

received 10/27/2014
 Project 8741
 DOC 2142481
 Pit Facility 286532
 E*P Waste facility 292833

Pond E Soil Analytical Results

		Pond E Soil Quality Data (same units as in Table 910-1)				
Contaminant of Concern	Concentration	E Center	E North	E East	E South	E West
Organic Compounds in Soil						
TPH (total volatile and extractable petroleum hydrocarbons)	500 mg/kg	20	32	21	14	25
Benzene	0.17 mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	85 mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	100 mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes (total)	175 mg/kg	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Acenaphthene	1,000, mg/kg					
Anthracene	1,000 mg/kg					
Benzo(A)anthracene	0.22 mg/kg					
Benzo(B)fluoranthene	0.22 mg/kg					
Benzo(K)fluoranthene	2.2 mg/kg					
Benzo(A)pyrene	0.022 mg/kg					
Chrysene	22 mg/kg					
Dibenzo(A,H)anthracene	0.022 mg/kg					
Fluoranthene	1,000 mg/kg					
Fluorene	1,000 mg/kg					
Indeno(1,2,3,C,D)pyrene	0.22 mg/kg					
Naphthalene	23 mg/kg					
Pyrene	1,000 mg/kg					
Organic Compounds in Ground Water						
Benzene	5 µg/l					
Toluene	560 to 1,000 µg/l					
Ethylbenzene	700 µg/l					
Xylenes (total)	1,400 - 10,000 µg/l					
Inorganics in Soils						
Electrical Conductivity (EC)	<4 mmhos/cm or 2x background	0.856	0.190	0.308	0.333	0.307
Sodium Adsorption Ratio (SAR)	<12	8.2	0.3	0.24	0.058	0.05
pH	6-9	7.9	7.0	6.5	6.9	6.3

Inorganics in Ground Water						
Total Dissolved Solids (TDS)	<1.25 x background					
Chloride	<1.25 x background					
Sulfate	<1.25 x background					
Metals in Soils						
Arsenic	0.39 mg/kg	2.1	2.7	2	2.4	2.7
Barium	15,000 mg/kg	195	196	175	190	235
Boron	2 mg/l	3	5	3	3	2
Cadmium	70 mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Chromium (III)	120,000 mg/kg	16	12	14	13	18
Chromium (VI)	23 mg/kg	< 1.33	< 1.13	< 1.18	< 1.13	< 1.15
Copper	3,100 mg/kg	16	12	13	17	23
Lead (inorganic)	400 mg/kg	14	18	13	13	15
Mercury	23 mg/kg	0.0196	0.0211	0.0204	0.0138	0.0373
Nickel	1,600 mg/kg	12.5	9	11	11.8	17.8
Selenium	390 mg/kg	< 5	< 5	< 5	< 5	< 5
Silver	390 mg/kg	< 1	< 1	< 1	< 1	< 1
Zinc	23,000 mg/kg	66	69	58	62	72
Liquid Hydrocarbons in Soils and Ground Water						
Liquid hydrocarbons including condensate and oil	Below detection level	ND	ND	ND	ND	ND

ND - not detected through visual inspection.