

TABLE 1C
Screening of Inorganic Chemicals in RZ-D Using LBCLs and LSSLs

Parameter of Interest	Chemical Name	Depth Interval	Count	Detection Count	Detection Frequency	Maximum Detection (mg/kg)	Count of Detections Above RBGC in Groundwater ⁵	LBCL (DAF 1) ³ (mg/kg)	Detections > LBCL ⁶ (DAF 1)	LBCL (DAF 20) ³ (mg/kg)	Detections > LBCL ⁶ (DAF 20)	LSSL ⁴ (mg/kg)	Total Detections > LSSL ⁶
Metals	Arsenic	0 - 2 ft	65	65	100%	11	96	1.0E+00	65	2.0E+01	0	4.6E+01	0
	Arsenic	2 - 10 ft	63	63	100%	13		1.0E+00	63	2.0E+01	0	4.6E+01	0
	Barium	0 - 10 ft	128	128	100%	1780	0	8.2E+01	128	1.6E+03	1	2.4E+04	0
	Barium	10 ft - UMCf	55	55	100%	830		8.2E+01	46	1.6E+03	0	2.4E+04	0
	Boron	0 - 10 ft	128	37	29%	551	18	2.3E+01	8	4.7E+02	1	4.0E+03	0
	Chromium (Total)	0 - 2 ft	65	65	100%	157	48	2.0E+00	65	4.0E+01	1	3.8E+03	0
	Chromium (VI)	10 ft - UMCf	55	14	25%	3.06	46	2.0E+00	1	4.0E+01	0	6.4E+02	0
	Magnesium	0 - 2 ft	65	65	100%	76000	49	9.7E+02	65	1.9E+04	8	6.0E+04	2
	Magnesium	2 - 10 ft	63	63	100%	16600		9.7E+02	63	1.9E+04	0	6.0E+04	0
	Manganese	0 - 10 ft	128	128	100%	2470	18	3.3E+01	128	6.7E+02	9	2.4E+03	1
	Molybdenum	0 - 2 ft	65	65	100%	10	2	3.6E+00	2	7.3E+01	0	1.7E+03	0
Strontium	2 - 10 ft	63	63	100%	1570	6	7.7E+02	1	1.5E+04	0	NC	0	
Perchlorate	Perchlorate	0 - 10 ft	128	122	95%	19300	84	3.6E-03	122	7.2E-02	121	4.2E-02	122
	Perchlorate	10 ft - UMCf	55	47	85%	381		3.6E-03	47	7.2E-02	47	4.2E-02	47

Notes:

- 1 - Shading indicates that the chemical is screened out from further evaluation.
- 2 - Metals shown for only the depth intervals which exceed background based on the comparison with the RZ-A dataset (see Attachment 2 Table 2C) and exceed the LBCL for DAF=1.
- 3 - The generic LBCL is used for chemicals without an established LBCL. Where applicable, the adjusted LBCL is used based on the NDEP approved hierarchy for RBGCs (See Attachment 3 Table 2A).
- 4 - 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.
- 5 - Groundwater exceedances are based on the highest result from each well sampled during Site-wide Phase B investigations.
- 6 - Soil statistics use Phase A and Phase B investigation data. Normal environmental samples and field duplicates are treated as independent samples.

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
 RBGC = Risk-based groundwater concentration
 mg/kg = milligrams per kilogram