Table D8.15. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 1

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker (surface soil)	**1.6E-06**	PAH, Total	66%	Ingestion	17%	**<1**	*No COCs		Ingestion	
				Dermal	80%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	3%					
Future Industrial Worker (surface soil)	**2.9E-05**	Arsenic	31%	Ingestion	17%	**3.1**	Antimony	63%	Ingestion	5%
		PAH, Total	66%	Dermal	80%		Nickel	26%	Dermal	95%
		Uranium-238	4%	Inhalation	0%				Inhalation	0%
				External exposure	3%					
Outdoor Worker (surface soil)	**5.3E-05**	Arsenic	47%	Ingestion	66%	**3.3**	Antimony	60%	Ingestion	33%
		PAH, Total	50%	Dermal	33%		Arsenic	5%	Dermal	67%
		Uranium-238	3%	Inhalation	0%		Iron	5%	Inhalation	0%
				External exposure	1%		Nickel	20%		
Outdoor Worker (surface and subsurface soil)	**4.7E-05**	Arsenic	56%	Ingestion	70%	**10.6**	Antimony	26%	Ingestion	51%
		PAH, Total	38%	Dermal	28%		Arsenic	2%	Dermal	49%
		Technetium-99	4%	Inhalation	0%		Cadmium	1%	Inhalation	0%
		Uranium-238	2%	External exposure	1%		Iron	2%		
							Manganese	6%		
							Nickel	7%		
							Thallium	51%		
							Vanadium	4%		
Excavation Worker (surface and subsurface soil)	**9.3E-06**	Arsenic	56%	Ingestion	70%	**10.6**	Antimony	26%	Ingestion	51%
		PAH, Total	38%	Dermal	28%		Arsenic	2%	Dermal	49%
				Inhalation	0%		Cadmium	1%	Inhalation	0%
				External exposure	1%		Iron	2%		
							Manganese	6%		
							Nickel	7%		
							Thallium	51%		
							Vanadium	4%		

Table D8.15. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 1 (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	**1.3E-04**	Arsenic	37%	Ingestion	36%	**7.5**	Antimony	63%	Ingestion	6%
(surface soil)		PAH, Total	60%	Dermal	61%		Arsenic	2%	Dermal	94%
		Uranium-238	3%	Inhalation	0%		Iron	3%	Inhalation	0%
				External exposure	3%		Nickel	26%		
							Silver	3%		
							Thallium	2%		
Future Child Resident	See Future Adult Resident					**21.5**	Antimony	61%	Ingestion	21%
(surface soil)							Arsenic	4%	Dermal	79%
							Barium	1%	Inhalation	0%
							Cadmium	1%		
							Copper	0%		
							Iron	4%		
							Nickel	23%		
							Silver	2%		
							Thallium	2%		
							Uranium	1%		

Table D8.15. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 1 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Future Adult Recreational User (surface soil)	**5.5E-05**	Arsenic	37%	Ingestion	34%	**2.3**	Antimony	63%	Ingestion	6%
		PAH, Total	62%	Dermal	65%		Nickel	26%	Dermal	94%
				Inhalation	0%				Inhalation	0%
				External exposure	1%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**6.9**	Antimony	63%	Ingestion	5%
							Arsenic	2%	Dermal	95%
							Iron	3%	Inhalation	0%
							Nickel	26%		
							Silver	3%		
							Thallium	1%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**8.6**	Antimony	61%	Ingestion	21%
							Arsenic	4%	Dermal	79%
							Cadmium	1%	Inhalation	0%
							Iron	4%		
							Nickel	23%		
							Silver	2%		
							Thallium	2%		

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.

Table D8.16. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 2

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker (surface soil)	**2.5E-06**	PAH, Total	53%	Ingestion	16%	**<1**	*No COCs		Ingestion	
				Dermal	67%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	17%					
Future Industrial Worker (surface soil)	**4.5E-05**	Arsenic	26%	Ingestion	16%	**4.7**	Antimony	54%	Ingestion	4%
		PAH, Total	53%	Dermal	67%		Iron	2%	Dermal	96%
		PCB, Total	2%	Inhalation	0%		Mercury	14%	Inhalation	0%
		Uranium-235	2%	External exposure	17%		Nickel	25%		
		Uranium-238	16%							
Outdoor Worker (surface soil)	**7.9E-05**	Arsenic	41%	Ingestion	65%	**4.8**	Antimony	53%	Ingestion	30%
		PAH, Total	41%	Dermal	28%		Arsenic	4%	Dermal	70%
		PCB, Total	2%	Inhalation	0%		Iron	5%	Inhalation	0%
		Uranium-234	3%	External exposure	7%		Mercury	12%		
		Uranium-238	13%				Nickel	21%		
							Uranium	4%		
Outdoor Worker (surface and subsurface soil)	**8.1E-05**	Arsenic	40%	Ingestion	64%	**8.2**	Antimony	34%	Ingestion	25%
		PAH, Total	40%	Dermal	27%		Arsenic	2%	Dermal	75%
		PCB, Total	2%	Inhalation	0%		Iron	3%	Inhalation	0%
		Neptunium-237	2%	External exposure	9%		Manganese	18%		
		Uranium-234	3%				Mercury	7%		
		Uranium-238	13%				Nickel	23%		
							Thallium	2%		
							Uranium	2%		
							Vanadium	6%		

Table D8.16. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 2 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Excavation Worker (surface and subsurface soil)	**1.6E-05**	Arsenic	40%	Ingestion	64%	**8.2**	Antimony	34%	Ingestion	25%
		PAH, Total	40%	Dermal	27%		Arsenic	2%	Dermal	75%
		Uranium-238	13%	Inhalation	0%		Iron	3%	Inhalation	0%
				External exposure	9%		Manganese	18%		
							Mercury	7%		
							Nickel	23%		
							Thallium	2%		
							Uranium	2%		
							Vanadium	6%		
Future Adult Resident (surface soil)	**1.9E-04**	Arsenic	33%	Ingestion	33%	**11.5**	Antimony	54%	Ingestion	5%
		PAH, Total	50%	Dermal	53%		Arsenic	2%	Dermal	95%
		PCB, Total	2%	Inhalation	0%		Barium	1%	Inhalation	0%
		Uranium-234	1%	External exposure	13%		Iron	2%		
		Uranium-235	2%				Mercury	14%		
		Uranium-238	13%				Nickel	25%		
							Uranium	2%		
Future Child Resident (surface soil)	See Future Adult Resident					**32.1**	Antimony	54%	Ingestion	19%
							Arsenic	3%	Dermal	81%
							Barium	1%	Inhalation	0%
							Iron	4%		
							Mercury	13%		
							Nickel	23%		
							Uranium	3%		

Table D8.16. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 2 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Future Adult Recreational User (surface soil)	**7.5E-05**	Arsenic	35%	Ingestion	34%	**3.4**	Antimony	54%	Ingestion	5%
		PAH, Total	56%	Dermal	62%		Mercury	14%	Dermal	95%
		PCB, Total	3%	Inhalation	0%		Nickel	25%	Inhalation	0%
		Uranium-238	5%	External exposure	4%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**10.6**	Antimony	54%	Ingestion	4%
							Arsenic	1%	Dermal	96%
							Iron	2%	Inhalation	0%
							Mercury	14%		
							Nickel	25%		
							Uranium	2%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**12.9**	Antimony	54%	Ingestion	19%
							Arsenic	3%	Dermal	81%
							Barium	1%	Inhalation	0%
							Iron	4%		
							Mercury	13%		
							Nickel	23%		
							Uranium	3%		

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.

Table D8.17. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 3

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker	**3.6E-05**	Arsenic	3%	Ingestion	11%	**<1**	*No COCs		Ingestion	
(surface soil)		PCB, Total	3%	Dermal	7%				Dermal	
		Uranium-235	6%	Inhalation	0%				Inhalation	
		Uranium-238	82%	External exposure	81%					
Future Industrial Worker	**6.4E-04**	Arsenic	3%	Ingestion	11%	**11.2**	Antimony	16%	Ingestion	4%
(surface soil)		PAH, Total	3%	Dermal	7%		Arsenic	1%	Dermal	96%
		PCB, Total	3%	Inhalation	0%		Cobalt	2%	Inhalation	0%
		Neptunium-237	2%	External exposure	81%		Iron	2%		
		Uranium-234	1%				Manganese	18%		
		Uranium-235	6%				Mercury	7%		
		Uranium-238	82%				Molybdenum	1%		
							Nickel	45%		
							Uranium	1%		
							Vanadium	4%		
Outdoor Worker	**9.3E-04**	Arsenic	6%	Ingestion	55%	**11.0**	Antimony	17%	Ingestion	28%
(surface soil)		PAH, Total	2%	Dermal	4%		Arsenic	3%	Dermal	72%
		PCB, Total	3%	Inhalation	0%		Cobalt	4%	Inhalation	0%
		Neptunium-237	1%	External exposure	41%		Copper	2%		
		Technetium-99	1%				Iron	5%		
		Thorium-230	0%				Manganese	15%		
		Uranium-234	5%				Mercury	6%		
		Uranium-235	4%				Molybdenum	2%		
		Uranium-238	78%				Nickel	38%		
							Thallium	1%		
							Uranium	3%		
							Vanadium	3%		

Table D8.17. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 3 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Outdoor Worker	**1.2E-03**	Arsenic	6%	Ingestion	54%	**19.6**	Antimony	15%	Ingestion	43%
(surface and subsurface		PAH, Total	1%	Dermal	4%		Arsenic	2%	Dermal	57%
soil)		PCB, Total	5%	Inhalation	0%		Cobalt	2%	Inhalation	0%
		Neptunium-237	1%	External exposure	41%		Copper	1%		
		Technetium-99	0%				Iron	3%		
		Thorium-230	0%				Manganese	9%		
		Uranium-234	5%				Mercury	7%		
		Uranium-235	4%				Molybdenum	1%		
		Uranium-238	76%				Nickel	21%		
							Thallium	35%		
							Uranium	2%		
							Vanadium	2%		
Excavation Worker	**2.4E-04**	Arsenic	6%	Ingestion	54%	**19.6**	Antimony	15%	Ingestion	43%
(surface and subsurface		PAH, Total	1%	Dermal	4%		Arsenic	2%	Dermal	57%
soil)		PCB, Total	5%	Inhalation	0%		Cobalt	2%	Inhalation	0%
		Neptunium-237	1%	External exposure	41%		Copper	1%		
		Uranium-234	5%				Iron	3%		
		Uranium-235	4%				Manganese	9%		
		Uranium-238	76%				Mercury	7%		
							Molybdenum	1%		
							Nickel	21%		
							Thallium	35%		
							Uranium	2%		
							Vanadium	2%		

Table D8.17. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 3 (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	**2.2E-03**	Arsenic	5%	Ingestion	14%	**27.4**	Antimony	16%	Ingestion	4%
(surface soil)		PAH, Total	3%	Dermal	7%		Arsenic	1%	Dermal	95%
		PCB, Total	4%	Inhalation	0%		Cobalt	2%	Inhalation	0%
		Neptunium-237	2%	External exposure	78%		Copper	1%		
		Technetium-99	0%				Iron	2%		
		Thorium-230	0%				Manganese	18%		
		Uranium-234	1%				Mercury	7%		
		Uranium-235	6%				Molybdenum	1%		
		Uranium-238	79%				Nickel	45%		
							Silver	1%		
							Thallium	0%		
							Uranium	1%		
							Vanadium	4%		
Future Child Resident	See Future Adult Resident					**75.2**	Antimony	17%	Ingestion	17%
(surface soil)							Arsenic	2%	Dermal	83%
							Barium	0%	Inhalation	0%
							Cadmium	0%		
							Cobalt	3%		
							Copper	1%		
							Iron	4%		
							Manganese	16%		
							Mercury	6%		
							Molybdenum	2%		
							Nickel	41%		
							Silver	1%		
							Thallium	1%		
							Uranium	2%		
							Vanadium	4%		

Table D8.17. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 3 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Future Adult Recreational User (surface soil)	**4.1E-04**	Arsenic	11%	Ingestion	29%	**8.1**	Antimony	16%	Ingestion	4%
		PAH, Total	7%	Dermal	18%		Cobalt	2%	Dermal	96%
		PCB, Total	10%	Inhalation	0%		Iron	2%	Inhalation	0%
		Neptunium-237	1%	External exposure	52%		Manganese	18%		
		Uranium-234	2%				Mercury	7%		
		Uranium-235	4%				Nickel	45%		
		Uranium-238	65%				Uranium	1%		
							Vanadium	4%		
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**25.1**	Antimony	16%	Ingestion	4%
							Arsenic	1%	Dermal	96%
							Cobalt	2%	Inhalation	0%
							Copper	1%		
							Iron	2%		
							Manganese	18%		
							Mercury	7%		
							Molybdenum	1%		
							Nickel	45%		
							Silver	1%		
							Thallium	0%		
							Uranium	1%		
							Vanadium	4%		

Table D8.17. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 3 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**30.1**	Antimony	17%	Ingestion	17%
							Arsenic	2%	Dermal	83%
							Cobalt	3%	Inhalation	0%
							Copper	1%		
							Iron	4%		
							Manganese	16%		
							Mercury	6%		
							Molybdenum	2%		
							Nickel	41%		
							Silver	1%		
							Thallium	1%		
							Uranium	2%		
							Vanadium	4%		

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.

Table D8.18. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 4

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker	**8.9E-06**	Arsenic	15%	Ingestion	13%	**<1**	*No COCs		Ingestion	
(surface soil)		PAH, Total	12%	Dermal	80%				Dermal	
		PCB, Total	65%	Inhalation	0%				Inhalation	
				External exposure	7%					
Future Industrial Worker	**1.6E-04**	Arsenic	15%	Ingestion	13%	**14.7**	Antimony	13%	Ingestion	3%
(surface soil)		PAH, Total	12%	Dermal	80%		Arsenic	1%	Dermal	97%
		PCB, Total	65%	Inhalation	0%		Iron	1%	Inhalation	0%
		Neptunium-237	2%	External exposure	7%		Manganese	11%		
		Uranium-238	5%				Mercury	15%		
							Nickel	51%		
							Silver	2%		
							Vanadium	3%		
Outdoor Worker	**2.5E-04**	Arsenic	27%	Ingestion	59%	**13.4**	Antimony	15%	Ingestion	21%
(surface soil)		PAH, Total	11%	Dermal	38%		Arsenic	3%	Dermal	79%
		PCB, Total	55%	Inhalation	0%		Iron	3%	Inhalation	0%
		Neptunium-237	1%	External exposure	3%		Manganese	10%		
		Uranium-234	1%				Mercury	14%		
		Uranium-238	5%				Nickel	46%		
							Silver	2%		
							Uranium	1%		
							Vanadium	3%		

Table D8.18. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 4 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Outdoor Worker	**2.4E-04**	Arsenic	28%	Ingestion	59%	**23.4**	Antimony	10%	Ingestion	40%
(surface and subsurface		PAH, Total	8%	Dermal	38%		Arsenic	2%	Dermal	60%
soil)		PCB, Total	58%	Inhalation	0%		Iron	2%	Inhalation	0%
		Neptunium-237	1%	External exposure	2%		Manganese	6%		
		Uranium-234	1%				Mercury	14%		
		Uranium-238	3%				Nickel	27%		
							Silver	1%		
							Thallium	37%		
							Uranium	1%		
							Vanadium	2%		
Excavation Worker	**4.7E-05**	Arsenic	28%	Ingestion	59%	**23.4**	Antimony	10%	Ingestion	40%
(surface and subsurface		PAH, Total	8%	Dermal	38%		Arsenic	2%	Dermal	60%
soil)		PCB, Total	58%	Inhalation	0%		Iron	2%	Inhalation	0%
		Uranium-238	3%	External exposure	2%		Manganese	6%		
							Mercury	14%		
							Nickel	27%		
							Silver	1%		
							Thallium	37%		
							Uranium	1%		
							Vanadium	2%		

Table D8.18. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 4 (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)	**6.4E-04**	Arsenic	20%	Ingestion	29%	**35.8**	Antimony	13%	Ingestion	3%
		PAH, Total	12%	Dermal	66%		Arsenic	1%	Dermal	97%
		PCB, Total	62%	Inhalation	0%		Iron	1%	Inhalation	0%
		Neptunium-237	1%	External exposure	6%		Manganese	11%		
		Uranium-234	0%				Mercury	15%		
		Uranium-235	0%				Nickel	51%		
		Uranium-238	4%				Silver	2%		
							Uranium	1%		
							Vanadium	3%		
Future Child Resident (surface soil)	See Future Adult Resident					**94.4**	Antimony	14%	Ingestion	13%
							Arsenic	2%	Dermal	87%
							Barium	0%	Inhalation	0%
							Cadmium	0%		
							Copper	0%		
							Iron	2%		
							Manganese	11%		
							Mercury	15%		
							Nickel	49%		
							Silver	2%		
							Thallium	0%		
							Uranium	1%		
							Vanadium	3%		
Future Adult Recreational User (surface soil)	**2.8E-04**	Arsenic	20%	Ingestion	28%	**10.6**	Antimony	13%	Ingestion	3%
		PAH, Total	13%	Dermal	71%		Arsenic	1%	Dermal	97%
		PCB, Total	65%	Inhalation	0%		Iron	1%	Inhalation	0%
		Neptunium-237	0%	External exposure	2%		Manganese	11%		
		Uranium-238	1%				Mercury	15%		
							Nickel	51%		
							Silver	2%		
							Vanadium	3%		

Table D8.18. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 4 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**32.9**	Antimony	13%	Ingestion	3%
							Arsenic	1%	Dermal	97%
							Iron	1%	Inhalation	0%
							Manganese	11%		
							Mercury	15%		
							Nickel	51%		
							Silver	2%		
							Uranium	1%		
							Vanadium	3%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**37.8**	Antimony	14%	Ingestion	13%
							Arsenic	2%	Dermal	87%
							Cadmium	0%	Inhalation	0%
							Copper	0%		
							Iron	2%		
							Manganese	11%		
							Mercury	15%		
							Nickel	49%		
							Silver	2%		
							Thallium	0%		
							Uranium	1%		
							Vanadium	3%		

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.

Table D8.19. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 5

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker	**6.0E-06**	PCB, Total	77%	Ingestion	11%	**<1**	*No COCs		Ingestion	
(surface soil)				Dermal	80%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	9%					
Future Industrial Worker	**1.1E-04**	Arsenic	8%	Ingestion	11%	**6.3**	Antimony	42%	Ingestion	4%
(surface soil)		PAH, Total	5%	Dermal	80%		Copper	4%	Dermal	96%
		PCB, Total	77%	Inhalation	0%		Mercury	15%	Inhalation	0%
		Neptunium-237	3%	External exposure	9%		Nickel	34%		
		Uranium-235	1%				Uranium	2%		
		Uranium-238	6%							
Outdoor Worker	**1.6E-04**	Arsenic	16%	Ingestion	54%	**6.4**	Antimony	41%	Ingestion	30%
(surface soil)		PAH, Total	5%	Dermal	41%		Arsenic	2%	Dermal	70%
		PCB, Total	71%	Inhalation	0%		Copper	9%	Inhalation	0%
		Neptunium-237	1%	External exposure	5%		Mercury	12%		
		Uranium-235	1%				Nickel	28%		
		Uranium-238	6%				Uranium	4%		
Outdoor Worker	**2.4E-04**	Arsenic	11%	Ingestion	53%	**8.3**	Antimony	38%	Ingestion	29%
(surface and subsurface		PAH, Total	2%	Dermal	45%		Arsenic	2%	Dermal	71%
		PCB, Total	83%	Inhalation	0%		Copper	7%	Inhalation	0%
		Neptunium-237	1%	External exposure	2%		Iron	2%		
		Uranium-238	3%				Manganese	9%		
							Mercury	15%		
							Nickel	21%		
							Uranium	3%		
Excavation Worker	**4.9E-05**	Arsenic	11%	Ingestion	53%	**8.3**	Antimony	38%	Ingestion	29%
(surface and subsurface		PAH, Total	2%	Dermal	45%		Arsenic	2%	Dermal	71%
soil)		PCB, Total	83%	Inhalation	0%		Copper	7%	Inhalation	0%
		Uranium-238	3%	External exposure	2%		Iron	2%		
							Manganese	9%		
							Mercury	15%		
							Nickel	21%		
							Uranium	3%		

Table D8.19. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 5 (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	**4.3E-04**	Arsenic	11%	Ingestion	25%	**15.3**	Antimony	42%	Ingestion	5%
(surface soil)		PAH, Total	5%	Dermal	67%		Arsenic	1%	Dermal	95%
		PCB, Total	76%	Inhalation	0%		Barium	1%	Inhalation	0%
		Neptunium-237	2%	External exposure	7%		Copper	4%		
		Uranium-235	1%				Mercury	15%		
		Uranium-238	5%				Nickel	34%		
							Silver	1%		
							Uranium	2%		
Future Child Resident	See Future Adult Resident					**42.8**	Antimony	41%	Ingestion	19%
(surface soil)							Arsenic	2%	Dermal	81%
							Barium	1%	Inhalation	0%
							Cadmium	1%		
							Copper	7%		
							Mercury	13%		
							Nickel	30%		
							Silver	1%		
							Uranium	3%		
							Zinc	0%		

Table D8.19. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 5 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Future Adult Recreational User (surface soil)	**1.8E-04**	Arsenic	12%	Ingestion	24%	**4.5**	Antimony	42%	Ingestion	5%
		PAH, Total	6%	Dermal	73%		Copper	4%	Dermal	95%
		PCB, Total	80%	Inhalation	0%		Mercury	15%	Inhalation	0%
		Neptunium-237	1%	External exposure	2%		Nickel	34%		
		Uranium-238	2%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**14.1**	Antimony	42%	Ingestion	4%
							Arsenic	1%	Dermal	96%
							Barium	1%	Inhalation	0%
							Copper	4%		
							Mercury	15%		
							Nickel	34%		
							Silver	1%		
							Uranium	2%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**17.1**	Antimony	41%	Ingestion	19%
							Arsenic	2%	Dermal	81%
							Barium	1%	Inhalation	0%
							Cadmium	1%		
							Copper	7%		
							Mercury	13%		
							Nickel	30%		
							Silver	1%		
							Uranium	3%		

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.

Table D8.20. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 6

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker	**3.4E-06**	PAH, Total	30%	Ingestion	11%	**<1**	*No COCs		Ingestion	
(surface soil)		PCB, Total	33%	Dermal	80%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	9%					
Future Industrial Worker	**6.1E-05**	Arsenic	14%	Ingestion	11%	**5.5**	Antimony	42%	Ingestion	4%
(surface soil)		PAH, Total	30%	Dermal	80%		Cobalt	2%	Dermal	96%
		PCB, Total	33%	Inhalation	0%		Mercury	17%	Inhalation	0%
		Neptunium-237	4%	External exposure	9%		Nickel	33%		
		Uranium-235	3%							
		Uranium-238	15%							
Outdoor Worker	**9.6E-05**	Arsenic	26%	Ingestion	54%	**5.4**	Antimony	42%	Ingestion	29%
(surface soil)		PAH, Total	26%	Dermal	41%		Arsenic	3%	Dermal	71%
		PCB, Total	28%	Inhalation	0%		Cobalt	4%	Inhalation	0%
		Neptunium-237	2%	External exposure	5%		Iron	4%		
		Uranium-234	3%				Mercury	15%		
		Uranium-235	1%				Nickel	28%		
		Uranium-238	14%							
Outdoor Worker	**8.5E-05**	Arsenic	28%	Ingestion	53%	**6.8**	Antimony	38%	Ingestion	26%
(surface and subsurface		PAH, Total	23%	Dermal	45%		Arsenic	2%	Dermal	74%
soil)		PCB, Total	32%	Inhalation	0%		Cobalt	2%	Inhalation	0%
		Neptunium-237	2%	External exposure	2%		Iron	3%		
		Uranium-234	3%				Manganese	11%		
		Uranium-235	1%				Mercury	17%		
		Uranium-238	12%				Nickel	22%		
Excavation Worker	**1.7E-05**	Arsenic	28%	Ingestion	53%	**6.8**	Antimony	38%	Ingestion	26%
(surface and subsurface		PAH, Total	23%	Dermal	45%		Arsenic	2%	Dermal	74%
soil)		PCB, Total	32%	Inhalation	0%		Cobalt	2%	Inhalation	0%
		Uranium-238	12%	External exposure	2%		Iron	3%		
							Manganese	11%		
							Mercury	17%		
							Nickel	22%		

Table D8.20. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 6 (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	**2.4E-04**	Arsenic	19%	Ingestion	27%	**13.4**	Antimony	42%	Ingestion	5%
(surface soil)		PAH, Total	29%	Dermal	56%		Arsenic	1%	Dermal	95%
		PCB, Total	32%	Inhalation	0%		Cobalt	2%	Inhalation	0%
		Neptunium-237	3%	External exposure	17%		Iron	2%		
		Uranium-234	1%				Mercury	17%		
		Uranium-235	2%				Nickel	33%		
		Uranium-238	13%				Silver	1%		
							Uranium	1%		
Future Child Resident	See Future Adult Resident					**37.0**	Antimony	42%	Ingestion	18%
(surface soil)							Arsenic	2%	Dermal	82%
							Barium	1%	Inhalation	0%
							Cadmium	1%		
							Cobalt	3%		
							Copper	1%		
							Iron	3%		
							Mercury	16%		
							Nickel	30%		
							Silver	1%		
							Uranium	1%		

Table D8.20. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 6 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Future Adult Recreational User (surface soil)	**9.5E-05**	Arsenic	21%	Ingestion	29%	**4.0**	Antimony	42%	Ingestion	5%
		PAH, Total	34%	Dermal	66%		Mercury	17%	Dermal	95%
		PCB, Total	37%	Inhalation	0%		Nickel	33%	Inhalation	0%
		Neptunium-237	1%	External exposure	5%					
		Uranium-238	5%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**12.3**	Antimony	42%	Ingestion	4%
							Arsenic	1%	Dermal	96%
							Cobalt	2%	Inhalation	0%
							Iron	2%		
							Mercury	17%		
							Nickel	33%		
							Silver	1%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**14.8**	Antimony	42%	Ingestion	18%
							Arsenic	2%	Dermal	82%
							Barium	1%	Inhalation	0%
							Cadmium	1%		
							Cobalt	3%		
							Iron	3%		
							Mercury	16%		
							Nickel	30%		
							Silver	1%		
							Uranium	1%		

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.

Table D8.21. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 7

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker	**5.8E-06**	PCB, Total	81%	Ingestion	12%	**<1**	*No COCs		Ingestion	
(surface soil)				Dermal	83%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	5%					
Future Industrial Worker	**1.0E-04**	Arsenic	11%	Ingestion	12%	**8.8**	Antimony	40%	Ingestion	3%
(surface soil)		PAH, Total	2%	Dermal	83%		Manganese	17%	Dermal	96%
		PCB, Total	81%	Inhalation	0%		Nickel	38%	Inhalation	0%
		Uranium-235	1%	External exposure	5%					
		Uranium-238	5%							
Outdoor Worker	**1.6E-04**	Arsenic	20%	Ingestion	57%	**8.5**	Antimony	42%	Ingestion	25%
(surface soil)		PAH, Total	2%	Dermal	40%		Arsenic	2%	Dermal	75%
		PCB, Total	72%	Inhalation	0%		Iron	2%	Inhalation	0%
		Uranium-234	1%	External exposure	3%		Manganese	15%		
		Uranium-235	1%				Nickel	33%		
		Uranium-238	4%				Thallium	1%		
Outdoor Worker	**1.5E-04**	Arsenic	21%	Ingestion	57%	**8.5**	Antimony	43%	Ingestion	25%
(surface and subsurface		PAH, Total	1%	Dermal	41%		Arsenic	2%	Dermal	75%
soil)		PCB, Total	73%	Inhalation	0%		Cadmium	1%	Inhalation	0%
		Uranium-234	1%	External exposure	2%		Iron	2%		
		Uranium-238	4%				Manganese	14%		
							Nickel	33%		
							Silver	1%		
Excavation Worker	**3.1E-05**	Arsenic	21%	Ingestion	57%	**8.5**	Antimony	43%	Ingestion	25%
(surface and subsurface		PCB, Total	73%	Dermal	41%		Arsenic	2%	Dermal	75%
soil)		Uranium-238	4%	Inhalation	0%		Cadmium	1%	Inhalation	0%
				External exposure	2%		Iron	2%		
							Manganese	14%		
							Nickel	33%		
							Silver	1%		

Table D8.21. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 7 (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	**4.2E-04**	Arsenic	14%	Ingestion	27%	**21.7**	Antimony	40%	Ingestion	4%
(surface soil)		PAH, Total	2%	Dermal	68%		Arsenic	1%	Dermal	96%
		PCB, Total	79%	Inhalation	0%		Barium	0%	Inhalation	0%
		Uranium-234	<1%	External exposure	4%		Iron	1%		
		Uranium-235	1%				Manganese	17%		
		Uranium-238	4%				Nickel	38%		
							Silver	1%		
							Thallium	1%		
Future Child Resident	See Future Adult Resident					**58.4**	Antimony	41%	Ingestion	15%
(surface soil)							Arsenic	2%	Dermal	85%
							Barium	0%	Inhalation	0%
							Cadmium	1%		
							Copper	1%		
							Iron	2%		
							Manganese	16%		
							Nickel	35%		
							Silver	1%		
							Thallium	1%		
							Uranium	1%		

Table D8.21. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 7 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Future Adult Recreational User (surface soil)	**1.8E-04**	Arsenic	14%	Ingestion	26%	**6.4**	Antimony	40%	Ingestion	4%
		PAH, Total	2%	Dermal	73%		Manganese	17%	Dermal	96%
		PCB, Total	82%	Inhalation	0%		Nickel	38%	Inhalation	0%
		Uranium-238	1%	External exposure	1%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**19.9**	Antimony	40%	Ingestion	3%
							Arsenic	1%	Dermal	97%
							Iron	1%	Inhalation	0%
							Manganese	17%		
							Nickel	38%		
							Silver	1%		
							Thallium	1%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**23.4**	Antimony	41%	Ingestion	15%
							Arsenic	2%	Dermal	85%
							Barium	0%	Inhalation	0%
							Cadmium	1%		
							Copper	1%		
							Iron	2%		
							Manganese	16%		
							Nickel	35%		
							Silver	1%		
							Thallium	1%		
							Uranium	1%		

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.

Table D8.22. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 8

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker (surface soil)	**1.9E-06**	*No COCs		Ingestion	15%	**<1**	*No COCs		Ingestion	
				Dermal	70%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	15%					
Future Industrial Worker (surface soil)	**3.4E-05**	Arsenic	24%	Ingestion	15%	**4.1**	Antimony	47%	Ingestion	4%
		PAH, Total	12%	Dermal	70%		Mercury	18%	Dermal	96%
		PCB, Total	48%	Inhalation	0%		Nickel	27%	Inhalation	0%
		Neptunium-237	4%	External exposure	15%					
		Uranium-238	12%							
Outdoor Worker (surface soil)	**5.7E-05**	Arsenic	40%	Ingestion	62%	**4.0**	Antimony	48%	Ingestion	28%
		PAH, Total	10%	Dermal	31%		Arsenic	4%	Dermal	72%
		PCB, Total	38%	Inhalation	0%		Iron	4%	Inhalation	0%
		Neptunium-237	2%	External exposure	7%		Mercury	16%		
		Uranium-238	10%				Nickel	23%		
Outdoor Worker (surface and subsurface soil)	**5.9E-05**	Arsenic	38%	Ingestion	62%	**5.8**	Antimony	44%	Ingestion	26%
		PAH, Total	7%	Dermal	34%		Arsenic	2%	Dermal	74%
		PCB, Total	46%	Inhalation	0%		Iron	3%	Inhalation	0%
		Uranium-238	6%	External exposure	4%		Manganese	11%		
							Mercury	19%		
							Nickel	16%		
							Silver	2%		
Excavation Worker (surface and subsurface soil)	**1.2E-05**	Arsenic	38%	Ingestion	62%	**5.8**	Antimony	44%	Ingestion	26%
		PCB, Total	46%	Dermal	34%		Arsenic	2%	Dermal	74%
				Inhalation	0%		Iron	3%	Inhalation	0%
				External exposure	4%		Manganese	11%		
							Mercury	19%		
							Nickel	16%		
							Silver	2%		

Table D8.22. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 8 (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	**1.4E-04**	Arsenic	31%	Ingestion	32%	**9.9**	Antimony	47%	Ingestion	5%
(surface soil)		PAH, Total	11%	Dermal	57%		Arsenic	1%	Dermal	95%
		PCB, Total	45%	Inhalation	0%		Iron	2%	Inhalation	0%
		Neptunium-237	3%	External exposure	12%		Mercury	18%		
		Uranium-238	9%				Nickel	27%		
							Silver	2%		
Future Child Resident	See Future Adult Resident					**27.3**	Antimony	48%	Ingestion	18%
(surface soil)							Arsenic	3%	Dermal	82%
							Barium	1%	Inhalation	0%
							Cadmium	1%		
							Iron	3%		
							Mercury	17%		
							Nickel	25%		
							Silver	2%		
							Uranium	1%		

Table D8.22. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 8 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Future Adult Recreational User (surface soil)	**5.8E-05**	Arsenic	33%	Ingestion	32%	**3.0**	Antimony	47%	Ingestion	5%
		PAH, Total	12%	Dermal	64%		Mercury	18%	Dermal	95%
		PCB, Total	50%	Inhalation	0%		Nickel	27%	Inhalation	0%
		Uranium-238	4%	External exposure	4%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**9.1**	Antimony	47%	Ingestion	4%
							Arsenic	1%	Dermal	96%
							Iron	2%	Inhalation	0%
							Mercury	18%		
							Nickel	27%		
							Silver	2%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**10.9**	Antimony	48%	Ingestion	18%
							Arsenic	3%	Dermal	82%
							Cadmium	1%	Inhalation	0%
							Iron	3%		
							Mercury	17%		
							Nickel	25%		
							Silver	2%		
							Uranium	1%		

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.

Table D8.23. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 9

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker (surface soil)	**2.0E-06**	PCB, Total	58%	Ingestion	15%	**<1**	*No COCs		Ingestion	
				Dermal	74%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	11%					
Future Industrial Worker (surface soil)	**3.5E-05**	Arsenic	22%	Ingestion	15%	**4.6**	Antimony	63%	Ingestion	4%
		PAH, Total	8%	Dermal	74%		Nickel	20%	Dermal	96%
		PCB, Total	58%	Inhalation	0%		Silver	3%	Inhalation	0%
		Uranium-238	12%	External exposure	11%		Vanadium	10%		
Outdoor Worker (surface soil)	**5.9E-05**	Arsenic	37%	Ingestion	62%	**4.6**	Antimony	63%	Ingestion	29%
		PAH, Total	6%	Dermal	33%		Arsenic	3%	Dermal	71%
		PCB, Total	47%	Inhalation	0%		Iron	4%	Inhalation	0%
		Uranium-238	10%	External exposure	5%		Nickel	16%		
							Vanadium	8%		
Outdoor Worker (surface and subsurface soil)	**6.1E-05**	Arsenic	42%	Ingestion	64%	**7.7**	Antimony	41%	Ingestion	24%
		PAH, Total	5%	Dermal	33%		Arsenic	2%	Dermal	76%
		PCB, Total	46%	Inhalation	0%		Cadmium	1%	Inhalation	0%
		Uranium-238	6%	External exposure	3%		Iron	2%		
							Manganese	21%		
							Mercury	14%		
							Nickel	10%		
							Silver	2%		
							Vanadium	5%		
Excavation Worker (surface and subsurface soil)	**1.2E-05**	Arsenic	42%	Ingestion	64%	**7.7**	Antimony	41%	Ingestion	24%
		PCB, Total	46%	Dermal	33%		Arsenic	2%	Dermal	76%
				Inhalation	0%		Cadmium	1%	Inhalation	0%
				External exposure	3%		Iron	2%		
							Manganese	21%		
							Mercury	14%		
							Nickel	10%		
							Silver	2%		
							Vanadium	5%		

Table D8.23. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 9 (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	**1.5E-04**	Arsenic	28%	Ingestion	31%	**11.2**	Antimony	63%	Ingestion	5%
(surface soil)		PAH, Total	7%	Dermal	60%		Arsenic	1%	Dermal	95%
		PCB, Total	55%	Inhalation	0%		Barium	1%	Inhalation	0%
		Uranium-238	10%	External exposure	9%		Iron	2%		
							Nickel	20%		
							Silver	3%		
							Vanadium	10%		
Future Child Resident	See Future Adult Resident					**31.0**	Antimony	63%	Ingestion	18%
(surface soil)							Arsenic	2%	Dermal	82%
							Barium	1%	Inhalation	0%
							Cadmium	1%		
							Iron	3%		
							Nickel	18%		
							Silver	2%		
							Uranium	1%		
							Vanadium	9%		

Table D8.23. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 9 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Future Adult Recreational User (surface soil)	**6.1E-05**	Arsenic	29%	Ingestion	31%	**3.3**	Antimony	63%	Ingestion	5%
		PAH, Total	8%	Dermal	67%		Nickel	20%	Dermal	95%
		PCB, Total	59%	Inhalation	0%		Vanadium	10%	Inhalation	0%
		Uranium-238	4%	External exposure	3%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**10.3**	Antimony	63%	Ingestion	4%
							Arsenic	1%	Dermal	96%
							Barium	1%	Inhalation	0%
							Iron	2%		
							Nickel	20%		
							Silver	3%		
							Vanadium	10%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**12.4**	Antimony	63%	Ingestion	18%
							Arsenic	2%	Dermal	82%
							Barium	1%	Inhalation	0%
							Cadmium	1%		
							Iron	3%		
							Nickel	18%		
							Silver	2%		
							Vanadium	9%		

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.

Table D8.24. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 10

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Current Industrial Worker (surface soil)	**<1.0E-06**	*No COCs		Ingestion Dermal Inhalation External exposure		**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**1.4E-06**	PAH, Total	100%	Ingestion Dermal Inhalation External exposure	10% 90% 0% 0%	**5.4**	Antimony Mercury Nickel	60% 11% 25%	Ingestion Dermal Inhalation	3% 96% 0%
Outdoor Worker (surface soil)	**2.0E-06**	PAH, Total	100%	Ingestion Dermal Inhalation External exposure	52% 48% 0% 0%	**5.2**	Antimony Mercury Nickel Uranium	63% 9% 22% 2%	Ingestion Dermal Inhalation	26% 74% 0%
Outdoor Worker (surface and subsurface soil)	**2.1E-05**	Arsenic PAH, Total	91% 9%	Ingestion Dermal Inhalation External exposure	79% 21% 0% 0%	**5.3**	Antimony Arsenic Mercury Nickel Uranium	61% 2% 9% 21% 2%	Ingestion Dermal Inhalation	27% 73% 0%
Excavation Worker (surface and subsurface soil)	**4.3E-06**	Arsenic	91%	Ingestion Dermal Inhalation External exposure	79% 21% 0% 0%	**5.3**	Antimony Arsenic Mercury Nickel Uranium	61% 2% 9% 21% 2%	Ingestion Dermal Inhalation	27% 73% 0%

Table D8.24. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 10 (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	**5.7E-06**	PAH, Total	100%	Ingestion	24%	**13.2**	Antimony	60%	Ingestion	4%
(surface soil)				Dermal	76%		Barium	1%	Dermal	96%
				Inhalation	0%		Mercury	10%	Inhalation	0%
				External exposure	0%		Nickel	25%		
							Silver	1%		
							Uranium	1%		
Future Child Resident	See Future Adult Resident					**35.6**	Antimony	61%	Ingestion	16%
(surface soil)							Barium	1%	Dermal	84%
							Cadmium	1%	Inhalation	0%
							Mercury	10%		
							Nickel	23%		
							Silver	1%		
							Uranium	2%		

Table D8.24. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 15, EU 10 (Continued)

Receptor	Total ELCR	COCs	% Total ELCR	Routes of Exposure	% Total ELCR	Total HI	COCs	% Total HI	Routes of Exposure	% Total HI
Future Adult Recreational User (surface soil)	**2.6E-06**	PAH, Total	100%	Ingestion	22%	**3.9**	Antimony	60%	Ingestion	4%
				Dermal	78%		Mercury	11%	Dermal	96%
				Inhalation	0%		Nickel	25%	Inhalation	0%
				External exposure	0%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**12.1**	Antimony	60%	Ingestion	3%
							Barium	1%	Dermal	97%
							Mercury	11%	Inhalation	0%
							Nickel	25%		
							Silver	1%		
							Uranium	1%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**14.3**	Antimony	61%	Ingestion	16%
							Barium	1%	Dermal	84%
							Cadmium	1%	Inhalation	0%
							Mercury	10%		
							Nickel	23%		
							Silver	1%		
							Uranium	2%		

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.