TABLE 2D
Screening of Organic Chemicals in RZ-D Using LBCLs and LSSLs

Parameter of Interest	Chemical Name	Count	Detection Count	Detection Frequency	Maximum Detection (mg/kg)	Count of Detections Above RBGC in Groundwater[4]	LBCL (DAF 1)[6] (mg/kg)	Detects >LBCL (DAF 1)	LBCL (DAF 20)[6] (mg/kg)	Detects >LBCL (DAF 20)	LSSL[3] (mg/kg)	Total Detections >LSSL[5]
Organochlorine Pesticides	4,4'-DDE	112	21	19%	9.4	0	3.0E+00	1	6.0E+01	0	5.6E+02	0
	4,4'-DDT	112	19	17%	2.7	0	2.0E+00	1	4.0E+01	0	3.3E+02	0
	Alpha-BHC	112	13	12%	0.96	29	3.0E-05	13	6.0E-04	13	2.2E-03	9
	Beta-BHC	112	52	46%	2.5	8	1.0E-04	52	2.0E-03	47	1.7E-03	47
	Gamma-BHC (Lindane)	112	6	5%	0.32	3	5.0E-04	6	1.0E-02	5	3.3E-02	4
SVOCs	Hexachlorobenzene	167	101	60%	130	0	1.0E-01	48	2.0E+00	17	4.9E+00	15
VOCs	1,2-Dichloroethane	162	4	2%	0.003	3	1.0E-03	2	2.0E-02	0	NC	--
	Benzene	162	7	4%	0.013	11	2.0E-03	2	4.0E-02	0	5.1E-01	0
	Chloroform	162	70	43%	0.48	87	3.0E-02	7	6.0E-01	0	5.9E-02	7
	Methylene chloride	162	50	31%	0.0039	4	1.0E-03	23	2.0E-02	0	3.5E-01	0
	Trichloroethene	162	14	9%	0.004	11	3.0E-03	1	6.0E-02	0	NC	--

Notes:

1 - Shading indicates that the chemical is screened out from further evaluation.

2 - Chemicals shown that have at least one detection above the LBCL (DAF=1).

3 - LSSLs are calculated for chemicals with at least one detection greater than the LBCL (DAF=20) in any remediation zone. They are based on an infiltration=0.14 ft/y and an foc=0.001.

4 - Groundwater exceedances are based on the highest result from each well sampled during Sitewide Phase B investigations.

5 - Soil statistics use Phase A and Phase B investigation data from the quaternary alluvium. Normal environmental samples and field duplicates are treated as independent samples.

6 - Generic LBCLs are used for chemicals without an established LBCL (See Attachment 3 Table 2B).

Abbreviations:

DAF = Dilution attenuation factor (NDEP, 2009)

LBCL = Leaching-based, basic comparison level (NDEP, 2009)

LSSL = Leaching-based, site-specific level (NDEP, 2009)

NC = LSSL not calculated

NE = Value not established

RBGC = Risk-based groundwater concentration

mg/kg = milligrams per kilogram

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