

OBED MOUNTAIN MINE
TABLE 1 SOIL/SEDIMENT CHEMISTRY

	Unit	MDL	Location	ENV102R	ENV105R	ENV106R	ENV112R	ENV118L	ENV123L	ENV127L	ENV128L	ENV129L	ENV132L	ENV133L	ENV135L	ENV138L	ENV142R
			Date	9-Nov-13	9-Nov-13	9-Nov-13	9-Nov-13	9-Nov-13	9-Nov-13	9-Nov-13	9-Nov-13	9-Nov-13	9-Nov-13	9-Nov-13	9-Nov-13	9-Nov-13	9-Nov-13
			Sediment/Soil	Sediment	Sediment	Sediment	Sediment	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Leachable Metals																	
Barium	mg/kg	5		46.6	41.3	48.1	49.1	54.7	60.1	53	36.1	44.1	151	36.6	50.8	32.6	43.3
Boron (B), Hot Water Ext.	mg/kg	0.1		0.56	0.61	0.87	0.8	1.48	0.71	1.24	0.22	0.52	2.61	0.5	1.88	0.26	1.34
Metals																	
Aluminium	mg/kg	50		6380	7840	6700	8630	5880	7360	6800	7780	6610	3620	5910	5870	5750	6320
Antimony	mg/kg	0.1		0.37	0.26	0.36	0.31	0.43	0.42	0.31	0.18	0.23	0.14	0.36	0.41	0.23	0.38
Arsenic	mg/kg	0.1		8.36	4.91	5.8	5.61	6.98	6.57	5.28	4.73	5.44	4.99	6.21	6.19	5.21	7.02
Barium	mg/kg	0.5		211	207	314	363	374	526	291	119	171	607	222	331	264	287
Beryllium	mg/kg	0.2		0.61	0.36	0.55	0.45	0.74	0.64	0.42	0.34	0.38	0.22	0.41	0.65	0.27	0.56
Bismuth	mg/kg	0.2		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cadmium	mg/kg	0.1		0.52	0.33	0.27	0.25	0.29	0.36	0.26	0.17	0.22	0.22	0.15	0.24	0.25	0.22
Calcium	mg/kg	100		10,100	8920	11,100	10,400	11,700	14,900	9900	4550	6690	27,700	7320	11,600	11,200	10,300
Chromium (III+VI)	mg/kg	0.5		12.6	12.5	11.3	12.9	10	9.09	11.1	13.2	11.7	5.61	10.5	10.1	10.1	11.3
Cobalt	mg/kg	0.1		7.64	6.21	6.32	6.33	6.18	5.07	6.05	6.11	7.46	6.5	6.55	5.53	5.55	6.74
Copper	mg/kg	0.5		14.8	10.6	12.5	11.8	15.1	13.7	10.9	8.08	9.51	5.95	8.51	13.5	7.48	12
Iron	mg/kg	50		14,100	13,600	11,700	13,400	10,400	9610	11,900	14,100	13,500	29,700	11,900	10,400	12,600	12,000
Lead	mg/kg	0.5		9.42	7.67	9.29	9.89	11.2	12.1	8.39	6.75	7.79	5.03	7.27	9.57	6.43	8.93
Lithium	mg/kg	0.5		7.51	8.02	8.36	8.83	7.16	6.37	7.79	8.87	8.64	5.43	6.58	7.25	7.44	7.79
Magnesium	mg/kg	20		3010	3300	3230	3960	2880	3360	3200	2950	3130	2690	2960	2960	3400	3230
Manganese	mg/kg	1		382	557	396	432	353	304	336	372	513	5300	395	332	310	370
Mercury	mg/kg	0.005		0.0388	0.0425	0.0505	0.0415	0.0603	0.0618	0.0468	0.0236	0.031	0.0624	0.0272	0.0461	0.0356	0.0344
Molybdenum	mg/kg	0.1		0.87	0.69	1.04	0.82	1.4	1.45	0.85	0.53	0.58	1.32	0.75	1.33	0.54	1.06
Nickel	mg/kg	0.5		19	16.4	16.6	17	16.5	14.1	16	14.9	16.7	8.88	15.7	15.7	14.7	17.6
Phosphorus	mg/kg	50		410	507	430	485	391	363	430	503	413	852	354	411	510	390
Potassium	mg/kg	50		449	589	488	684	392	525	515	463	442	265	482	389	484	477
Selenium	mg/kg	0.2		0.45	0.39	0.52	0.45	0.64	0.7	0.43	0.22	0.3	0.4	0.25	0.5	0.24	0.35
Silver	mg/kg	0.2		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Sodium	mg/kg	100		260	270	430	420	550	860	370	<100	170	510	250	490	180	390
Strontium	mg/kg	1		75.8	60.6	109	94.5	144	201	89.8	32.8	50.9	92.5	60.6	129	57.4	94.8
Thallium	mg/kg	0.05		0.107	0.106	0.151	0.128	0.177	0.179	0.121	0.082	0.094	0.06	0.107	0.159	0.11	0.156
Tin	mg/kg	2		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Titanium	mg/kg	1		85.3	52.5	119	82.9	194	183	96.9	48.2	54.2	32.3	127	203	57.5	155
Uranium	mg/kg	0.05		1.79	1.23	1.95	1.65	2.37	3.17	1.61	0.836	1.04	1.1	0.983	2.07	1.02	1.63
Vanadium	mg/kg	0.2		20	19.1	19.4	19	20.3	18.3	18	19.9	17.7	8.45	17.5	19.9	14.8	19.8
Zinc	mg/kg	5		39.3	47.1	45	50.6	40.6	47	43.6	40.6	41.2	28.8	35.3	38.4	37.3	41.3
Organic / Inorganic Carbon																	
CaCO3 Equivalent	%	0.8		1.22	0.86	1.24	1.41	1.36	1.37	1.23	<0.8	0.98	1.73	1.71	1.34	1.94	1.4
Inorganic Carbon	mg/kg	0.1		0.15	0.1	0.15	0.17	0.16	0.16	0.15	<0.1	0.12	0.21	0.21	0.16	0.23	0.17
Total Carbon by Combustion	%	0.1		4.3	5.8	11.4	7.2	22.3	19.6	11.5	1.3	2.5	16.1	8.6	24.4	2.7	11.9
Particle Size																	
Clay % Texture	% by weight	1		11.4	12.4	12.4	18.4	12.8	23.4	12.4	8	11.6	12.8	9.4	12.2	10	10.4
Sand % Texture	% by weight	1		81	61.2	60.8	42.8	56	46	64.8	75	70.8	42.8	80.8	64.2	73.4	71.8
Silt % Texture	% by weight	1		7.6	26.4	26.8	38.8	31.2	30.6	22.8	17	17.6	44.4	9.8	23.6	16.6	17.8
Physical Tests																	
Moisture	%	0.1		27.8	45.6	36.9	45.8	39.5	49.1	49.6	18.3	24.9	44.8	18.8	33.4	30.9	48.7
Saturated Paste Extractables																	
Calcium	mg/kg	5		61.5	68.9	61.3	79.1	76	95.8	50.4	49.9	49.5	-	60.4	76.1	50.5	58.1
Saturation Percentage	%	1		46.7	99.8	63.8	61.7	65	85.1	84.3	35.7	50.5	-	36.4	62.9	44.5	53
Electrical Conductivity (lab)	dS/m	0.01		0.806	0.705	0.875	0.944	0.943	1.26	0.75	0.482	0.562	-	0.89	1.03	0.555	0.88
Magnesium	mg/kg	3		12.2	14.2	12.7	15.6	16	18.9	10.4	8	9.9	-	12.5	15.9	9.5	12.1
pH (Lab)	pH	0.1		7.14	7.12	7.17	7.42	7.19	7.41	7.18	6.71	7.06	-	7.33	7.07	7.41	7.17
Potassium	mg/kg	2		3.6	4.2	5.1	5.3	6.2	9.6	4.2	<2	3.2	-	5.4	5.9	4.4	5.4
Sodium	mg/kg	2		99.1	81	119	121	153	182	96.1	39.5	64.1	-	126	132	47.4	125
Sodium Adsorption Ratio	---	0.1		3.02	2.32	3.6	3.27	4.15	4.45	3.22	1.37	2.18	-	3.86	3.59	1.6	3.9
Speciated Metals																	
Chromium (hexavalent)	mg/kg	0.1		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

MDL Method Detection Limit
< Non Detect. Concentration is below the MDL.