Table D8.26. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 26, 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	**9.7E-06**	Arsenic	17%	Ingestion	9%	**<1**	*No COCs		Ingestion	
(surface soil)		Cesium-137	48%	Dermal	17%				Dermal	
		Uranium-238	18%	Inhalation	0%				Inhalation	
				External exposure	74%					
Future Industrial Worker	**1.7E-04**	Arsenic	17%	Ingestion	9%	**7.3**	Arsenic	3%	Ingestion	18%
(surface soil)		PCB, Total	6%	Dermal	17%		Beryllium	2%	Dermal	81%
		Cesium-137	48%	Inhalation	0%		Cobalt	6%	Inhalation	0%
		Radium-228	6%	External exposure	74%		Iron	2%		
		Uranium-235	4%				Nickel	8%		
		Uranium-238	18%				Thallium	62%		
							Uranium	6%		
							Vanadium	9%		
Outdoor Worker	**2.3E-04**	Arsenic	37%	Ingestion	48%	**13.9**	Aluminum	0%	Ingestion	68%
(surface soil)		PCB, Total	6%	Dermal	10%		Antimony	34%	Dermal	32%
		Cesium-137	28%	Inhalation	0%		Arsenic	3%	Inhalation	0%
		Radium-228	4%	External exposure	42%		Beryllium	1%		
		Thorium-230	1%				Cobalt	3%		
		Uranium-234	3%				Iron	1%		
		Uranium-235	2%				Manganese	5%		
		Uranium-238	19%				Mercury	7%		
							Nickel	3%		
							Thallium	33%		
							Uranium	8%		
							Vanadium	2%		

Table D8.26. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 26, EU 2 (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	39%	Ingestion	51%	**21.1**	Aluminum	0%	Ingestion	48%
(surface and subsurface		PAH, Total	2%	Dermal	16%		Antimony	34%	Dermal	52%
soil)		PCB, Total	15%	Inhalation	0%		Arsenic	3%	Inhalation	0%
		Cesium-137	22%	External exposure	33%		Beryllium	1%		
		Radium-228	4%				Cobalt	3%		
		Thorium-230	0%				Iron	1%		
		Uranium-234	2%				Manganese	5%		
		Uranium-235	2%				Mercury	7%		
		Uranium-238	13%				Nickel	3%		
							Thallium	33%		
							Uranium	8%		
							Vanadium	2%		
Excavation Worker	**5.4E-05**	Arsenic	35%	Ingestion	48%	**21.1**	Aluminum	0%	Ingestion	48%
(surface and subsurface		PAH, Total	2%	Dermal	14%		Antimony	34%	Dermal	52%
soil)		PCB, Total	13%	Inhalation	0%		Arsenic	3%	Inhalation	0%
		Cesium-137	25%	External exposure	38%		Beryllium	1%		
		Radium-228	8%				Cobalt	3%		
		Uranium-238	12%				Iron	1%		
							Manganese	5%		
							Mercury	7%		
							Nickel	3%		
							Thallium	33%		
							Uranium	8%		
							Vanadium	2%		

Table D8.26. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 26, 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	**6.3E-04**	Arsenic	25%	Ingestion	19%	**18.3**	Aluminum	1%	Ingestion	20%
(surface soil)		PCB, Total	7%	Dermal	16%		Arsenic	3%	Dermal	79%
		Cesium-137	43%	Inhalation	0%		Beryllium	2%	Inhalation	0%
		Neptunium-237	<1%	External exposure	66%		Cobalt	6%		
		Radium-228	5%				Iron	2%		
		Uranium-234	1%				Nickel	8%		
		Uranium-235	3%				Thallium	63%		
		Uranium-238	16%				Uranium	6%		
							Vanadium	9%		
Future Child Resident	See Future Adult Resident					**74.6**	Aluminum	1%	Ingestion	54%
(surface soil)							Arsenic	3%	Dermal	46%
							Beryllium	1%	Inhalation	0%
							Cobalt	6%		
							Iron	2%		
							Nickel	5%		
							Thallium	68%		
							Uranium	7%		
							Vanadium	6%		

Table D8.26. Alternate Summary of Risk Characterization using KY ABS Values for SWMU 26, 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)	**1.5E-04**	Arsenic	47%	Ingestion	33%	**5.4**	Arsenic	3%	Ingestion	21%
		PCB, Total	13%	Dermal	32%		Beryllium	2%	Dermal	79%
		Cesium-137	23%	Inhalation	0%		Cobalt	6%	Inhalation	0%
		Radium-228	3%	External exposure	35%		Iron	2%		
		Uranium-234	1%				Nickel	8%		
		Uranium-235	2%				Thallium	63%		
		Uranium-238	10%				Uranium	6%		
							Vanadium	9%		
Future Teen Recreational User (surface soil)	See Future Adult Recreational User					**16.2**	Aluminum	1%	Ingestion	17%
							Arsenic	3%	Dermal	83%
							Beryllium	2%	Inhalation	0%
							Cobalt	6%		
							Iron	2%		
							Nickel	9%		
							Thallium	62%		
							Uranium	6%		
							Vanadium	10%		
Future Child Recreational User (surface soil)	See Future Adult Recreational User					**29.8**	Aluminum	1%	Ingestion	54%
							Arsenic	3%	Dermal	46%
							Beryllium	1%	Inhalation	0%
							Cobalt	6%		
							Iron	2%		
							Nickel	5%		
							Thallium	68%		
							Uranium	7%		
							Vanadium	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.