Table D6.15. Summary of Risk Characterization 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%	**<1**	*No COCs		Ingestion	
		PAH, Total	66%	Dermal	80%				Dermal	
		Uranium-238	4%	Inhalation	0%				Inhalation	
				External exposure	3%					
Outdoor Worker (surface soil)	**5.3E-05**	Arsenic	47%	Ingestion	66%	**1.1**	Antimony	52%	Ingestion	96%
		PAH, Total	50%	Dermal	33%		Arsenic	15%	Dermal	4%
		Uranium-238	3%	Inhalation	0%		Iron	12%	Inhalation	0%
				External exposure	1%					
Outdoor Worker (surface and subsurface soil)	**4.7E-05**	Arsenic	56%	Ingestion	70%	**5.4**	Antimony	15%	Ingestion	99%
		PAH, Total	38%	Dermal	28%		Arsenic	3%	Dermal	1%
		Technetium-99	4%	Inhalation	0%		Cadmium	2%	Inhalation	0%
		Uranium-238	2%	External exposure	1%		Iron	2%		
							Thallium	73%		
Excavation Worker (surface and subsurface soil)	**9.3E-06**	Arsenic	56%	Ingestion	70%	**5.4**	Antimony	15%	Ingestion	99%
		PAH, Total	38%	Dermal	28%		Arsenic	3%	Dermal	1%
				Inhalation	0%		Cadmium	2%	Inhalation	0%
				External exposure	1%		Iron	2%		
							Thallium	73%		

Table D6.15. Summary of Risk Characterization 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 (surface soil)	**1.3E-04**	Arsenic PAH, Total Uranium-238	37% 60% 3%	Ingestion Dermal Inhalation External exposure	36% 61% 0% 3%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**4.8**	Antimony Arsenic Cadmium Iron Nickel Thallium Uranium	50% 16% 6% 11% 7% 6% 3%	Ingestion Dermal Inhalation	93% 7% 0%
Future Adult Recreational User (surface soil)	**5.5E-05**	Arsenic PAH, Total	37% 62%	Ingestion Dermal Inhalation External exposure	34% 65% 0% 1%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**1.9**	Antimony Arsenic Cadmium Iron Nickel Thallium	50% 16% 6% 12% 7% 6%	Ingestion Dermal Inhalation	93% 7% 0%

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 D6.16. Summary of Risk Characterization 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%	**<1**	*No COCs		Ingestion	
		PAH, Total	53%	Dermal	67%				Dermal	
		PCB, Total	2%	Inhalation	0%				Inhalation	
		Uranium-235	2%	External exposure	17%					
		Uranium-238	16%							
Outdoor Worker (surface soil)	**7.9E-05**	Arsenic	41%	Ingestion	65%	**1.5**	Antimony	51%	Ingestion	97%
		PAH, Total	41%	Dermal	28%		Arsenic	14%	Dermal	2%
		PCB, Total	2%	Inhalation	0%		Iron	12%	Inhalation	0%
		Uranium-234	3%	External exposure	7%		Nickel	8%		
		Uranium-238	13%				Uranium	9		
Outdoor Worker (surface and subsurface soil)	**8.1E-05**	Arsenic	40%	Ingestion	64%	**2.1**	Antimony	39%	Ingestion	97%
		PAH, Total	40%	Dermal	27%		Arsenic	10%	Dermal	2%
		PCB, Total	2%	Inhalation	0%		Iron	8%	Inhalation	1%
		Neptunium-237	2%	External exposure	9%		Manganese	9%		
		Uranium-234	3%				Nickel	11%		
		Uranium-238	13%				Thallium	5%		
							Uranium	6%		
Excavation Worker (surface and subsurface soil)	**1.6E-05**	Arsenic	40%	Ingestion	64%	**2.1**	Antimony	39%	Ingestion	97%
		PAH, Total	40%	Dermal	27%		Arsenic	10%	Dermal	2%
		Uranium-238	13%	Inhalation	0%		Iron	8%	Inhalation	1%
				External exposure	9%		Manganese	9%		
							Nickel	11%		
							Thallium	5%		
							Uranium	6%		

Table D6.16. Summary of Risk Characterization 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 Resident (surface soil)	**1.9E-04**	Arsenic	33%	Ingestion	33%	**<1**	*No COCs		Ingestion	
		PAH, Total	50%	Dermal	53%				Dermal	
		PCB, Total	2%	Inhalation	0%				Inhalation	
		Uranium-234	1%	External exposure	13%					
		Uranium-235	2%							
		Uranium-238	13%							
Future Child Resident (surface soil)	See Future Adult Resident					**6.3**	Antimony	50%	Ingestion	95%
							Arsenic	15%	Dermal	4%
							Iron	11%	Inhalation	0%
							Mercury	6%		
							Nickel	8%		
							Uranium	9%		
Future Adult Recreational User (surface soil)	**7.5E-05**	Arsenic	35%	Ingestion	34%	**<1**	*No COCs		Ingestion	
		PAH, Total	56%	Dermal	62%				Dermal	
		PCB, Total	3%	Inhalation	0%				Inhalation	
		Uranium-238	5%	External exposure	4%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**<1**	*No COCs		Ingestion	
									Dermal	
									Inhalation	
Total ELCR and total HI represent total risk or hazard summed across all routes of exposure for all COPCs..										
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**2.5**	Antimony	50%	Ingestion	96%
							Arsenic	15%	Dermal	4%
							Iron	11%	Inhalation	0%
							Mercury	6%		
							Nickel	8%		
							Uranium	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 D6.17. Summary of Risk Characterization 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%	**<1**	*No COCs		Ingestion	
(surface soil)		PAH, Total	3%	Dermal	7%				Dermal	
		PCB, Total	3%	Inhalation	0%				Inhalation	
		Neptunium-237	2%	External exposure	81%					
		Uranium-234	1%							
		Uranium-235	6%							
		Uranium-238	82%							
Outdoor Worker	**9.3E-04**	Arsenic	6%	Ingestion	55%	**3**	Antimony	18%	Ingestion	97%
(surface soil)		PAH, Total	2%	Dermal	4%		Arsenic	11%	Dermal	2%
		PCB, Total	3%	Inhalation	0%		Cobalt	12%	Inhalation	1%
		Neptunium-237	1%	External exposure	41%		Copper	4%		
		Technetium-99	1%				Iron	13%		
		Thorium-230	0%				Manganese	7%		
		Uranium-234	5%				Mercury	4%		
		Uranium-235	4%				Nickel	17%		
		Uranium-238	78%				Uranium	7%		

Table D6.17. Summary of Risk Characterization 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%	**8.3**	Antimony	10%	Ingestion	99%
(surface and subsurface		PAH, Total	1%	Dermal	4%		Arsenic	5%	Dermal	1%
soil)		PCB, Total	5%	Inhalation	0%		Cobalt	3%	Inhalation	0%
		Neptunium-237	1%	External exposure	41%		Copper	1%		
		Technetium-99	0%				Iron	5%		
		Thorium-230	0%				Manganese	3%		
		Uranium-234	5%				Mercury	3%		
		Uranium-235	4%				Nickel	6%		
		Uranium-238	76%				Thallium	60%		
							Uranium	3%		
Excavation Worker	**2.4E-04**	Arsenic	6%	Ingestion	54%	**8.3**	Antimony	10%	Ingestion	99%
(surface and subsurface		PAH, Total	1%	Dermal	4%		Arsenic	5%	Dermal	1%
soil)		PCB, Total	5%	Inhalation	0%		Cobalt	3%	Inhalation	0%
		Neptunium-237	1%	External exposure	41%		Copper	1%		
		Uranium-234	5%				Iron	5%		
		Uranium-235	4%				Manganese	3%		
		Uranium-238	76%				Mercury	3%		
							Nickel	6%		
							Thallium	60%		
							Uranium	3%		
Future Adult Resident	**2.2E-03**	Arsenic	5%	Ingestion	14%	**1.4**	Antimony	15%	Ingestion	80%
(surface soil)		PAH, Total	3%	Dermal	7%		Arsenic	22%	Dermal	17%
		PCB, Total	4%	Inhalation	0%		Cobalt	10%	Inhalation	3%
		Neptunium-237	2%	External exposure	78%		Iron	11%		
		Technetium-99	0%				Manganese	7%		
		Thorium-230	0%				Nickel	15%		
		Uranium-234	1%							
Total ELCR and total HI represent total		Uranium-235	6%							
		Uranium-238	79%							

Table D6.17. Summary of Risk Characterization 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 Resident (surface soil)	See Future Adult Resident					**12.7**	Antimony	18%	Ingestion	95%
							Arsenic	13%	Dermal	4%
							Cadmium	2%	Inhalation	0%
							Cobalt	11%		
							Copper	4%		
							Iron	13%		
							Manganese	7%		
							Mercury	4%		
							Nickel	17%		
							Thallium	3%		
							Uranium	7%		
							Vanadium	1%		
Future Adult Recreational User (surface soil)	**4.1E-04**	Arsenic	11%	Ingestion	29%	**<1**	*No COCs		Ingestion	
		PAH, Total	7%	Dermal	18%				Dermal	
		PCB, Total	10%	Inhalation	0%				Inhalation	
		Neptunium-237	1%	External exposure	52%					
		Uranium-234	2%							
		Uranium-235	4%							
		Uranium-238	65%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**1.1**	Antimony	15%	Ingestion	79%
							Arsenic	24%	Dermal	20%
							Cobalt	9%	Inhalation	0%
							Iron	11%		
							Nickel	14%		

Table D6.17. Summary of Risk Characterization 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					**5.1**	Antimony	18%	Ingestion	96%
							Arsenic	13%	Dermal	4%
							Cadmium	2%	Inhalation	0%
							Cobalt	11%		
							Copper	4%		
							Iron	13%		
							Manganese	7%		
							Mercury	4%		
							Nickel	17%		
							Thallium	3%		
							Uranium	7%		

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 D6.18. Summary of Risk Characterization 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%	**<1**	*No COCs		Ingestion	
(surface soil)		PAH, Total	12%	Dermal	80%				Dermal	
		PCB, Total	65%	Inhalation	0%				Inhalation	
		Neptunium-237	2%	External exposure	7%					
		Uranium-238	5%							
Outdoor Worker	**2.5E-04**	Arsenic	27%	Ingestion	59%	**2.9**	Antimony	20%	Ingestion	96%
(surface soil)		PAH, Total	11%	Dermal	38%		Arsenic	15%	Dermal	3%
		PCB, Total	55%	Inhalation	0%		Iron	10%	Inhalation	0%
		Neptunium-237	1%	External exposure	3%		Manganese	6%		
		Uranium-234	1%				Mercury	11%		
		Uranium-238	5%				Nickel	26%		
							Uranium	4%		
Outdoor Worker	**2.4E-04**	Arsenic	28%	Ingestion	59%	**9.4**	Antimony	8%	Ingestion	99%
(surface and subsurface		PAH, Total	8%	Dermal	38%		Arsenic	4%	Dermal	1%
soil)		PCB, Total	58%	Inhalation	0%		Iron	3%	Inhalation	0%
		Neptunium-237	1%	External exposure	2%		Manganese	2%		
		Uranium-234	1%				Mercury	5%		
		Uranium-238	3%				Nickel	8%		
							Thallium	67%		
							Uranium	1%		

Table D6.18. Summary of Risk Characterization 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
Excavation Worker	**4.7E-05**	Arsenic	28%	Ingestion	59%	**9.4**	Antimony	8%	Ingestion	99%
(surface and subsurface		PAH, Total	8%	Dermal	38%		Arsenic	4%	Dermal	1%
soil)		PCB, Total	58%	Inhalation	0%		Iron	3%	Inhalation	0%
		Uranium-238	3%	External exposure	2%		Manganese	2%		
							Mercury	5%		
							Nickel	8%		
							Thallium	67%		
							Uranium	1%		
Future Adult Resident	**6.4E-04**	Arsenic	20%	Ingestion	29%	**1.4**	Antimony	16%	Ingestion	77%
(surface soil)		PAH, Total	12%	Dermal	66%		Arsenic	27%	Dermal	21%
		PCB, Total	62%	Inhalation	0%		Iron	8%	Inhalation	3%
		Neptunium-237	1%	External exposure	6%		Mercury	8%		
		Uranium-234	0%				Nickel	22%		
		Uranium-235	0%							
		Uranium-238	4%							
Future Child Resident	See Future Adult Resident					**12.5**	Antimony	20%	Ingestion	94%
(surface soil)							Arsenic	16%	Dermal	6%
							Cadmium	3%	Inhalation	0%
							Copper	2%		
							Iron	10%		
							Manganese	6%		
							Mercury	10%		
							Nickel	26%		
Total ELCR and total HI represent total risk or hazard summed across all routes of exposure for all COPCs..							Thallium	2%		
							Uranium	4%		
							Vanadium	2%		

Table D6.18. Summary of Risk Characterization 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 Recreational User (surface soil)	**2.7E-04**	Arsenic	20%	Ingestion	28%	**<1**	*No COCs		Ingestion	
		PAH, Total	10%	Dermal	71%				Dermal	
		PCB, Total	67%	Inhalation	0%				Inhalation	
		Neptunium-237	0%	External exposure	2%					
		Uranium-238	2%							
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**1.1**	Antimony	16%	Ingestion	75%
							Arsenic	30%	Dermal	25%
							Nickel	20%	Inhalation	0%
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**5.0**	Antimony	20%	Ingestion	94%
							Arsenic	16%	Dermal	6%
							Cadmium	3%	Inhalation	0%
							Iron	10%		
							Manganese	6%		
							Mercury	10%		
							Nickel	26%		
							Uranium	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 D6.19. Summary of Risk Characterization 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%	**<1**	*No COCs		Ingestion	
(surface soil)		PAH, Total	5%	Dermal	80%				Dermal	
		PCB, Total	77%	Inhalation	0%				Inhalation	
		Neptunium-237	3%	External exposure	9%					
		Uranium-235	1%							
		Uranium-238	6%							
Outdoor Worker	**1.6E-04**	Arsenic	16%	Ingestion	54%	**1.8**	Antimony	42%	Ingestion	98%
(surface soil)		PAH, Total	5%	Dermal	41%		Arsenic	9%	Dermal	2%
		PCB, Total	71%	Inhalation	0%		Copper	24%	Inhalation	0%
		Neptunium-237	1%	External exposure	5%		Nickel	12%		
		Uranium-235	1%				Uranium	10%		
		Uranium-238	6%							
Outdoor Worker	**2.4E-04**	Arsenic	11%	Ingestion	53%	**2.4**	Antimony	38%	Ingestion	98%
(surface and subsurface		PAH, Total	2%	Dermal	45%		Arsenic	7%	Dermal	2%
		PCB, Total	83%	Inhalation	0%		Copper	18%	Inhalation	0%
		Neptunium-237	1%	External exposure	2%		Iron	4%		
		Uranium-238	3%				Manganese	4%		
							Mercury	8%		
							Nickel	9%		
							Uranium	7%		

Table D6.19. Summary of Risk Characterization 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
Excavation Worker	**4.9E-05**	Arsenic	11%	Ingestion	53%	**2.4**	Antimony	38%	Ingestion	98%
(surface and subsurface		PAH, Total	2%	Dermal	45%		Arsenic	7%	Dermal	2%
soil)		PCB, Total	83%	Inhalation	0%		Copper	18%	Inhalation	0%
		Uranium-238	3%	External exposure	2%		Iron	4%		
							Manganese	4%		
							Mercury	8%		
							Nickel	9%		
							Uranium	7%		
Future Adult Resident	**4.3E-04**	Arsenic	11%	Ingestion	25%	**<1**	*No COCs		Ingestion	
(surface soil)		PAH, Total	5%	Dermal	67%				Dermal	
		PCB, Total	76%	Inhalation	0%				Inhalation	
		Neptunium-237	2%	External exposure	7%					
		Uranium-235	1%							
		Uranium-238	5%							
Future Child Resident	See Future Adult Resident					**7.8**	Antimony	41%	Ingestion	96%
(surface soil)							Arsenic	10%	Dermal	4%
							Cadmium	4%	Inhalation	0%
							Copper	23%		
							Nickel	12%		
							Uranium	10%		
Future Adult Recreational	**1.8E-04**	Arsenic	12%	Ingestion	24%	**<1**	*No COCs		Ingestion	
User (surface soil)		PAH, Total	6%	Dermal	73%				Dermal	
		PCB, Total	80%	Inhalation	0%				Inhalation	
Total ELCR and total HI represent total		Neptunium-237	1%	External exposure	2%					
		Uranium-238	2%							

Table D6.19. Summary of Risk Characterization 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 Teen Recreational User (surface soil)	See Future Adult Recreational User					**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**3.1**	Antimony Arsenic Cadmium Copper Nickel Uranium	41% 10% 4% 23% 12% 10%	Ingestion Dermal Inhalation	96% 4% 0%

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 D6.20. Summary of Risk Characterization 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	13%	**<1**	*No COCs		Ingestion	
(surface soil)		PCB, Total	33%	Dermal	67%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	20%					
Future Industrial Worker	**6.1E-05**	Arsenic	14%	Ingestion	13%	**<1**	*No COCs		Ingestion	
(surface soil)		PAH, Total	30%	Dermal	67%				Dermal	
		PCB, Total	33%	Inhalation	0%				Inhalation	
		Neptunium-237	4%	External exposure	20%					
		Uranium-235	3%							
		Uranium-238	15%							
Outdoor Worker	**9.6E-05**	Arsenic	26%	Ingestion	59%	**1.5**	Antimony	45%	Ingestion	97%
(surface soil)		PAH, Total	26%	Dermal	31%		Arsenic	10%	Dermal	3%
		PCB, Total	28%	Inhalation	0%		Cobalt	11%	Inhalation	0%
		Neptunium-237	2%	External exposure	10%		Iron	9%		
		Uranium-234	3%				Nickel	12%		
		Uranium-235	1%							
		Uranium-238	14%							
Outdoor Worker	**8.5E-05**	Arsenic	28%	Ingestion	60%	**1.8**	Antimony	42%	Ingestion	97%
(surface and subsurface		PAH, Total	23%	Dermal	32%		Arsenic	8%	Dermal	3%
soil)		PCB, Total	32%	Inhalation	0%		Cadmium	5%	Inhalation	0%
		Neptunium-237	2%	External exposure	8%		Cobalt	6%		
		Uranium-234	3%				Iron	8%		
		Uranium-235	1%				Mercury	10%		
		Uranium-238	12%				Nickel	10%		

Table D6.20. Summary of Risk Characterization 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
Excavation Worker	**1.7E-05**	Arsenic	28%	Ingestion	60%	**1.8**	Antimony	42%	Ingestion	97%
(surface and subsurface		PAH, Total	23%	Dermal	32%		Arsenic	8%	Dermal	3%
soil)		PCB, Total	32%	Inhalation	0%		Cadmium	5%	Inhalation	0%
		Uranium-238	12%	External exposure	8%		Cobalt	6%		
							Iron	8%		
							Mercury	10%		
							Nickel	10%		
Future Adult Resident	**2.4E-04**	Arsenic	19%	Ingestion	27%	**<1**	*No COCs		Ingestion	
(surface soil)		PAH, Total	29%	Dermal	56%				Dermal	
		PCB, Total	32%	Inhalation	0%				Inhalation	
		Neptunium-237	3%	External exposure	17%					
		Uranium-234	1%							
		Uranium-235	2%							
		Uranium-238	13%							
Future Child Resident	See Future Adult Resident					**6.4**	Antimony	44%	Ingestion	95%
(surface soil)							Arsenic	12%	Dermal	5%
							Cadmium	5%	Inhalation	0%
							Cobalt	114%		
							Copper	2%		
							Iron	9%		
							Nickel	12%		
							Uranium	4%		
Future Adult Recreational	**9.5E-05**	Arsenic	21%	Ingestion	29%	**<1**	*No COCs		Ingestion	
Total ELCR and total HI represent total		PAH, Total	34%	Dermal	66%				Dermal	
		PCB, Total	37%	Inhalation	0%				Inhalation	
		Neptunium-237	1%	External exposure	5%					
		Uranium-238	5%							

Table D6.20. Summary of Risk Characterization 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 Teen Recreational User (surface soil)	See Future Adult Recreational User					**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**2.6**	Antimony Arsenic Cadmium Cobalt Iron Nickel Uranium	44% 12% 5% 11% 9% 12% 4%	Ingestion Dermal Inhalation	95% 5% 0%

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 D6.21. Summary of Risk Characterization 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 (surface soil)	**5.8E-06**	PCB, Total	81%	Ingestion	12%	**<1**	*No COCs		Ingestion	
				Dermal	82%				Dermal	
				Inhalation	0%				Inhalation	
				External exposure	5%					
Future Industrial Worker (surface soil)	**1.0E-04**	Arsenic	11%	Ingestion	12%	**<1**	*No COCs		Ingestion	
		PAH, Total	2%	Dermal	83%				Dermal	
		PCB, Total	81%	Inhalation	0%				Inhalation	
		Uranium-235	1%	External exposure	5%					
		Uranium-238	5%							
Outdoor Worker (surface soil)	**1.6E-04**	Arsenic	20%	Ingestion	57%	**2.2**	Antimony	48%	Ingestion	97%
		PAH, Total	2%	Dermal	40%		Arsenic	9%	Dermal	2%
		PCB, Total	72%	Inhalation	0%		Iron	7%	Inhalation	0%
		Uranium-234	1%	External exposure	3%		Manganese	7%		
		Uranium-235	1%				Nickel	16%		
		Uranium-238	4%							
Outdoor Worker (surface and subsurface soil)	**1.5E-04**	Arsenic	21%	Ingestion	57%	**2.2**	Antimony	50%	Ingestion	97%
		PAH, Total	1%	Dermal	41%		Arsenic	9%	Dermal	3%
		PCB, Total	73%	Inhalation	0%		Cadmium	5%	Inhalation	0%
		Uranium-234	1%	External exposure	2%		Iron	7%		
		Uranium-238	4%				Manganese	7%		
							Nickel	16%		

Table D6.21. Summary of Risk Characterization 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
Excavation Worker	**3.1E-05**	Arsenic	21%	Ingestion	57%	**2.2**	Antimony	50%	Ingestion	97%
(surface and subsurface		PCB, Total	73%	Dermal	41%		Arsenic	9%	Dermal	3%
soil)		Uranium-238	4%	Inhalation	0%		Cadmium	5%	Inhalation	0%
				External exposure	2%		Iron	7%		
							Manganese	7%		
							Nickel	16%		
Future Adult Resident	**4.2E-04**	Arsenic	14%	Ingestion	27%	**1**	Antimony	40%	Ingestion	81%
(surface soil)		PAH, Total	2%	Dermal	68%		Arsenic	18%	Dermal	16%
		PCB, Total	79%	Inhalation	0%		Nickel	14%	Inhalation	3%
		Uranium-234	0%	External exposure	4%					
		Uranium-235	1%							
		Uranium-238	4%							
Future Child Resident	See Future Adult Resident					**9.3**	Antimony	47%	Ingestion	95%
(surface soil)							Arsenic	10%	Dermal	4%
							Cadmium	4%	Inhalation	0%
							Copper	3%		
							Iron	7%		
							Manganese	7%		
							Nickel	15%		
							Thallium	4%		
							Uranium	2%		

Table D6.21. Summary of Risk Characterization 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%	**<1**	*No COCs		Ingestion	
		PAH, Total	2%	Dermal	73%				Dermal	
		PCB, Total	82%	Inhalation	0%				Inhalation	
		Uranium-238	1%	External exposure	1%					
Future Teen Recreational	See Future Adult Recreational User					**<1**	*No COCs		Ingestion	
Total ELCR and total HI represent total risk or hazard summed across all routes of exposure for all COPCs..									Dermal	
									Inhalation	
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**3.7**	Antimony	47%	Ingestion	96%
							Arsenic	10%	Dermal	4%
							Cadmium	4%	Inhalation	0%
							Copper	3%		
							Iron	7%		
							Manganese	7%		
							Nickel	15%		
							Thallium	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 D6.22. Summary of Risk Characterization 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 Dermal Inhalation External exposure	15% 70% 0% 15%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Industrial Worker (surface soil)	**3.4E-05**	Arsenic PAH, Total PCB, Total Neptunium-237 Uranium-238	24% 12% 48% 4% 12%	Ingestion Dermal Inhalation External exposure	15% 70% 0% 15%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**5.7E-05**	Arsenic PAH, Total PCB, Total Neptunium-237 Uranium-238	40% 10% 38% 2% 10%	Ingestion Dermal Inhalation External exposure	62% 31% 0% 7%	**1.2**	Antimony Arsenic Iron Mercury Nickel	48% 12% 10% 9% 10%	Ingestion Dermal Inhalation	96% 3% 0%
Outdoor Worker (surface and subsurface soil)	**5.9E-05**	Arsenic PAH, Total PCB, Total Uranium-238	38% 7% 46% 6%	Ingestion Dermal Inhalation External exposure	62% 34% 0% 4%	**1.5**	Antimony Arsenic Iron Mercury Nickel	51% 9% 8% 12% 7%	Ingestion Dermal Inhalation	97% 3% 0%

Table D6.22. Summary of Risk Characterization 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
Excavation Worker (surface and subsurface soil)	**1.2E-05**	Arsenic PCB, Total	38% 46%	Ingestion Dermal Inhalation External exposure	62% 34% 0% 4%	**1.5**	Antimony Arsenic Iron Mercury Nickel	51% 9% 8% 12% 7%	Ingestion Dermal Inhalation	97% 3% 0%
Future Adult Resident (surface soil)	**1.4E-04**	Arsenic PAH, Total PCB, Total Neptunium-237 Uranium-238	31% 11% 45% 3% 9%	Ingestion Dermal Inhalation External exposure	32% 57% 0% 12%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**5**	Antimony Arsenic Cadmium Iron Mercury Nickel Uranium	47% 14% 7% 10% 9% 9% 4%	Ingestion Dermal Inhalation	94% 6% 0%
Future Adult Recreational User (surface soil)	**5.8E-05**	Arsenic PAH, Total PCB, Total Uranium-238	33% 12% 50% 4%	Ingestion Dermal Inhalation External exposure	32% 64% 0% 4%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**<1**	*No COCs		Ingestion Dermal Inhalation	

Table D6.22. Summary of Risk Characterization 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
Total ELCR and total HI rep	See Future Adult Recreational User					**2**	Antimony	47%	Ingestion	94%
User (surface soil)							Arsenic	14%	Dermal	6%
							Cadmium	6%	Inhalation	0%
							Iron	10%		
							Mercury	8%		
							Nickel	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 D6.23. Summary of Risk Characterization 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%	**<1**	*No COCs		Ingestion	
		PAH, Total	8%	Dermal	74%				Dermal	
		PCB, Total	58%	Inhalation	0%				Inhalation	
		Uranium-238	12%	External exposure	11%					
Outdoor Worker (surface soil)	**5.9E-05**	Arsenic	37%	Ingestion	62%	**1.3**	Antimony	63%	Ingestion	97%
		PAH, Total	6%	Dermal	33%		Arsenic	10%	Dermal	3%
		PCB, Total	47%	Inhalation	0%		Iron	9%	Inhalation	0%
		Uranium-238	10%	External exposure	5%					
Outdoor Worker (surface and subsurface soil)	**6.1E-05**	Arsenic	42%	Ingestion	64%	**1.9**	Antimony	49%	Ingestion	97%
		PAH, Total	5%	Dermal	33%		Arsenic	8%	Dermal	3%
		PCB, Total	46%	Inhalation	0%		Cadmium	6%	Inhalation	1%
		Uranium-238	6%	External exposure	3%		Iron	7%		
							Manganese	11%		
							Mercury	10%		
Excavation Worker (surface and subsurface soil)	**1.2E-05**	Arsenic	42%	Ingestion	64%	**1.9**	Antimony	49%	Ingestion	97%
		PCB, Total	46%	Dermal	33%		Arsenic	8%	Dermal	3%
				Inhalation	0%		Cadmium	6%	Inhalation	1%
				External exposure	3%		Iron	7%		
							Manganese	11%		
							Mercury	10%		

Table D6.23. Summary of Risk Characterization 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 (surface soil)	**1.5E-04**	Arsenic	28%	Ingestion	31%	**<1**	*No COCs		Ingestion	
		PAH, Total	7%	Dermal	60%				Dermal	
		PCB, Total	55%	Inhalation	0%				Inhalation	
		Uranium-238	10%	External exposure	9%					
Future Child Resident (surface soil)	See Future Adult Resident					**5.8**	Antimony	62%	Ingestion	95%
							Arsenic	11%	Dermal	5%
							Cadmium	6%	Inhalation	0%
							Iron	9%		
							Nickel	7%		
							Uranium	2%		
							Vanadium	3%		
Future Adult Recreational User (surface soil)	**6.1E-05**	Arsenic	29%	Ingestion	31%	**<1**	*No COCs		Ingestion	
		PAH, Total	8%	Dermal	67%				Dermal	
		PCB, Total	59%	Inhalation	0%				Inhalation	
		Uranium-238	4%	External exposure	3%					
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**<1**	*No COCs		Ingestion	
									Dermal	
									Inhalation	
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**2.3**	Antimony	62%	Ingestion	95%
							Arsenic	11%	Dermal	5%
							Cadmium	6%	Inhalation	0%
							Iron	9%		
Total ELCR and total HI represent total risk or hazard summed across all routes of exposure for all							Nickel	6%		

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 D6.24. Summary of Risk Characterization 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%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Outdoor Worker (surface soil)	**2.0E-06**	PAH, Total	100%	Ingestion Dermal Inhalation External exposure	52% 48% 0% 0%	**1.3**	Antimony Nickel	72% 11%	Ingestion Dermal Inhalation	99% 1% 0%
Outdoor Worker (surface and subsurface soil)	**2.1E-05**	Arsenic PAH, Total	91% 9%	Ingestion Dermal Inhalation External exposure	79% 21% 0% 0%	**1.5**	Antimony Arsenic Nickel	66% 8% 10%	Ingestion Dermal Inhalation	97% 2% 0%
Excavation Worker (surface and subsurface soil)	**4.3E-06**	Arsenic	91%	Ingestion Dermal Inhalation External exposure	79% 21% 0% 0%	**1.5**	Antimony Arsenic Nickel	66% 8% 10%	Ingestion Dermal Inhalation	97% 2% 0%

Table D6.24. Summary of Risk Characterization 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 (surface soil)	**5.7E-06**	PAH, Total	100%	Ingestion Dermal Inhalation External exposure	24% 76% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Resident (surface soil)	See Future Adult Resident					**5.6**	Antimony Cadmium Mercury Nickel Uranium	71% 6% 6% 10% 7%	Ingestion Dermal Inhalation	98% 2% 0%
Future Adult Recreational User (surface soil)	**2.6E-06**	PAH, Total	100%	Ingestion Dermal Inhalation External exposure	22% 78% 0% 0%	**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**<1**	*No COCs		Ingestion Dermal Inhalation	
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**2.2**	Antimony Cadmium Mercury Nickel Uranium	71% 6% 6% 10% 7%	Ingestion Dermal Inhalation	98% 2% 0%

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.

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