

Table F-30. Environmental Data for K-Area Waste Sites

Waste site	Areal extent of site (m)	Distance to nearest wetland (m)	Area of wetlands within 200 m/1000 m (acres)	Endangered species data	Non-PATHRAE-modeled contaminants exceeding freshwater biota criteria ^a			Area of groundwater outcrop; distance (m) to outcrop	Dilution factor ^d
					Contaminant	Reported level ^b	Criterion ^c		
K-Area burning/rubble pit (131-K) ^e	9.1 x 70.1	550	0/No data available	No endangered species or suitable habitat observed within vicinity ^l	pH Cadmium Copper Iron	4.4 0.004 0.037 2.101	6.5-9.0 0.00025 0.0022 1.0	Indian Grave or Pen Branch; 1220 or 1675	4.07 x 10 ^{-5j} ; based on Pen Branch flow
K-Area acid/caustic basin (904-80G) ^f	15.2 x 15.2	650	0/No data available	No endangered species or suitable habitat observed within vicinity ^l	pH Silver Cadmium Iron	4.8 0.022 0.003 4.1	6.5-9.0 0.00015 0.00025 1.0	Indian Grave Branch; 1525	1.38 x 10 ^{-5k} ; based on Pen Branch flow
K-Area Bingham pump outage pit (643-1G) ^g	18 x 122	600	0/1.4	No endangered species or suitable habitat observed within vicinity	No data available			Pen Branch; 1675	4.86 x 10 ^{-3l}
K-Area seepage basin (904-65G) ^h	21 x 41	200	0.1/100	No endangered species or suitable habitat observed within vicinity	pH Silver Lead	4.2 0.02 0.005	6.5-9.0 0.00027 0.00015	Indian Grave Branch; 710	5.66 x 10 ⁻⁵

^aConcentrations are in milligrams per liter for chemicals and picocuries per liter for radionuclides.

^bAverage value for groundwater well containing highest concentration.

^cBased on ICRP, 1978; EPA, 1985b,c; National Technical Advisory Committee, 1968.

^dEquivalent to groundwater flux divided by flow rate of receiving stream.

^eData from Huber, Johnson, and Marine, 1987, except as otherwise indicated.

^fData from Ward, Johnson, and Marine, 1987, except as otherwise indicated.

^gData from Pekkala, Jewell, Holmes, and Marine, 1987a.

^hData from Pekkala, Jewell, Holmes, and Marine, 1987b.

ⁱData on the area not given in the site specific reference; however, based on other nearby waste sites, endangered species or suitable habitat are not expected.

^jCalculation based on groundwater flux for C-Area burning/rubble pit.

^kCalculation based on groundwater flux for L-Area acid/caustic basin.

^lCalculation based on groundwater flux for L-Area Bingham pump outage pit.