

Table F-20. Environmental Data for R-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 groundwater contaminants exceeding freshwater biota criteria <sup>a</sup>			Area of groundwater outcrop; distance (m) to outcrop	Dilution factor <sup>d</sup>
					Contaminant	Reported level <sup>b</sup>	Criterion <sup>c</sup>		
R-Area burning/rubble pit 131-R <sup>e</sup>	6.4 x 72.5	250 to Pond 4; 335 to next nearest wetland	0/No data available	No endangered species observed within vicinity; however, a former red-cockaded woodpecker colony is located within 500m <sup>i</sup>	pH Silver Cadmium Copper Iron Mercury	4.4 0.002 0.0023 0.008 2.3 0.0003	6.5-9.0 0.00032 0.00036 0.0034 1.0 0.00012	Par Pond; 1980	4.86 x 10 <sup>-4j</sup> based on Lower Three Runs Creek flow
R-Area burning/rubble pit 131-1R <sup>e</sup>	10 x 71.9	250 to Pond 4; 335 to next nearest wetland	0/No data available	No endangered species observed within vicinity; however, a former red-cockaded woodpecker colony is located within 500m <sup>i</sup>	pH Silver Cadmium Copper Iron Mercury	4.4 0.002 0.0023 0.008 2.3 0.0003	6.5-9.0 0.00032 0.00036 0.0034 1.0 0.00012	Par Pond; 1980	4.86 x 10 <sup>-4j</sup> based on Lower Three Runs Creek flow
R-Area acid/caustic basin (904-776) <sup>f</sup>	15.2 x 15.2	150	No data available	No endangered species observed within vicinity; however, a former red-cockaded woodpecker colony is located within 500 m <sup>i</sup>	pH Silver Cadmium Zinc	4.3 0.003 0.018 0.068	6.5-9.0 0.00032 0.00036 0.47	Par Pond; 1525	1.65 x 10 <sup>-4k</sup> based on Lower Three Runs Creek flow
R-Area Bingham pump outage pit 643-8G <sup>9</sup>	6 x 76	500	0/26.1 ac	No endangered species observed within vicinity; however, a former red-cockaded woodpecker colony is located about 800m SE	No data available			Joyce Branch, (drains to Par Pond); 570	6.31 x 10 <sup>-4l</sup> based on Lower Three Runs Creek flow

Footnotes on last page of table.

F-117

TC

Table F-20. Environmental Data for R-Area Waste Sites (continued)

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 groundwater contaminants exceeding freshwater biota criteria <sup>a</sup>		Area of ground-water outcrop; distance (m) to outcrop	Dilution factor <sup>d</sup>	TE
					Contaminant	Reported level <sup>b</sup>			
R-Area Bingham pump outage pit 643-96 <sup>g</sup>	5 x 76	500	0/26.1 ac	No endangered species observed within vicinity; however, a former red-cockaded woodpecker colony is located about 800m SE	No data available		Joyce Branch, (drains to Par Pond); 570	6.31 x 10 <sup>-41</sup> based on Lower Three Runs Creek flow	
R-Area Bingham pump outage pit 643-106 <sup>g</sup>	8 x 159	500	0/26.1 ac	No endangered species observed within vicinity; however, a former red-cockaded woodpecker colony is located about 800m SE	No data available		Joyce Branch, (drains to Par Pond); 570	6.31 x 10 <sup>-41</sup> based on Lower Three Runs Creek flow	
R-Area seepage basin 904-576 <sup>h</sup>	9 x 90	450	0/78.6	No endangered species observed within vicinity; however, a former red-cockaded woodpecker colony is located within 1000 m	No data available		Mill Creek (tributary to Upper Three Runs Creek); 440	3.55 x 10 <sup>-4</sup>	TC
R-Area seepage basin 904-586 <sup>h</sup>	11 x 93	450	0/78.6	No endangered species observed within vicinity; however, a former red-cockaded woodpecker colony is located within 1000 m	No data available		Mill Creek (tributary to Upper Three Runs Creek); 440	3.55 x 10 <sup>-4</sup>	

Footnotes on last page of table.

Table F-20. Environmental Data for R-Area Waste Sites (continued)

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 groundwater contaminants exceeding freshwater biota criteria <sup>a</sup>			Area of groundwater outcrop; distance (m) to outcrop	Dilution factor <sup>d</sup>
					Contaminant	Reported level <sup>b</sup>	Criterion <sup>c</sup>		
R-Area seepage basin 904-59G <sup>h</sup>	12 x 90	450	0/78.6	No endangered species observed within vicinity; however, a former red-cockaded woodpecker colony is located within 1000 m	No data available		Mill Creek (tributary to Upper Three Runs Creek); 440	3.55 x 10 <sup>-4</sup>	
R-Area seepage basin 904-60G <sup>h</sup>	14 x 150	450	0/78.6	No endangered species observed within vicinity; however, a former red-cockaded woodpecker colony is located within 1000 m	No data available		Mill Creek (tributary to Upper Three Runs Creek); 440	3.55 x 10 <sup>-4</sup>	
R-Area seepage basin 904-103G <sup>h</sup>	9 m x 120 m	450	0/78.6	No endangered species observed within vicinity; however, a former red-cockaded woodpecker colony is located within 1000 m	No data available		Mill Creek (tributary to Upper Three Runs Creek); 440	3.55 x 10 <sup>-4</sup>	

Footnotes on last page of table.

Table F-20. Environmental Data for R-Area Waste Sites (continued)

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 groundwater contaminants exceeding freshwater biota criteria <sup>a</sup>		Area of groundwater outcrop; distance (m) to outcrop	Dilution factor <sup>d</sup>
					Contaminant	Reported level <sup>b</sup> Criterion <sup>c</sup>		
R-Area seepage basin 904-104G <sup>h</sup>	14 x 40 m	450	0/78.6	No endangered species observed within vicinity; however, a former red-cockaded woodpecker colony is located within 1000 m <sup>i</sup>	No data available		Mill Creek (tributary to Upper Three Runs Creek); 440	3.55 x 10 <sup>-4</sup>

<sup>a</sup>Concentrations are in milligrams per liter for chemicals and picocuries per liter for radionuclides.

<sup>b</sup>Average value for groundwater well containing highest concentration.

<sup>c</sup>Based on ICRP 30, 1978; EPA, 1985b,c; National Technical Advisory Committee, 1968.

<sup>d</sup>Equivalent to groundwater flux divided by flow rate of receiving stream.

<sup>e</sup>Data from Huber, Johnson, and Marine, 1987, except as otherwise indicated.

<sup>f</sup>Data from Ward, Johnson, and Marine, 1987, except as otherwise indicated.

<sup>g</sup>Data from Pekkala, Jewell, Holmes, and Marine, 1987a, except as otherwise indicated.

<sup>h</sup>Data from Pekkala, Jewell, Holmes, and Marine, 1987b, except as otherwise indicated.

<sup>i</sup>Data on the area not given in site specific reference; however, statement is based on information given for the R-Area Bingham Pump Outage Pit which is located nearby.

<sup>j</sup>Calculated based on groundwater flux for C-Area burning/rubble pit.

<sup>k</sup>Calculated based on groundwater flux for L-Area acid/caustic basin.

<sup>l</sup>Calculated based on groundwater flux for L-Area Bingham pump outage pit.