

Table D.38. Surface Soil Dose Assessment

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
1	1	Cesium-137	0.59	0.27	0.37	1.55	1.55	0.13
1	1	Neptunium-237	0.40	0.22	0.10	0.40	0.46	0.03
1	1	Plutonium-239/240	6.14	1.93	0.27	0.76	1.52	0.06
1	1	Thorium-230	44.01	2.15	0.31	0.89	1.73	0.07
1	1	Uranium-235	0.11	0.01	0.02	0.06	0.06	0.01
1	1	Uranium-238	1.97	0.09	0.07	0.24	0.26	0.02
<b>1</b>	<b>1</b>	<b>Totals</b>		<b>4.67</b>	<b>1.15</b>	<b>3.91</b>	<b>5.59</b>	<b>0.33</b>
1	3	Uranium-238	1.73	0.08	0.06	0.21	0.23	0.02
<b>1</b>	<b>3</b>	<b>Totals</b>		<b>0.08</b>	<b>0.06</b>	<b>0.21</b>	<b>0.23</b>	<b>0.02</b>
1	4	Cobalt-60	0.02	0.05	0.07	0.27	0.27	0.02
1	4	Thorium-230	5.03	0.25	0.04	0.10	0.20	0.01
<b>1</b>	<b>4</b>	<b>Totals</b>		<b>0.29</b>	<b>0.10</b>	<b>0.37</b>	<b>0.47</b>	<b>0.03</b>
99	1	Cobalt-60	0.01	0.03	0.04	0.15	0.15	0.01
99	1	Uranium-238	0.95	0.04	0.03	0.12	0.13	0.01
<b>99</b>	<b>1</b>	<b>Totals</b>		<b>0.07</b>	<b>0.07</b>	<b>0.26</b>	<b>0.27</b>	<b>0.02</b>
194	2	Uranium-238	1.42	0.06	0.05	0.18	0.19	0.02
<b>194</b>	<b>2</b>	<b>Totals</b>		<b>0.06</b>	<b>0.05</b>	<b>0.18</b>	<b>0.19</b>	<b>0.02</b>
194	3	Uranium-238	1.28	0.06	0.05	0.16	0.17	0.02
<b>194</b>	<b>3</b>	<b>Totals</b>		<b>0.06</b>	<b>0.05</b>	<b>0.16</b>	<b>0.17</b>	<b>0.02</b>
194	4	Uranium-238	1.73	0.08	0.06	0.21	0.23	0.02
<b>194</b>	<b>4</b>	<b>Totals</b>		<b>0.08</b>	<b>0.06</b>	<b>0.21</b>	<b>0.23</b>	<b>0.02</b>
194	5	Uranium-238	1.38	0.06	0.05	0.17	0.18	0.02
<b>194</b>	<b>5</b>	<b>Totals</b>		<b>0.06</b>	<b>0.05</b>	<b>0.17</b>	<b>0.18</b>	<b>0.02</b>
194	6	Uranium-238	1.32	0.06	0.05	0.16	0.18	0.02
<b>194</b>	<b>6</b>	<b>Totals</b>		<b>0.06</b>	<b>0.05</b>	<b>0.16</b>	<b>0.18</b>	<b>0.02</b>
194	8	Uranium-238	1.39	0.06	0.05	0.17	0.19	0.02
<b>194</b>	<b>8</b>	<b>Totals</b>		<b>0.06</b>	<b>0.05</b>	<b>0.17</b>	<b>0.19</b>	<b>0.02</b>
194	10	Cesium-137	0.58	0.27	0.36	1.52	1.52	0.13
194	10	Uranium-238	1.49	0.07	0.05	0.18	0.20	0.02
<b>194</b>	<b>10</b>	<b>Totals</b>		<b>0.34</b>	<b>0.42</b>	<b>1.70</b>	<b>1.72</b>	<b>0.15</b>
194	31	Cesium-137	0.57	0.27	0.36	1.49	1.49	0.12
194	31	Uranium-238	1.72	0.08	0.06	0.21	0.23	0.02
<b>194</b>	<b>31</b>	<b>Totals</b>		<b>0.34</b>	<b>0.42</b>	<b>1.70</b>	<b>1.72</b>	<b>0.15</b>
196	1	Neptunium-237	0.31	0.17	0.08	0.31	0.36	0.03
196	1	Uranium-238	1.54	0.07	0.06	0.19	0.21	0.02
<b>196</b>	<b>1</b>	<b>Totals</b>		<b>0.24</b>	<b>0.14</b>	<b>0.50</b>	<b>0.56</b>	<b>0.05</b>

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

Table D.38. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
196	2	Uranium-238	2.21	0.10	0.08	0.27	0.29	0.03
<b>196</b>	<b>2</b>	<b>Totals</b>		<b>0.10</b>	<b>0.08</b>	<b>0.27</b>	<b>0.29</b>	<b>0.03</b>
489	1	Uranium-238	1.47	0.07	0.05	0.18	0.20	0.02
<b>489</b>	<b>1</b>	<b>Totals</b>		<b>0.07</b>	<b>0.05</b>	<b>0.18</b>	<b>0.20</b>	<b>0.02</b>
531	1	Uranium-235	0.14	0.02	0.02	0.08	0.08	0.01
531	1	Uranium-238	3.48	0.16	0.13	0.43	0.46	0.04
<b>531</b>	<b>1</b>	<b>Totals</b>		<b>0.18</b>	<b>0.15</b>	<b>0.51</b>	<b>0.55</b>	<b>0.05</b>
200	1	Cesium-137	0.57	0.27	0.36	1.50	1.50	0.13
200	1	Uranium-235	0.14	0.02	0.02	0.08	0.09	0.01
200	1	Uranium-238	3.58	0.16	0.13	0.44	0.48	0.04
<b>200</b>	<b>1</b>	<b>Totals</b>		<b>0.45</b>	<b>0.51</b>	<b>2.03</b>	<b>2.07</b>	<b>0.18</b>
212	1	Cesium-137	0.60	0.28	0.38	1.57	1.57	0.13
212	1	Cobalt-60	0.01	0.02	0.03	0.11	0.11	0.01
212	1	Neptunium-237	4.00	2.17	1.03	4.00	4.62	0.33
212	1	Plutonium-239/240	6.71	2.11	0.30	0.83	1.67	0.07
212	1	Thorium-230	260.00	12.68	1.86	5.24	10.24	0.44
212	1	Uranium-235	0.21	0.03	0.03	0.12	0.13	0.01
212	1	Uranium-238	3.17	0.14	0.11	0.39	0.42	0.04
<b>212</b>	<b>1</b>	<b>Totals</b>		<b>17.44</b>	<b>3.73</b>	<b>12.27</b>	<b>18.75</b>	<b>1.03</b>
213	1	Uranium-238	2.33	0.11	0.08	0.29	0.31	0.03
<b>213</b>	<b>1</b>	<b>Totals</b>		<b>0.11</b>	<b>0.08</b>	<b>0.29</b>	<b>0.31</b>	<b>0.03</b>
216	1	Uranium-238	1.33	0.06	0.05	0.16	0.18	0.02
<b>216</b>	<b>1</b>	<b>Totals</b>		<b>0.06</b>	<b>0.05</b>	<b>0.16</b>	<b>0.18</b>	<b>0.02</b>
217	1	Uranium-238	1.15	0.05	0.04	0.14	0.15	0.01
<b>217</b>	<b>1</b>	<b>Totals</b>		<b>0.05</b>	<b>0.04</b>	<b>0.14</b>	<b>0.15</b>	<b>0.01</b>
221	1	Uranium-238	1.93	0.09	0.07	0.24	0.26	0.02
<b>221</b>	<b>1</b>	<b>Totals</b>		<b>0.09</b>	<b>0.07</b>	<b>0.24</b>	<b>0.26</b>	<b>0.02</b>
222	1	Uranium-234	10.40	0.26	0.04	0.11	0.21	0.01
222	1	Uranium-235	0.71	0.09	0.10	0.42	0.43	0.03
222	1	Uranium-238	19.60	0.89	0.71	2.42	2.61	0.25
<b>222</b>	<b>1</b>	<b>Totals</b>		<b>1.24</b>	<b>0.85</b>	<b>2.95</b>	<b>3.25</b>	<b>0.29</b>

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

Table D.38. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
227	1	Cesium-137	0.19	0.09	0.12	0.50	0.50	0.04
227	1	Cobalt-60	0.02	0.03	0.05	0.19	0.19	0.02
227	1	Neptunium-237	0.91	0.49	0.23	0.91	1.05	0.08
227	1	Technetium-99	47.72	0.01	0.00	0.01	0.01	0.00
227	1	Uranium-234	15.44	0.39	0.06	0.16	0.31	0.01
227	1	Uranium-235	1.49	0.19	0.21	0.88	0.89	0.07
227	1	Uranium-238	46.28	2.10	1.67	5.71	6.17	0.58
<b>227</b>	<b>1</b>	<b>Totals</b>		<b>3.30</b>	<b>2.34</b>	<b>8.35</b>	<b>9.12</b>	<b>0.80</b>
227	2	Cobalt-60	0.01	0.03	0.04	0.17	0.17	0.01
227	2	Uranium-238	1.57	0.07	0.06	0.19	0.21	0.02
<b>227</b>	<b>2</b>	<b>Totals</b>		<b>0.10</b>	<b>0.10</b>	<b>0.36</b>	<b>0.38</b>	<b>0.03</b>
228	1	Neptunium-237	0.80	0.43	0.21	0.80	0.92	0.07
228	1	Uranium-235	0.18	0.02	0.03	0.11	0.11	0.01
228	1	Uranium-238	3.77	0.17	0.14	0.47	0.50	0.05
<b>228</b>	<b>1</b>	<b>Totals</b>		<b>0.63</b>	<b>0.37</b>	<b>1.37</b>	<b>1.53</b>	<b>0.12</b>
76	1	Uranium-238	1.45	0.07	0.05	0.18	0.19	0.02
<b>76</b>	<b>1</b>	<b>Totals</b>		<b>0.07</b>	<b>0.05</b>	<b>0.18</b>	<b>0.19</b>	<b>0.02</b>
165	1	Cesium-137	3.47	1.61	2.17	9.09	9.09	0.76
165	1	Neptunium-237	0.43	0.23	0.11	0.43	0.49	0.04
165	1	Plutonium-239/240	2.81	0.88	0.12	0.35	0.70	0.03
165	1	Thorium-230	6.02	0.29	0.04	0.12	0.24	0.01
165	1	Uranium-234	57.55	1.45	0.21	0.59	1.16	0.05
165	1	Uranium-235	2.05	0.26	0.29	1.21	1.22	0.10
165	1	Uranium-238	64.09	2.91	2.31	7.91	8.55	0.80
<b>165</b>	<b>1</b>	<b>Totals</b>		<b>7.64</b>	<b>5.26</b>	<b>19.69</b>	<b>21.44</b>	<b>1.78</b>
170	1	Neptunium-237	0.12	0.06	0.03	0.12	0.13	0.01
170	1	Uranium-238	1.53	0.07	0.06	0.19	0.20	0.02
<b>170</b>	<b>1</b>	<b>Totals</b>		<b>0.13</b>	<b>0.08</b>	<b>0.30</b>	<b>0.34</b>	<b>0.03</b>
158	1	Uranium-235	0.16	0.02	0.02	0.10	0.10	0.01
158	1	Uranium-238	3.79	0.17	0.14	0.47	0.51	0.05
<b>158</b>	<b>1</b>	<b>Totals</b>		<b>0.19</b>	<b>0.16</b>	<b>0.56</b>	<b>0.60</b>	<b>0.06</b>
169	1	Uranium-234	6.55	0.16	0.02	0.07	0.13	0.01
169	1	Uranium-235	0.46	0.06	0.07	0.27	0.28	0.02
169	1	Uranium-238	8.12	0.37	0.29	1.00	1.08	0.10
<b>169</b>	<b>1</b>	<b>Totals</b>		<b>0.59</b>	<b>0.38</b>	<b>1.34</b>	<b>1.49</b>	<b>0.13</b>
195	17	Uranium-235	0.13	0.02	0.02	0.08	0.08	0.01

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Table D.38. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
195	17	Uranium-238	2.48	0.11	0.09	0.31	0.33	0.03
<b>195</b>	<b>17</b>	<b>Totals</b>		<b>0.13</b>	<b>0.11</b>	<b>0.38</b>	<b>0.41</b>	<b>0.04</b>
486	1	Cesium-137	1.71	0.80	1.07	4.48	4.48	0.37
<b>486</b>	<b>1</b>	<b>Totals</b>		<b>0.80</b>	<b>1.07</b>	<b>4.48</b>	<b>4.48</b>	<b>0.37</b>
487	1	Cesium-137	1.38	0.64	0.86	3.61	3.61	0.30
<b>487</b>	<b>1</b>	<b>Totals</b>		<b>0.64</b>	<b>0.86</b>	<b>3.61</b>	<b>3.61</b>	<b>0.30</b>
492	1	Cobalt-60	0.01	0.02	0.03	0.12	0.12	0.01
492	1	Neptunium-237	0.21	0.11	0.05	0.21	0.24	0.02
492	1	Uranium-234	53.90	1.36	0.20	0.55	1.09	0.05
492	1	Uranium-235	5.72	0.72	0.81	3.38	3.43	0.28
492	1	Uranium-238	383.00	17.41	13.83	47.28	51.07	4.79
<b>492</b>	<b>1</b>	<b>Totals</b>		<b>19.62</b>	<b>14.91</b>	<b>51.55</b>	<b>55.94</b>	<b>5.14</b>
493	1	Cobalt-60	0.01	0.03	0.04	0.17	0.17	0.01
493	1	Neptunium-237	0.12	0.07	0.03	0.12	0.14	0.01
493	1	Uranium-235	0.17	0.02	0.02	0.10	0.10	0.01
493	1	Uranium-238	5.50	0.25	0.20	0.68	0.73	0.07
<b>493</b>	<b>1</b>	<b>Totals</b>		<b>0.37</b>	<b>0.29</b>	<b>1.07</b>	<b>1.14</b>	<b>0.10</b>
517	1	Cobalt-60	0.01	0.01	0.02	0.08	0.08	0.01
517	1	Neptunium-237	1.07	0.58	0.27	1.07	1.24	0.09
517	1	Uranium-235	0.16	0.02	0.02	0.09	0.10	0.01
517	1	Uranium-238	3.89	0.18	0.14	0.48	0.52	0.05
<b>517</b>	<b>1</b>	<b>Totals</b>		<b>0.79</b>	<b>0.46</b>	<b>1.72</b>	<b>1.93</b>	<b>0.15</b>
541	1	Americium-241	7.53	2.48	0.40	1.21	2.17	0.10
541	1	Cesium-137	0.96	0.45	0.60	2.51	2.51	0.21
541	1	Cobalt-60	0.01	0.02	0.03	0.13	0.13	0.01
541	1	Neptunium-237	0.06	0.03	0.01	0.06	0.06	0.00
541	1	Uranium-234	142.90	3.60	0.52	1.46	2.88	0.12
541	1	Uranium-235	17.56	2.21	2.49	10.39	10.51	0.87
541	1	Uranium-238	1001.00	45.50	36.14	123.58	133.47	12.51
<b>541</b>	<b>1</b>	<b>Totals</b>		<b>54.29</b>	<b>40.19</b>	<b>139.34</b>	<b>151.73</b>	<b>13.83</b>
561	1	Cobalt-60	0.07	0.15	0.21	0.88	0.88	0.07
561	1	Neptunium-237	0.03	0.01	0.01	0.03	0.03	0.00
561	1	Uranium-234	7.84	0.20	0.03	0.08	0.16	0.01
561	1	Uranium-235	1.37	0.17	0.19	0.81	0.82	0.07
561	1	Uranium-238	106.50	4.84	3.84	13.15	14.20	1.33
<b>561</b>	<b>1</b>	<b>Totals</b>		<b>5.38</b>	<b>4.28</b>	<b>14.94</b>	<b>16.08</b>	<b>1.48</b>

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EPC = exposure point concentration

Table D.38. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
561	2	Cesium-137	0.41	0.19	0.26	1.07	1.07	0.09
561	2	Cobalt-60	0.03	0.06	0.08	0.34	0.34	0.03
561	2	Neptunium-237	0.05	0.03	0.01	0.05	0.05	0.00
561	2	Uranium-234	40.63	1.02	0.15	0.42	0.82	0.03
561	2	Uranium-235	7.09	0.89	1.00	4.20	4.25	0.35
561	2	Uranium-238	400.30	18.20	14.45	49.42	53.37	5.00
<b>561</b>	<b>2</b>	<b>Totals</b>		<b>20.39</b>	<b>15.95</b>	<b>55.49</b>	<b>59.91</b>	<b>5.51</b>
562	1	Uranium-238	2.73	0.12	0.10	0.34	0.36	0.03
<b>562</b>	<b>1</b>	<b>Totals</b>		<b>0.12</b>	<b>0.10</b>	<b>0.34</b>	<b>0.36</b>	<b>0.03</b>
562	2	Uranium-234	53.40	1.35	0.19	0.55	1.08	0.05
562	2	Uranium-235	8.96	1.13	1.27	5.30	5.37	0.44
562	2	Uranium-238	581.00	26.41	20.97	71.73	77.47	7.26
<b>562</b>	<b>2</b>	<b>Totals</b>		<b>28.88</b>	<b>22.44</b>	<b>77.58</b>	<b>83.91</b>	<b>7.75</b>
562	3	Uranium-235	0.16	0.02	0.02	0.10	0.10	0.01
562	3	Uranium-238	10.90	0.50	0.39	1.35	1.45	0.14
<b>562</b>	<b>3</b>	<b>Totals</b>		<b>0.52</b>	<b>0.42</b>	<b>1.44</b>	<b>1.55</b>	<b>0.14</b>
562	4	Uranium-238	2.24	0.10	0.08	0.28	0.30	0.03
<b>562</b>	<b>4</b>	<b>Totals</b>		<b>0.10</b>	<b>0.08</b>	<b>0.28</b>	<b>0.30</b>	<b>0.03</b>
562	5	Uranium-234	8.57	0.22	0.03	0.09	0.17	0.01
562	6	Uranium-234	40.10	1.01	0.15	0.41	0.81	0.03
562	5	Uranium-235	0.95	0.12	0.13	0.56	0.57	0.05
562	6	Uranium-235	6.81	0.86	0.96	4.03	4.08	0.34
562	5	Uranium-238	62.40	2.84	2.25	7.70	8.32	0.78
562	6	Uranium-238	361.64	16.44	13.06	44.65	48.22	4.52
<b>562</b>	<b>5</b>	<b>Totals</b>		<b>3.17</b>	<b>2.42</b>	<b>8.35</b>	<b>9.06</b>	<b>0.83</b>
<b>562</b>	<b>6</b>	<b>Totals</b>		<b>18.31</b>	<b>14.17</b>	<b>49.09</b>	<b>53.11</b>	<b>4.89</b>
563	1	Uranium-238	2.76	0.13	0.10	0.34	0.37	0.03
<b>563</b>	<b>1</b>	<b>Totals</b>		<b>0.13</b>	<b>0.10</b>	<b>0.34</b>	<b>0.37</b>	<b>0.03</b>
563	2	Cesium-137	0.65	0.30	0.40	1.69	1.69	0.14
563	2	Uranium-238	1.49	0.07	0.05	0.18	0.20	0.02
<b>563</b>	<b>2</b>	<b>Totals</b>		<b>0.37</b>	<b>0.46</b>	<b>1.88</b>	<b>1.89</b>	<b>0.16</b>
564	1	Cesium-137	0.62	0.29	0.39	1.62	1.62	0.14
564	1	Thorium-230	5.01	0.24	0.04	0.10	0.20	0.01
564	1	Uranium-234	6.93	0.17	0.03	0.07	0.14	0.01
564	1	Uranium-235	0.39	0.05	0.05	0.23	0.23	0.02
564	1	Uranium-238	8.33	0.38	0.30	1.03	1.11	0.10

SWMU = solid waste management unit

EU = exposure unit

COPC = chemical of potential concern

EPC = exposure point concentration

Table D.38. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
<b>564</b>	<b>1</b>	<b>Totals</b>		<b>1.13</b>	<b>0.80</b>	<b>3.05</b>	<b>3.30</b>	<b>0.27</b>
567	4	Uranium-238	1.05	0.05	0.04	0.13	0.14	0.01
<b>567</b>	<b>4</b>	<b>Totals</b>		<b>0.05</b>	<b>0.04</b>	<b>0.13</b>	<b>0.14</b>	<b>0.01</b>
14	1	Americium-241	1.27	0.42	0.07	0.20	0.37	0.02
14	1	Neptunium-237	0.21	0.12	0.05	0.21	0.25	0.02
14	1	Technetium-99	406.00	0.06	0.02	0.06	0.08	0.01
14	1	Uranium-238	1.69	0.08	0.06	0.21	0.23	0.02
<b>14</b>	<b>1</b>	<b>Totals</b>		<b>0.67</b>	<b>0.20</b>	<b>0.69</b>	<b>0.92</b>	<b>0.06</b>
14	2	Neptunium-237	0.77	0.42	0.20	0.77	0.89	0.06
14	2	Thorium-230	5.98	0.29	0.04	0.12	0.24	0.01
14	2	Uranium-234	32.40	0.82	0.12	0.33	0.65	0.03
14	2	Uranium-235	2.00	0.25	0.28	1.18	1.20	0.10
14	2	Uranium-238	56.10	2.55	2.03	6.93	7.48	0.70
<b>14</b>	<b>2</b>	<b>Totals</b>		<b>4.33</b>	<b>2.67</b>	<b>9.33</b>	<b>10.46</b>	<b>0.90</b>
14	3	Uranium-238	1.50	0.07	0.05	0.19	0.20	0.02
<b>14</b>	<b>3</b>	<b>Totals</b>		<b>0.07</b>	<b>0.05</b>	<b>0.19</b>	<b>0.20</b>	<b>0.02</b>
14	4	Neptunium-237	2.68	1.46	0.69	2.68	3.09	0.22
14	4	Thorium-230	8.33	0.41	0.06	0.17	0.33	0.01
14	4	Uranium-234	113.00	2.85	0.41	1.16	2.28	0.10
14	4	Uranium-235	8.00	1.01	1.13	4.73	4.79	0.39
14	4	Uranium-238	169.00	7.68	6.10	20.86	22.53	2.11
<b>14</b>	<b>4</b>	<b>Totals</b>		<b>13.40</b>	<b>8.39</b>	<b>29.60</b>	<b>33.02</b>	<b>2.84</b>
14	5	Neptunium-237	1.74	0.95	0.45	1.74	2.01	0.15
14	5	Technetium-99	101.00	0.01	0.00	0.01	0.02	0.00
14	5	Thorium-230	13.90	0.68	0.10	0.28	0.55	0.02
14	5	Uranium-234	52.20	1.31	0.19	0.53	1.05	0.04
14	5	Uranium-235	3.33	0.42	0.47	1.97	1.99	0.16
14	5	Uranium-238	94.20	4.28	3.40	11.63	12.56	1.18
<b>14</b>	<b>5</b>	<b>Totals</b>		<b>7.66</b>	<b>4.61</b>	<b>16.17</b>	<b>18.18</b>	<b>1.56</b>
14	6	Neptunium-237	2.65	1.44	0.68	2.65	3.06	0.22
14	6	Uranium-234	34.10	0.86	0.12	0.35	0.69	0.03
14	6	Uranium-235	2.27	0.29	0.32	1.34	1.36	0.11
14	6	Uranium-238	50.80	2.31	1.83	6.27	6.77	0.64
<b>14</b>	<b>6</b>	<b>Totals</b>		<b>4.89</b>	<b>2.96</b>	<b>10.61</b>	<b>11.88</b>	<b>1.00</b>

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

Table D.38. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
14	7	Neptunium-237	1.49	0.81	0.38	1.49	1.72	0.12
14	7	Uranium-234	12.80	0.32	0.05	0.13	0.26	0.01
14	7	Uranium-235	0.96	0.12	0.14	0.57	0.57	0.05
14	7	Uranium-238	21.30	0.97	0.77	2.63	2.84	0.27
<b>14</b>	<b>7</b>	<b>Totals</b>		<b>2.22</b>	<b>1.33</b>	<b>4.82</b>	<b>5.39</b>	<b>0.45</b>
14	8	Neptunium-237	0.88	0.48	0.23	0.88	1.02	0.07
14	8	Uranium-235	0.24	0.03	0.03	0.14	0.14	0.01
14	8	Uranium-238	5.92	0.27	0.21	0.73	0.79	0.07
<b>14</b>	<b>8</b>	<b>Totals</b>		<b>0.78</b>	<b>0.47</b>	<b>1.75</b>	<b>1.95</b>	<b>0.16</b>
14	9	Cesium-137	0.45	0.21	0.28	1.19	1.19	0.10
14	9	Neptunium-237	10.93	5.94	2.80	10.93	12.62	0.91
14	9	Technetium-99	195.90	0.03	0.01	0.03	0.04	0.00
14	9	Uranium-234	832.10	20.96	3.03	8.53	16.78	0.71
14	9	Uranium-235	54.55	6.88	7.73	32.28	32.66	2.69
14	9	Uranium-238	1200.00	54.55	43.32	148.15	160.00	15.00
<b>14</b>	<b>9</b>	<b>Totals</b>		<b>88.56</b>	<b>57.17</b>	<b>201.10</b>	<b>223.29</b>	<b>19.41</b>
14	10	Neptunium-237	2.64	1.43	0.68	2.64	3.05	0.22
14	10	Uranium-234	24.20	0.61	0.09	0.25	0.49	0.02
14	10	Uranium-235	1.76	0.22	0.25	1.04	1.05	0.09
14	10	Uranium-238	40.90	1.86	1.48	5.05	5.45	0.51
<b>14</b>	<b>10</b>	<b>Totals</b>		<b>4.13</b>	<b>2.49</b>	<b>8.98</b>	<b>10.04</b>	<b>0.84</b>
518	1	Uranium-235	0.07	0.01	0.01	0.04	0.04	0.00
518	1	Uranium-238	1.51	0.07	0.05	0.19	0.20	0.02
<b>518</b>	<b>1</b>	<b>Totals</b>		<b>0.08</b>	<b>0.06</b>	<b>0.23</b>	<b>0.24</b>	<b>0.02</b>
520	1	Cesium-137	0.96	0.45	0.60	2.52	2.52	0.21
520	1	Neptunium-237	0.66	0.36	0.17	0.66	0.76	0.05
520	1	Thorium-230	11.34	0.55	0.08	0.23	0.45	0.02
520	1	Uranium-235	0.13	0.02	0.02	0.07	0.08	0.01
520	1	Uranium-238	3.93	0.18	0.14	0.49	0.52	0.05
<b>520</b>	<b>1</b>	<b>Totals</b>		<b>1.55</b>	<b>1.01</b>	<b>3.96</b>	<b>4.32</b>	<b>0.34</b>
520	2	Neptunium-237	0.07	0.04	0.02	0.07	0.09	0.01
520	2	Uranium-238	1.78	0.08	0.06	0.22	0.24	0.02
<b>520</b>	<b>2</b>	<b>Totals</b>		<b>0.12</b>	<b>0.08</b>	<b>0.29</b>	<b>0.32</b>	<b>0.03</b>
520	3	Uranium-238	1.57	0.07	0.06	0.19	0.21	0.02
<b>520</b>	<b>3</b>	<b>Totals</b>		<b>0.07</b>	<b>0.06</b>	<b>0.19</b>	<b>0.21</b>	<b>0.02</b>

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

Table D.38. Surface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)	Industrial Worker Dose (mrem/yr)	Adult Resident Dose (mrem/yr)	Child Resident Dose (mrem/yr)	Teen Recreator Dose (mrem/yr)
520	4	Neptunium-237	0.74	0.40	0.19	0.74	0.85	0.06
520	4	Uranium-235	0.24	0.03	0.03	0.14	0.14	0.01
520	4	Uranium-238	6.26	0.28	0.23	0.77	0.83	0.08
<b>520</b>	<b>4</b>	<b>Totals</b>		<b>0.72</b>	<b>0.45</b>	<b>1.66</b>	<b>1.83</b>	<b>0.15</b>
520	5	Neptunium-237	0.16	0.08	0.04	0.16	0.18	0.01
520	5	Uranium-238	1.45	0.07	0.05	0.18	0.19	0.02
<b>520</b>	<b>5</b>	<b>Totals</b>		<b>0.15</b>	<b>0.09</b>	<b>0.33</b>	<b>0.37</b>	<b>0.03</b>
81	1	Uranium-238	2.29	0.10	0.08	0.28	0.30	0.03
<b>81</b>	<b>1</b>	<b>Totals</b>		<b>0.10</b>	<b>0.08</b>	<b>0.28</b>	<b>0.30</b>	<b>0.03</b>
156	1	Uranium-238	2.19	0.10	0.08	0.27	0.29	0.03
<b>156</b>	<b>1</b>	<b>Totals</b>		<b>0.10</b>	<b>0.08</b>	<b>0.27</b>	<b>0.29</b>	<b>0.03</b>
219	1	Neptunium-237	0.33	0.18	0.08	0.33	0.38	0.03
219	1	Uranium-235	0.19	0.02	0.03	0.11	0.11	0.01
219	1	Uranium-238	4.40	0.20	0.16	0.54	0.59	0.06
<b>219</b>	<b>1</b>	<b>Totals</b>		<b>0.40</b>	<b>0.27</b>	<b>0.99</b>	<b>1.08</b>	<b>0.09</b>
488	1	Cesium-137	0.52	0.24	0.33	1.36	1.36	0.11
488	1	Uranium-235	0.15	0.02	0.02	0.09	0.09	0.01
488	1	Uranium-238	4.54	0.21	0.16	0.56	0.61	0.06
<b>488</b>	<b>1</b>	<b>Totals</b>		<b>0.47</b>	<b>0.51</b>	<b>2.01</b>	<b>2.06</b>	<b>0.18</b>

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Table D.39. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)
1	1	Cesium-137	0.59	0.27
1	1	Neptunium-237	0.40	0.22
1	1	Plutonium-239/240	6.14	1.93
1	1	Thorium-230	44.01	2.15
1	1	Uranium-235	0.11	0.01
1	1	Uranium-238	1.97	0.09
<b>1</b>	<b>1</b>	<b>Totals</b>		<b>4.67</b>
1	3	Uranium-238	1.73	0.08
<b>1</b>	<b>3</b>	<b>Totals</b>		<b>0.08</b>
1	4	Cesium-137	0.34	0.16
1	4	Cobalt-60	0.02	0.05
1	4	Thorium-230	5.03	0.25
<b>1</b>	<b>4</b>	<b>Totals</b>		<b>0.45</b>
99	1	Cobalt-60	0.01	0.03
99	1	Uranium-238	0.95	0.04
<b>99</b>	<b>1</b>	<b>Totals</b>		<b>0.07</b>
194	2	Uranium-238	1.24	0.06
<b>194</b>	<b>2</b>	<b>Totals</b>		<b>0.06</b>
194	3	Cesium-137	0.24	0.11
194	3	Uranium-238	1.16	0.05
<b>194</b>	<b>3</b>	<b>Totals</b>		<b>0.16</b>
194	4	Cesium-137	0.14	0.07
194	4	Uranium-238	1.02	0.05
<b>194</b>	<b>4</b>	<b>Totals</b>		<b>0.11</b>
194	5	Uranium-238	1.11	0.05
<b>194</b>	<b>5</b>	<b>Totals</b>		<b>0.05</b>
194	6	Uranium-238	1.12	0.05
<b>194</b>	<b>6</b>	<b>Totals</b>		<b>0.05</b>
194	8	Cesium-137	0.28	0.13
194	8	Uranium-238	1.18	0.05
<b>194</b>	<b>8</b>	<b>Totals</b>		<b>0.18</b>
194	10	Cesium-137	0.58	0.27
194	10	Uranium-238	1.49	0.07
<b>194</b>	<b>10</b>	<b>Totals</b>		<b>0.34</b>
194	17	Cesium-137	0.25	0.12
<b>194</b>	<b>17</b>	<b>Totals</b>		<b>0.12</b>
194	22	Cesium-137	0.16	0.08
<b>194</b>	<b>22</b>	<b>Totals</b>		<b>0.08</b>
194	23	Cesium-137	0.28	0.13
<b>194</b>	<b>23</b>	<b>Totals</b>		<b>0.13</b>
194	24	Cesium-137	0.21	0.10
<b>194</b>	<b>24</b>	<b>Totals</b>		<b>0.10</b>
194	31	Cesium-137	0.57	0.27
194	31	Uranium-238	1.72	0.08
<b>194</b>	<b>31</b>	<b>Totals</b>		<b>0.34</b>

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Table D.39. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)
196	1	Neptunium-237	0.31	0.17
196	1	Uranium-238	1.54	0.07
<b>196</b>	<b>1</b>	<b>Totals</b>		<b>0.24</b>
196	2	Uranium-238	2.21	0.10
<b>196</b>	<b>2</b>	<b>Totals</b>		<b>0.10</b>
489	1	Uranium-238	1.47	0.07
<b>489</b>	<b>1</b>	<b>Totals</b>		<b>0.07</b>
531	1	Uranium-235	0.14	0.02
531	1	Uranium-238	3.48	0.16
<b>531</b>	<b>1</b>	<b>Totals</b>		<b>0.18</b>
200	1	Cesium-137	0.47	0.22
200	1	Uranium-235	0.11	0.01
200	1	Uranium-238	2.79	0.13
<b>200</b>	<b>1</b>	<b>Totals</b>		<b>0.36</b>
212	1	Cesium-137	0.60	0.28
212	1	Cobalt-60	0.01	0.02
212	1	Neptunium-237	4.00	2.17
212	1	Plutonium-239/240	6.71	2.11
212	1	Thorium-230	260.00	12.68
212	1	Uranium-235	0.21	0.03
212	1	Uranium-238	3.17	0.14
<b>212</b>	<b>1</b>	<b>Totals</b>		<b>17.44</b>
213	1	Uranium-238	2.33	0.11
<b>213</b>	<b>1</b>	<b>Totals</b>		<b>0.11</b>
216	1	Cesium-137	0.41	0.19
216	1	Uranium-238	1.33	0.06
<b>216</b>	<b>1</b>	<b>Totals</b>		<b>0.25</b>
217	1	Uranium-238	1.09	0.05
<b>217</b>	<b>1</b>	<b>Totals</b>		<b>0.05</b>
221	1	Uranium-238	1.93	0.09
<b>221</b>	<b>1</b>	<b>Totals</b>		<b>0.09</b>
222	1	Cesium-137	0.30	0.14
222	1	Cobalt-60	0.01	0.01
222	1	Uranium-234	7.04	0.18
222	1	Uranium-235	0.71	0.09
222	1	Uranium-238	15.39	0.70
<b>222</b>	<b>1</b>	<b>Totals</b>		<b>1.12</b>
227	1	Cesium-137	0.17	0.08
227	1	Cobalt-60	0.02	0.03
227	1	Neptunium-237	0.80	0.43
227	1	Technetium-99	41.79	0.01
227	1	Uranium-234	13.99	0.35
227	1	Uranium-235	1.35	0.17
227	1	Uranium-238	41.80	1.90
<b>227</b>	<b>1</b>	<b>Totals</b>		<b>2.97</b>

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**Table D.39. Subsurface Soil Dose Assessment (Continued)**

<b>SWMU</b>	<b>EU</b>	<b>COPC</b>	<b>EPC (pCi/g)</b>	<b>Outdoor Worker Dose (mrem/yr)</b>
227	2	Cobalt-60	0.01	0.03
227	2	Neptunium-237	0.04	0.02
227	2	Uranium-238	1.57	0.07
<b>227</b>	<b>2</b>	<b>Totals</b>		<b>0.12</b>
228	1	Cobalt-60	0.01	0.03
228	1	Neptunium-237	0.80	0.43
228	1	Uranium-235	0.18	0.02
228	1	Uranium-238	3.77	0.17
<b>228</b>	<b>1</b>	<b>Totals</b>		<b>0.66</b>
27	1	Cobalt-60	0.01	0.02
<b>27</b>	<b>1</b>	<b>Totals</b>		<b>0.02</b>
76	1	Uranium-238	1.45	0.07
<b>76</b>	<b>1</b>	<b>Totals</b>		<b>0.07</b>
165	1	Cesium-137	3.47	1.61
165	1	Neptunium-237	0.43	0.23
165	1	Plutonium-239/240	2.81	0.88
165	1	Thorium-230	6.02	0.29
165	1	Uranium-234	57.63	1.45
165	1	Uranium-235	2.06	0.26
165	1	Uranium-238	64.18	2.92
<b>165</b>	<b>1</b>	<b>Totals</b>		<b>7.65</b>
170	1	Cesium-137	0.34	0.16
170	1	Cobalt-60	0.01	0.02
170	1	Neptunium-237	0.12	0.06
170	1	Uranium-238	2.55	0.12
<b>170</b>	<b>1</b>	<b>Totals</b>		<b>0.36</b>
158	1	Neptunium-237	0.06	0.03
158	1	Uranium-235	0.14	0.02
158	1	Uranium-238	3.16	0.14
<b>158</b>	<b>1</b>	<b>Totals</b>		<b>0.19</b>
169	1	Cobalt-60	0.01	0.02
169	1	Uranium-234	6.55	0.16
169	1	Uranium-235	0.46	0.06
169	1	Uranium-238	8.12	0.37
<b>169</b>	<b>1</b>	<b>Totals</b>		<b>0.61</b>
19	1	Uranium-234	27.70	0.70
19	1	Uranium-235	1.30	0.16
19	1	Uranium-238	30.60	1.39
<b>19</b>	<b>1</b>	<b>Totals</b>		<b>2.25</b>
195	1	Cesium-137	0.37	0.17
<b>195</b>	<b>1</b>	<b>Totals</b>		<b>0.17</b>
195	5	Cesium-137	0.34	0.16
<b>195</b>	<b>5</b>	<b>Totals</b>		<b>0.16</b>
195	6	Cesium-137	0.23	0.11
<b>195</b>	<b>6</b>	<b>Totals</b>		<b>0.11</b>

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Table D.39. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)
195	8	Cesium-137	0.24	0.11
<b>195</b>	<b>8</b>	<b>Totals</b>		<b>0.11</b>
195	11	Cesium-137	0.21	0.10
<b>195</b>	<b>11</b>	<b>Totals</b>		<b>0.10</b>
195	15	Cesium-137	0.26	0.12
<b>195</b>	<b>15</b>	<b>Totals</b>		<b>0.12</b>
195	16	Cesium-137	0.29	0.14
<b>195</b>	<b>16</b>	<b>Totals</b>		<b>0.14</b>
195	17	Uranium-235	0.10	0.01
195	17	Uranium-238	1.75	0.08
<b>195</b>	<b>17</b>	<b>Totals</b>		<b>0.09</b>
486	1	Cesium-137	1.71	0.80
<b>486</b>	<b>1</b>	<b>Totals</b>		<b>0.80</b>
487	1	Cesium-137	1.38	0.64
<b>487</b>	<b>1</b>	<b>Totals</b>		<b>0.64</b>
492	1	Cesium-137	0.35	0.16
492	1	Cobalt-60	0.01	0.02
492	1	Neptunium-237	0.21	0.11
492	1	Uranium-234	53.90	1.36
492	1	Uranium-235	5.72	0.72
492	1	Uranium-238	383.00	17.41
<b>492</b>	<b>1</b>	<b>Totals</b>		<b>19.78</b>
493	1	Cesium-137	0.29	0.14
493	1	Cobalt-60	0.01	0.03
493	1	Neptunium-237	0.12	0.07
493	1	Uranium-235	0.17	0.02
493	1	Uranium-238	5.50	0.25
<b>493</b>	<b>1</b>	<b>Totals</b>		<b>0.50</b>
517	1	Cobalt-60	0.01	0.01
517	1	Neptunium-237	1.07	0.58
517	1	Uranium-235	0.16	0.02
517	1	Uranium-238	3.89	0.18
<b>517</b>	<b>1</b>	<b>Totals</b>		<b>0.79</b>
541	1	Americium-241	7.53	2.48
541	1	Cesium-137	0.97	0.45
541	1	Cobalt-60	0.01	0.02
541	1	Neptunium-237	0.06	0.03
541	1	Uranium-234	144.30	3.63
541	1	Uranium-235	22.56	2.84
541	1	Uranium-238	1111.00	50.50
<b>541</b>	<b>1</b>	<b>Totals</b>		<b>59.96</b>

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**Table D.39. Subsurface Soil Dose Assessment (Continued)**

<b>SWMU</b>	<b>EU</b>	<b>COPC</b>	<b>EPC (pCi/g)</b>	<b>Outdoor Worker Dose (mrem/yr)</b>
561	1	Cesium-137	0.25	0.12
561	1	Cobalt-60	0.07	0.15
561	1	Neptunium-237	0.03	0.01
561	1	Uranium-234	8.48	0.21
561	1	Uranium-235	1.43	0.18
561	1	Uranium-238	111.70	5.08
<b>561</b>	<b>1</b>	<b>Totals</b>		<b>5.76</b>
561	2	Cesium-137	0.40	0.19
561	2	Cobalt-60	0.03	0.07
561	2	Neptunium-237	0.05	0.03
561	2	Uranium-234	39.21	0.99
561	2	Uranium-235	6.79	0.86
561	2	Uranium-238	386.00	17.55
<b>561</b>	<b>2</b>	<b>Totals</b>		<b>19.67</b>
562	1	Cesium-137	0.45	0.21
562	1	Uranium-235	0.59	0.07
562	1	Uranium-238	44.20	2.01
<b>562</b>	<b>1</b>	<b>Totals</b>		<b>2.29</b>
562	2	Cesium-137	0.36	0.17
562	2	Uranium-234	53.40	1.35
562	2	Uranium-235	8.96	1.13
562	2	Uranium-238	581.00	26.41
<b>562</b>	<b>2</b>	<b>Totals</b>		<b>29.05</b>
562	3	Uranium-235	0.16	0.02
562	3	Uranium-238	10.90	0.50
<b>562</b>	<b>3</b>	<b>Totals</b>		<b>0.52</b>
562	4	Cesium-137	0.49	0.23
562	4	Uranium-238	2.42	0.11
<b>562</b>	<b>4</b>	<b>Totals</b>		<b>0.34</b>
562	5	Cesium-137	0.38	0.18
562	5	Uranium-234	8.57	0.22
562	5	Uranium-235	0.95	0.12
562	5	Uranium-238	62.40	2.84
<b>562</b>	<b>5</b>	<b>Totals</b>		<b>3.35</b>

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Table D.39. Subsurface Soil Dose Assessment (Continued)

SWMU	EU	COPC	EPC (pCi/g)	Outdoor Worker Dose (mrem/yr)
562	6	Uranium-234	40.10	1.01
562	6	Uranium-235	6.81	0.86
562	6	Uranium-238	361.64	16.44
<b>562</b>	<b>6</b>	<b>Totals</b>		<b>18.31</b>
563	1	Cesium-137	0.29	0.13
563	1	Neptunium-237	0.12	0.07
563	1	Uranium-238	2.96	0.13
<b>563</b>	<b>1</b>	<b>Totals</b>		<b>0.33</b>
563	2	Cesium-137	0.65	0.30
563	2	Uranium-238	1.49	0.07
<b>563</b>	<b>2</b>	<b>Totals</b>		<b>0.37</b>
564	1	Cesium-137	0.62	0.29
564	1	Thorium-230	5.01	0.24
564	1	Uranium-234	6.93	0.17
564	1	Uranium-235	0.39	0.05
564	1	Uranium-238	8.54	0.39
<b>564</b>	<b>1</b>	<b>Totals</b>		<b>1.14</b>
567	3	Uranium-238	1.72	0.08
<b>567</b>	<b>3</b>	<b>Totals</b>		<b>0.08</b>
567	4	Uranium-238	1.08	0.05
<b>567</b>	<b>4</b>	<b>Totals</b>		<b>0.05</b>
14	1	Americium-241	1.06	0.35
14	1	Cobalt-60	0.02	0.05
14	1	Neptunium-237	0.26	0.14
14	1	Technetium-99	406.00	0.06
14	1	Uranium-235	0.20	0.03
14	1	Uranium-238	6.24	0.28
<b>14</b>	<b>1</b>	<b>Totals</b>		<b>0.91</b>
14	2	Neptunium-237	1.70	0.92
14	2	Thorium-230	7.70	0.38
14	2	Uranium-234	48.09	1.21
14	2	Uranium-235	3.41	0.43
14	2	Uranium-238	89.62	4.07
<b>14</b>	<b>2</b>	<b>Totals</b>		<b>7.01</b>
14	3	Neptunium-237	0.16	0.09
14	3	Uranium-234	4.43	0.11
14	3	Uranium-235	0.25	0.03
14	3	Uranium-238	10.80	0.49
<b>14</b>	<b>3</b>	<b>Totals</b>		<b>0.72</b>
14	4	Neptunium-237	2.03	1.10
14	4	Thorium-230	5.43	0.26
14	4	Uranium-234	86.10	2.17
14	4	Uranium-235	6.10	0.77
14	4	Uranium-238	128.50	5.84
<b>14</b>	<b>4</b>	<b>Totals</b>		<b>10.15</b>

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**Table D.39. Subsurface Soil Dose Assessment (Continued)**

<b>SWMU</b>	<b>EU</b>	<b>COPC</b>	<b>EPC (pCi/g)</b>	<b>Outdoor Worker Dose (mrem/yr)</b>
14	5	Neptunium-237	1.74	0.95
14	5	Technetium-99	77.96	0.01
14	5	Thorium-230	10.89	0.53
14	5	Uranium-234	40.28	1.01
14	5	Uranium-235	2.57	0.32
14	5	Uranium-238	72.60	3.30
<b>14</b>	<b>5</b>	<b>Totals</b>		<b>6.13</b>
14	6	Neptunium-237	2.04	1.11
14	6	Uranium-234	25.92	0.65
14	6	Uranium-235	1.79	0.23
14	6	Uranium-238	41.10	1.87
<b>14</b>	<b>6</b>	<b>Totals</b>		<b>3.85</b>
14	7	Neptunium-237	1.16	0.63
14	7	Uranium-234	9.86	0.25
14	7	Uranium-235	0.73	0.09
14	7	Uranium-238	16.04	0.73
<b>14</b>	<b>7</b>	<b>Totals</b>		<b>1.70</b>
14	8	Neptunium-237	0.68	0.37
14	8	Uranium-235	0.16	0.02
14	8	Uranium-238	3.97	0.18
<b>14</b>	<b>8</b>	<b>Totals</b>		<b>0.57</b>
14	9	Cesium-137	0.45	0.21
14	9	Neptunium-237	10.93	5.94
14	9	Technetium-99	195.90	0.03
14	9	Uranium-234	832.10	20.96
14	9	Uranium-235	54.55	6.88
14	9	Uranium-238	1200.00	54.55
<b>14</b>	<b>9</b>	<b>Totals</b>		<b>88.56</b>
14	10	Neptunium-237	2.05	1.11
14	10	Uranium-234	19.20	0.48
14	10	Uranium-235	1.40	0.18
14	10	Uranium-238	26.84	1.22
<b>14</b>	<b>10</b>	<b>Totals</b>		<b>2.99</b>
518	1	Uranium-235	0.07	0.01
518	1	Uranium-238	1.51	0.07
<b>518</b>	<b>1</b>	<b>Totals</b>		<b>0.08</b>
520	1	Cesium-137	0.85	0.40
520	1	Neptunium-237	0.54	0.29
520	1	Thorium-230	10.21	0.50
520	1	Uranium-235	0.12	0.02
520	1	Uranium-238	3.69	0.17
<b>520</b>	<b>1</b>	<b>Totals</b>		<b>1.37</b>

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**Table D.39. Subsurface Soil Dose Assessment (Continued)**

<b>SWMU</b>	<b>EU</b>	<b>COPC</b>	<b>EPC (pCi/g)</b>	<b>Outdoor Worker Dose (mrem/yr)</b>
520	2	Neptunium-237	0.06	0.03
520	2	Uranium-238	1.58	0.07
<b>520</b>	<b>2</b>	<b>Totals</b>		<b>0.10</b>
520	3	Uranium-238	1.34	0.06
<b>520</b>	<b>3</b>	<b>Totals</b>		<b>0.06</b>
520	4	Neptunium-237	0.74	0.40
520	4	Uranium-235	0.24	0.03
520	4	Uranium-238	6.26	0.28
<b>520</b>	<b>4</b>	<b>Totals</b>		<b>0.72</b>
520	5	Neptunium-237	0.16	0.08
520	5	Uranium-238	1.45	0.07
<b>520</b>	<b>5</b>	<b>Totals</b>		<b>0.15</b>
81	1	Uranium-238	2.29	0.10
<b>81</b>	<b>1</b>	<b>Totals</b>		<b>0.10</b>
156	1	Uranium-238	2.19	0.10
<b>156</b>	<b>1</b>	<b>Totals</b>		<b>0.10</b>
219	1	Neptunium-237	0.33	0.18
219	1	Uranium-235	0.19	0.02
219	1	Uranium-238	4.40	0.20
<b>219</b>	<b>1</b>	<b>Totals</b>		<b>0.40</b>
488	1	Cesium-137	0.52	0.24
488	1	Uranium-235	0.15	0.02
488	1	Uranium-238	4.54	0.21
<b>488</b>	<b>1</b>	<b>Totals</b>		<b>0.47</b>

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