.04	0.04
204	**6**	**Totals**		**0.09**	**0.12**	**0.28**	**0.34**	**0.03**	**0.04**	**0.04**
204	7	Uranium-238	2.04E+00	0.05	0.07	0.15	0.19	0.02	0.02	0.02
204	**7**	**Totals**		**0.05**	**0.07**	**0.15**	**0.19**	**0.02**	**0.02**	**0.02**
204	8	Uranium-238	2.01E+00	0.05	0.07	0.15	0.19	0.02	0.02	0.02
204	**8**	**Totals**		**0.05**	**0.07**	**0.15**	**0.19**	**0.02**	**0.02**	**0.02**

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

Table D.44. Surface Soil Dose Assessment (Continued)

				Dose (mrem/yr)						
SWMU	EU	COPC	EPC (pCi/g)	Future Industrial Worker	Outdoor Worker (Exposed to Surface Soil)	Adult Resident	Child Resident	Adult Recreator	Teen Recreator	Child Recreator
204	9	Uranium-238	2.22E+00	0.05	0.07	0.17	0.21	0.02	0.02	0.03
204	**9**	**Totals**		**0.05**	**0.07**	**0.17**	**0.21**	**0.02**	**0.02**	**0.03**
204	10	Uranium-238	3.15E+00	0.08	0.10	0.24	0.29	0.02	0.03	0.04
204	**10**	**Totals**		**0.08**	**0.10**	**0.24**	**0.29**	**0.02**	**0.03**	**0.04**
204	11	Uranium-238	3.09E+00	0.08	0.10	0.23	0.29	0.02	0.03	0.04
204	**11**	**Totals**		**0.08**	**0.10**	**0.23**	**0.29**	**0.02**	**0.03**	**0.04**
204	12	Uranium-238	3.26E+00	0.08	0.11	0.25	0.30	0.02	0.03	0.04
204	**12**	**Totals**		**0.08**	**0.11**	**0.25**	**0.30**	**0.02**	**0.03**	**0.04**
204	13	Uranium-238	2.98E+00	0.07	0.10	0.23	0.28	0.02	0.03	0.03
204	**13**	**Totals**		**0.07**	**0.10**	**0.23**	**0.28**	**0.02**	**0.03**	**0.03**
204	14	Uranium-238	4.25E+00	0.10	0.14	0.32	0.40	0.03	0.04	0.05
204	**14**	**Totals**		**0.10**	**0.14**	**0.32**	**0.40**	**0.03**	**0.04**	**0.05**
204	15	Cesium-137	6.30E-01	0.39	0.29	1.23	1.23	0.13	0.17	0.17
204	15	Uranium-238	5.37E+00	0.13	0.17	0.41	0.50	0.04	0.06	0.06
204	**15**	**Totals**		**0.52**	**0.46**	**1.63**	**1.73**	**0.17**	**0.23**	**0.23**
204	17	Uranium-238	2.50E+00	0.06	0.08	0.19	0.23	0.02	0.03	0.03
204	**17**	**Totals**		**0.06**	**0.08**	**0.19**	**0.23**	**0.02**	**0.03**	**0.03**
204	18	Uranium-238	1.81E+00	0.04	0.06	0.14	0.17	0.01	0.02	0.02
204	**18**	**Totals**		**0.04**	**0.06**	**0.14**	**0.17**	**0.01**	**0.02**	**0.02**
204	19	Uranium-238	2.65E+00	0.06	0.09	0.20	0.25	0.02	0.03	0.03
204	**19**	**Totals**		**0.06**	**0.09**	**0.20**	**0.25**	**0.02**	**0.03**	**0.03**
204	20	Americium-241	3.71E+00	0.07	0.27	0.18	0.35	0.02	0.02	0.04
204	20	Cesium-137	1.17E+00	0.72	0.54	2.28	2.28	0.24	0.32	0.32
204	20	Protactinium-231	3.65E+01	1.64	8.83	4.39	11.47	0.33	0.48	1.04
204	20	Uranium-234	4.45E+02	1.16	7.27	2.99	10.42	0.21	0.40	0.92
204	20	Uranium-235	5.70E+01	7.35	6.23	23.08	23.95	2.37	3.20	3.26
204	20	Uranium-238	4.39E+03	106.98	142.40	332.27	409.91	33.23	45.74	51.48
204	**20**	**Totals**		**117.92**	**165.54**	**365.19**	**458.37**	**36.38**	**50.15**	**57.05**

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

Table D.44. Surface Soil Dose Assessment (Continued)

				Dose (mrem/yr)						
SWMU	**EU**	**COPC**	**EPC (pCi/g)**	**Future Industrial Worker**	**Outdoor Worker (Exposed to Surface Soil)**	**Adult Resident**	**Child Resident**	**Adult Recreator**	**Teen Recreator**	**Child Recreator**
211	1	Cesium-137	1.67E+00	1.03	0.77	3.25	3.25	0.34	0.45	0.45
211	1	Neptunium-237	5.93E+00	1.13	1.03	3.53	3.68	0.36	0.49	0.50
211	1	Uranium-234	6.69E+01	0.17	1.09	0.45	1.57	0.03	0.06	0.14
211	1	Uranium-238	1.19E+02	2.90	3.86	9.02	11.12	0.90	1.24	1.40
211	**1**	**Totals**		**5.24**	**6.76**	**16.24**	**19.62**	**1.63**	**2.24**	**2.48**
224	1	Uranium-238	1.39E+01	0.34	0.45	1.05	1.30	0.11	0.14	0.16
224	**1**	**Totals**		**0.34**	**0.45**	**1.05**	**1.30**	**0.11**	**0.14**	**0.16**
225	1	Uranium-238	2.04E+00	0.05	0.07	0.15	0.19	0.02	0.02	0.02
225	**1**	**Totals**		**0.05**	**0.07**	**0.15**	**0.19**	**0.02**	**0.02**	**0.02**

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

Table D.45. Subsurface Soil Dose Assessment

SWMU	EU	COPC	EPC (pCi/g)	Dose (mrem/yr) Outdoor Worker (Exposed to Surface and Subsurface Soil)	Dose (mrem/yr) Excavation Worker
13	2	Uranium-238	9.95E-01	0.03	0.03
13	**2**	**Totals**		**0.03**	**0.03**
13	4	Cobalt-60	8.06E-02	0.03	0.03
13	4	Uranium-238	3.27E+00	0.11	0.11
13	**4**	**Totals**		**0.14**	**0.14**
13	5	Cesium-137	3.52E-01	0.16	0.16
13	5	Neptunium-237	3.60E-01	0.06	0.06
13	5	Technetium-99	9.19E+01	0.02	0.02
13	5	Uranium-234	2.02E+01	0.33	0.33
13	5	Uranium-235	2.73E+00	0.30	0.30
13	5	Uranium-238	3.77E+01	1.23	1.23
13	**5**	**Totals**		**2.10**	**2.10**
13	6	Cesium-137	2.02E-01	0.09	0.09
13	6	Neptunium-237	6.23E-01	0.11	0.11
13	6	Technetium-99	8.38E+01	0.02	0.02
13	6	Uranium-234	1.55E+01	0.25	0.25
13	6	Uranium-235	1.16E+00	0.13	0.13
13	6	Uranium-238	3.25E+01	1.05	1.05
13	**6**	**Totals**		**1.66**	**1.66**
13	7	Uranium-238	3.69E+00	0.12	0.12
13	**7**	**Totals**		**0.12**	**0.12**
13	9	Cesium-137	2.64E-01	0.12	0.12
13	9	Neptunium-237	5.15E-01	0.09	0.09
13	9	Uranium-238	3.78E+00	0.12	0.12
13	**9**	**Totals**		**0.33**	**0.33**
13	11	Uranium-238	1.20E+00	0.00	0.00
13	**11**	**Totals**		**0.00**	**0.00**
13	14	Uranium-238	3.85E+00	0.12	0.12
13	**14**	**Totals**		**0.12**	**0.12**
15	1	Technetium-99	1.06E+02	0.02	0.02
15	1	Uranium-238	1.30E+00	0.04	0.04
15	**1**	**Totals**		**0.07**	**0.07**
15	2	Neptunium-237	5.56E-01	0.10	0.10
15	2	Uranium-234	6.51E+00	0.11	0.11
15	2	Uranium-235	3.80E-01	0.04	0.04
15	2	Uranium-238	1.21E+01	0.39	0.39
15	**2**	**Totals**		**0.64**	**0.64**
15	3	Neptunium-237	4.06E+00	0.71	0.71
15	3	Technetium-99	2.08E+02	0.05	0.05
15	3	Thorium-230	4.61E+00	0.33	0.33
15	3	Uranium-234	1.91E+02	3.12	3.12
15	3	Uranium-235	2.15E+01	2.35	2.35
15	3	Uranium-238	1.08E+03	34.94	34.94

SWMU = solid waste management unit
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EPC = exposure point concentration

Table D.45. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Dose (mrem/yr) Outdoor Worker (Exposed to Surface and Subsurface Soil)	Dose (mrem/yr) Excavation Worker
15	**3**	**Totals**		**41.48**	**41.48**
15	4	Neptunium-237	4.33E-01	0.08	0.08
15	4	Uranium-234	5.74E+00	0.09	0.09
15	4	Uranium-235	2.69E-01	0.03	0.03
15	4	Uranium-238	9.63E+00	0.31	0.31
15	**4**	**Totals**		**0.51**	**0.51**
15	5	Neptunium-237	5.30E-01	0.09	0.09
15	5	Uranium-235	3.62E-01	0.04	0.04
15	5	Uranium-238	8.14E+00	0.26	0.26
15	**5**	**Totals**		**0.40**	**0.40**
15	6	Neptunium-237	4.93E-01	0.09	0.09
15	6	Uranium-234	6.91E+00	0.11	0.11
15	6	Uranium-235	4.48E-01	0.05	0.05
15	6	Uranium-238	1.21E+01	0.39	0.39
15	**6**	**Totals**		**0.64**	**0.64**
15	7	Uranium-234	4.27E+00	0.07	0.07
15	7	Uranium-235	2.96E-01	0.03	0.03
15	7	Uranium-238	6.39E+00	0.21	0.21
15	**7**	**Totals**		**0.31**	**0.31**
15	8	Neptunium-237	2.83E-01	0.05	0.05
15	8	Uranium-238	4.52E+00	0.15	0.15
15	**8**	**Totals**		**0.20**	**0.20**
15	9	Uranium-238	4.68E+00	0.15	0.15
15	**9**	**Totals**		**0.15**	**0.15**
26	1	Uranium-234	8.04E+00	0.13	0.13
26	1	Uranium-235	1.27E+00	0.14	0.14
26	1	Uranium-238	6.95E+01	2.26	2.26
26	**1**	**Totals**		**2.53**	**2.53**
26	2	Cesium-137	8.23E+00	3.79	3.79
26	2	Neptunium-237	2.04E-01	0.04	0.04
26	2	Radium-228	1.69E+00	0.38	0.38
26	2	Thorium-230	3.02E+00	0.22	0.22
26	2	Uranium-234	1.41E+01	0.23	0.23
26	2	Uranium-235	1.84E+00	0.20	0.20
26	2	Uranium-238	3.92E+01	1.27	1.27
26	**2**	**Totals**		**6.13**	**6.13**
26	3	Cesium-137	3.38E+00	1.56	1.56
26	3	Neptunium-237	3.35E-01	0.06	0.06
26	3	Uranium-234	3.89E+00	0.06	0.06
26	3	Uranium-235	2.91E-01	0.03	0.03
26	3	Uranium-238	5.86E+00	0.19	0.19
26	**3**	**Totals**		**1.90**	**1.90**
26	4	Cesium-137	4.69E+00	2.16	2.16

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Table D.45. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Dose (mrem/yr) Outdoor Worker (Exposed to Surface and Subsurface Soil)	Dose (mrem/yr) Excavation Worker
26	4	Neptunium-237	3.87E+01	6.73	6.73
26	4	Plutonium-239/240	1.51E+01	1.28	1.28
26	4	Technetium-99	3.81E+03	0.86	0.86
26	4	Thorium-230	8.68E+01	6.20	6.20
26	4	Uranium-234	3.46E+02	5.65	5.65
26	4	Uranium-235	2.46E+01	2.68	2.68
26	4	Uranium-238	8.24E+02	26.75	26.75
26	**4**	**Totals**		**52.32**	**52.32**
77	1	Thorium-230	1.03E+01	0.74	0.74
77	1	Uranium-238	1.53E+01	0.50	0.50
77	**1**	**Totals**		**1.23**	**1.23**
80	2	Americium-241	6.40E+00	0.47	0.47
80	2	Cesium-137	8.40E-01	0.39	0.39
80	2	Neptunium-237	5.05E-01	0.09	0.09
80	2	Uranium-234	2.29E+02	3.74	3.74
80	2	Uranium-235	3.00E+01	3.28	3.28
80	2	Uranium-238	1.92E+03	62.37	62.37
80	**2**	**Totals**		**70.33**	**70.33**
80	3	Uranium-238	2.91E+00	0.09	0.09
80	**3**	**Totals**		**0.09**	**0.09**
204	1	Uranium-238	1.37E+00	0.04	0.04
204	**1**	**Totals**		**0.04**	**0.04**
204	2	Uranium-238	2.85E+00	0.09	0.09
204	**2**	**Totals**		**0.09**	**0.09**
204	3	Uranium-238	2.31E+00	0.08	0.08
204	**3**	**Totals**		**0.08**	**0.08**
204	4	Uranium-238	1.82E+00	0.06	0.06
204	**4**	**Totals**		**0.06**	**0.06**
204	5	Uranium-238	6.60E+00	0.21	0.21
204	**5**	**Totals**		**0.21**	**0.21**
204	6	Uranium-238	3.63E+00	0.12	0.12
204	**6**	**Totals**		**0.12**	**0.12**
204	7	Uranium-238	2.04E+00	0.07	0.07
204	**7**	**Totals**		**0.07**	**0.07**
204	8	Uranium-238	2.01E+00	0.07	0.07
204	**8**	**Totals**		**0.07**	**0.07**
204	9	Uranium-238	2.22E+00	0.07	0.07
204	**9**	**Totals**		**0.07**	**0.07**
204	10	Cesium-137	2.83E-01	0.13	0.13
204	10	Uranium-238	3.15E+00	0.10	0.10
204	**10**	**Totals**		**0.23**	**0.23**
204	11	Uranium-238	3.09E+00	0.10	0.10
204	**11**	**Totals**		**0.10**	**0.10**

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Table D.45. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Dose (mrem/yr) Outdoor Worker (Exposed to Surface and Subsurface Soil)	Dose (mrem/yr) Excavation Worker
204	12	Cesium-137	2.93E-01	0.14	0.14
204	12	Uranium-238	3.26E+00	0.11	0.11
204	**12**	**Totals**		**0.24**	**0.24**
204	13	Cesium-137	2.89E-01	0.13	0.13
204	13	Uranium-238	2.98E+00	0.10	0.10
204	**13**	**Totals**		**0.23**	**0.23**
204	14	Uranium-238	4.25E+00	0.14	0.14
204	**14**	**Totals**		**0.14**	**0.14**
204	15	Cesium-137	6.30E-01	0.29	0.29
204	15	Uranium-238	5.37E+00	0.17	0.17
204	**15**	**Totals**		**0.46**	**0.46**
204	17	Uranium-238	2.50E+00	0.08	0.08
204	**17**	**Totals**		**0.08**	**0.08**
204	18	Uranium-238	1.81E+00	0.06	0.06
204	**18**	**Totals**		**0.06**	**0.06**
204	19	Uranium-238	2.65E+00	0.09	0.09
204	**19**	**Totals**		**0.09**	**0.09**
204	20	Americium-241	3.71E+00	0.27	0.27
204	20	Cesium-137	1.17E+00	0.54	0.54
204	20	Protactinium-231	3.65E+01	8.83	8.83
204	20	Uranium-234	4.45E+02	7.27	7.27
204	20	Uranium-235	5.70E+01	6.23	6.23
204	20	Uranium-238	4.39E+03	142.40	142.40
204	**20**	**Totals**		**165.54**	**165.54**
211	1	Uranium-234	6.69E+01	1.09	1.09
211	1	Uranium-235	3.86E+00	0.42	0.42
211	1	Uranium-238	1.19E+02	3.86	3.86
211	**1**	**Totals**		**5.38**	**5.38**
224	1	Cesium-137	3.70E-01	0.17	0.17
224	1	Uranium-238	1.39E+01	0.45	0.45
224	**1**	**Totals**		**0.62**	**0.62**
225	1	Cesium-137	4.17E-01	0.19	0.19
225	1	Uranium-238	2.04E+00	0.07	0.07
225	**1**	**Totals**		**0.26**	**0.26**
565	1	Cesium-137	4.00E-01	0.18	0.18
565	**1**	**Totals**		**0.18**	**0.18**

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