Table D8.54. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 211-A

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker	**6.5E-06**	Neptunium-237	20%	Ingestion	9%	**<1**	*No COCs		Ingestion	
(surface soil)		Uranium-238	62%	Dermal	2%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	89%					
Future Industrial Worker	**1.2E-04**	PAH, Total	1%	Ingestion	9%	**2.7**	Antimony	62%	Ingestion	4%
(surface soil)		PCB, Total	1%	Dermal	2%		Silver	8%	Dermal	96%
		Cesium-137	13%	Inhalation	0%		Vanadium	22%	Inhalation	0%
		Neptunium-237	20%	External exposure	88%					
		Uranium-234	3%							
		Uranium-238	62%							
Outdoor Worker	**1.6E-04**	PAH, Total	1%	Ingestion	50%	**2.8**	Antimony	61%	Ingestion	30%
(surface soil)		PCB, Total	1%	Dermal	1%		Iron	7%	Dermal	69%
		Cesium-137	7%	Inhalation	0%		Silver	6%	Inhalation	0%
		Neptunium-237	12%	External exposure	49%		Thallium	5%		
		Uranium-234	14%				Vanadium	18%		
		Uranium-238	64%							
Outdoor Worker	**2.0E-04**	Arsenic	10%	Ingestion	58%	**5.1**	Antimony	50%	Ingestion	39%
(surface and subsurface		PAH, Total	1%	Dermal	13%		Arsenic	2%	Dermal	61%
soil)		PCB, Total	22%	Inhalation	0%		Cobalt	14%	Inhalation	0%
		Uranium-234	11%	External exposure	28%		Iron	6%		
		Uranium-235	5%				Nickel	9%		
		Uranium-238	51%				Thallium	5%		
							Vanadium	10%		
Excavation Worker	**3.9E-05**	Arsenic	10%	Ingestion	58%	**5.1**	Antimony	50%	Ingestion	39%
(surface and subsurface		PCB, Total	22%	Dermal	13%		Arsenic	2%	Dermal	61%
soil)		Uranium-234	11%	Inhalation	0%		Cobalt	14%	Inhalation	0%
		Uranium-235	5%	External exposure	28%		Iron	6%		
		Uranium-238	51%				Nickel	9%		
							Thallium	5%		
							Vanadium	10%		

Table D8.54. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 211-A (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Future Adult Resident (surface soil)	**3.8E-04**	PAH, Total	1%	Ingestion	11%	**6.6**	Antimony	62%	Ingestion	5%
		PCB, Total	1%	Dermal	2%		Barium	2%	Dermal	95%
		Cesium-137	12%	Inhalation	0%		Iron	3%	Inhalation	0%
		Neptunium-237	20%	External exposure	87%		Silver	8%		
		Uranium-234	3%				Thallium	2%		
		Uranium-238	62%				Vanadium	22%		
Future Child Resident (surface soil)	See Future Adult Resident					**18.5**	Antimony	62%	Ingestion	19%
							Barium	2%	Dermal	81%
							Iron	5%	Inhalation	0%
							Silver	7%		
							Thallium	4%		
							Uranium	1%		
							Vanadium	20%		
Future Adult Recreational User (surface soil)	**6.0E-05**	PAH, Total	3%	Ingestion	25%	**2.0**	Antimony	62%	Ingestion	5%
		PCB, Total	3%	Dermal	5%		Silver	8%	Dermal	95%
		Cesium-137	10%	Inhalation	0%		Vanadium	22%	Inhalation	0%
		Neptunium-237	16%	External exposure	70%					
		Uranium-234	7%							
		Uranium-238	60%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**6.1**	Antimony	62%	Ingestion	4%
							Barium	2%	Dermal	96%
							Iron	3%	Inhalation	0%
							Silver	8%		
							Thallium	2%		
							Vanadium	22%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**7.4**	Antimony	62%	Ingestion	19%
							Barium	2%	Dermal	81%
							Iron	5%	Inhalation	0%
							Silver	7%		
							Thallium	4%		
							Vanadium	20%		

Table D8.54. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 211-A (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI

Total ELCR and total HI represent total risk or hazard summed across all routes of exposure for all COPCs.

*No COCs = There are no COCs.

ELCR for Future Adult Resident and Future Child Resident are the combined lifetime scenario.

ELCR for Future Adult Recreational User, Future Teen Recreational User and Future Child Recreational User are the combined lifetime scenario.