

Table 4-19. Peak Concentrations for Dedication Strategy, A- and M-Area

Waste management facility	Site number	PATHRAE - peak concentration <sup>a</sup>										Radionuclides (pCi/L) H-3	
		Chemicals (mg/L)											
		As	Ba	Cd	Ni	NO <sub>3</sub>	Trichloro-ethylene	Tetrachloro-ethylene	Tetrachloro-methane	1,1,1-trichloro-ethane			
Metals burning pit	1-2	(b)	(b)	(b)	(b)	(b)	0.1 (1978)	0.0021 (1980)	(b)	(b)	(b)	(b)	
Silverton Road waste site	1-3	(b)	(b)	(b)	(b)	(b)	0.13 (1976)	0.14 (1979)	(b)	(b)	(b)	(b)	
Metallurgical laboratory basin	1-4	(b)	(b)	(b)	(b)	(b)	0.0067 (2086)	(b)	0.38 (2086)	(b)	(b)	(b)	
Miscellaneous chemical basin	1-5	(b)	(b)	(b)	(b)	(b)	(b)	100 (2024, 2033)	(b)	(b)	(b)	(b)	
A-Area burning/rubble pits	1-6, 1-7	(b)	(b)	(b)	(b)	(b)	1.9 (1978)	(b)	(b)	(b)	(b)	(b)	
SRL seepage basins	1-8, 1-9, 1-10, 1-11	0.073 (2435)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	3.2 x 10 <sup>5</sup> (1962)	
M-Area settling basin and vicinity	1-12, 1-13	(b)	1.8 (2532)	0.018 (2570)	0.039 (2052)	2900 (2052)	18 (2058, 2059 <sup>d</sup> )	91 (2072)	(b)	1.2 (2058, 2057 <sup>d</sup> )	(b)		
Standard <sup>c</sup>		0.05	1.0	0.01	0.013	10	0.005	0.0007	0.005	0.2		8.7 x 10 <sup>4</sup>	

<sup>a</sup>Year of occurrence in parentheses. Only the constituents with peak concentrations that exceed standards at one or more waste sites are given.<sup>b</sup>Constituent did not meet threshold selection criteria for PATHRAE modeling or peak concentration is within regulatory standard.<sup>c</sup>Sources: EPA, 1985a, 1985b (tetrachloroethylene), and EPA, 1987. ICRP Publication 30 (ICRP, 1978) methodology was used to determine concentrations that yield an annual effective whole-body dose of 4 millirem per year.<sup>d</sup>At 100-meter well.

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Table 4-20. Peak Concentrations for Dedication Strategy, F- and H-Area

Waste management facility	Site number	PATHRAE - Peak chemical concentrations (mg/L) <sup>a</sup>				
		Pb	Hg	NO <sub>3</sub>	Trichloro-ethylene	Tetrachloro-ethylene
F-Area acid/caustic basin	2-1	0.054 (1971)	(b)	(b)	(b)	0.094 (1971)
H-Area acid/caustic basin	2-2	0.054 (1971)	(b)	(b)	(b)	0.094 (1971)
F-Area burning/rubble pits	2-3, 2-4	(b)	(b)	(b)	1.9 (1978)	(b)
Rad/mixed waste burial grounds	2-7, 2-8 2-9	1.9 (1957)	0.0065 (1957)	(b)	(b)	(b)
F-Area seepage basins	2-10, 2-11 2-12	(b)	(b)	1000 (1987)	(b)	(b)
F-Area seepage basin (old)	2-13	(b)	(b)	1600 (1956)	0.58	(b)
H-Area seepage basin	2-14, 2-15 2-16, 2-17	(b)	(b)	480 (1985)	(b)	(b)
Standard <sup>c</sup>		0.05	0.002	10	0.005	0.0007

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Table 4-20. Peak Concentrations for Dedication Strategy, F- and H-Area (continued)

Waste management facility	Site number	PATHRAE - Peak radionuclide concentrations (pCi/L) <sup>a</sup>												
		Sr-90	Y-90	Ni-63	Co-60	Tc-99	Cs-134	Cs-137	U-238	Pu-238	Pu-239	Np-237	H-3	I-129
H-Area retention basin	2-6	3800 (2021)	3800 (2021)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)
Rad/mixed waste burial grounds	2-7, 2-8 2-9	1000 (1957)	1000 (1957)	$4.4 \times 10^5$ (1957)	2500 (1957)	$1.3 \times 10^4$ (1957)	230 (1957)	940 (1957)	41 (1957)	670 (1957)	83 (1957)	(b)	$2.1 \times 10^9$ (1957)	(b)
F-Area seepage basins	2-10, 2-11 2-12	(b)	(b)	(b)	(b)	(b)	(b)	(b)	48 (2985)	(b)	(b)	(b)	$4.5 \times 10^7$ (1957)	88 (2036)
F-Area seepage basin (old)	2-13	(b)	(b)	(b)	(b)	(b)	(b)	(b)	310 (2370)	(b)	(b)	(b)	(b)	(b)
H-Area seepage basin	2-14, 2-15 2-16, 2-17	1800 (1975)	1800 (1975)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	0.90 (2735)	$1.9 \times 10^7$ (1956)	130 (2008)	
Standard <sup>c</sup>		42	550	$1.0 \times 10^4$	210	4200	74	110	24	14	13	0.14	$8.7 \times 10^4$	20

<sup>a</sup>Year of occurrence in parentheses. Only the constituents with peak concentrations that exceed standards at one or more waste sites are given.<sup>b</sup>Constituent did not meet threshold selection criteria for PATHRAE modeling or peak concentration is within regulatory standard.<sup>c</sup>Sources: EPA, 1985a, 1985b (tetrachloroethylene), and EPA, 1987. ICRP Publication 30 (ICRP, 1978) methodology was used to determine concentrations that yield an annual effective whole-body dose of 4 millirem per year.