

OBED MOUNTAIN MINE  
TABLE 3 PLANTE CREEK DOWNSTREAM (PLC-DS)

Method Type	Chemical	Unit	MDL	Location	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS
				Date	01-Nov-13	01-Nov-13	02-Nov-13	03-Nov-13	04-Nov-13	05-Nov-13	06-Nov-13	07-Nov-13	08-Nov-13
Aggregate Organics	Hydrocarbons, Recoverable (I.R.)	mg/L	1	-	-	-	-	-	-	<1	<1	<1	<1
	BOD	mg/L	2	-	-	<2	<2	<2	<2	<2	<2	<2	<2
	Oil and Grease	mg/L	1	1.8	1.3	<1	<1	<1	-	-	-	-	-
	Phenols (4AAP)	µg/L	1	11.5	10.1	4.3	<1	<1	<1 - 1.2	1.5	<1	<1	<1
Anions and Nutrients	Alkalinity (T) as CaCO3	mg/L	2	253	207	219	231	248	259 - 267	274	248 - 258	246	246
	Ammonia	mg/L	0.05	1.43	0.851	0.205	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Bicarbonate	mg/L	5	308	253	267	282	302	316 - 325	334	302 - 315	300	300
	Carbonate	mg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	Chloride	mg/L	0.5	2.52	2.38	1.04	0.63	0.56	0.59 - 0.6	0.64	0.51 - 0.59	0.52	0.52
	Electrical Conductivity (lab)	dS/m	0.0002	0.721	0.711	0.517	0.471	0.498	0.506 - 0.516	0.539	0.495 - 0.5	0.474	0.474
	Hydroxide	mg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	Ionic Balance	%		94.2	107	102	97.4	104	101 - 102	100	97.6 - 99.2	98.6	98.6
	Kjeldahl Nitrogen Total	mg/L	0.05	118	109	7.62	0.36	0.402	0.26 - 0.28	0.26	0.2 - 0.31	<0.2	<0.2
	Nitrate (as N)	mg/L	0.05	0.521	0.492	0.166	0.086	0.061	0.076 - 0.078	0.076	0.066 - 0.069	0.081	0.081
	Nitrate + Nitrite-N	mg/L	0.07	0.521	0.492	-	0.086	<0.071	0.076 - 0.078	0.076	<0.071	0.081	0.081
	Nitrite (as N)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	pH (Lab)	pH		8.15	8.14	8.21	8.23	8.22	8.24 - 8.25	8.23	8.18 - 8.2	8.1	8.1
	Phosphorus	mg/L	0.001	11.6	10.6	1.14	0.075	0.058	0.031 - 0.0385	0.0536	0.02 - 0.0592	0.0287	0.0287
	Phosphorus (Filtered)	mg/L	0.001	-	-	-	-	-	0.0025 - 0.0029	0.0051	0.0012 - 0.0039	0.0014	0.0014
	Sulphate	mg/L	0.5	149	155	56.2	32.3	29.8	26.1 - 26.3	30.3	23.6 - 24.3	23.2	23.2
	Sulphide	mg/L	0.002	0.465	0.589	<0.008	0.0024	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	Hardness as CaCO3	mg/L		151	157	194	212	242	252 - 256	257	233 - 238	230	230
	TDS	mg/L		469	452	301	269	288	291 - 298	310	275 - 283	271	271
	Cyanides	Cyanide Total	mg/L	0.002	-	<0.02	<0.002	<0.002	<0.002	<0.005	<0.005	<0.005	<0.002
Aluminium (Filtered)		mg/L	0.001	-	-	0.0082	-	<0.01	0.005 - 0.0197	0.0039	0.0044 - 0.0081	0.0051	0.0051
Dissolved Metals	Antimony (Filtered)	mg/L	0.0001	-	-	<0.0005	-	<0.0004	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Arsenic (Filtered)	mg/L	0.0001	-	-	0.00081	-	0.00041	0.00044	0.00048	0.00044 - 0.00045	0.00038	0.00038
	Barium (Filtered)	mg/L	0.00005	-	-	0.113	-	0.108	0.112 - 0.114	0.117	0.104 - 0.108	0.102	0.102
	Beryllium (Filtered)	mg/L	0.0005	-	-	<0.0025	-	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	Bismuth (Filtered)	mg/L	0.00005	-	-	<0.00025	-	-	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Boron (hot water ext) (Filtered)	mg/L	0.01	-	-	<0.05	-	-	<0.05	<0.01	0.01	<0.01	<0.01
	Cadmium (Filtered)	mg/L	0.00001	-	-	<0.00005	-	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	Calcium (Filtered)	mg/L	0.02	45.2	47.2	56.6	59.2	69.9	72.4 - 73.8	72.1	66 - 68.4	65.6	65.6
	Chromium (III+VI) (Filtered)	mg/L	0.0001	-	-	<0.0005	-	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Cobalt (Filtered)	mg/L	0.0001	-	-	<0.0005	-	<0.002	<0.0001	0.00011	<0.0001	<0.0001	<0.0001
	Copper (Filtered)	mg/L	0.0001	-	-	0.0008	-	<0.001	0.00023 - 0.00031	0.00035	0.00026 - 0.00032	0.00026	0.00026
	Iron (Filtered)	mg/L	0.01	-	-	<0.05	-	<0.01	<0.01 - 0.012	<0.01	0.01 - 0.011	<0.01	<0.01
	Lead (Filtered)	mg/L	0.00005	-	-	<0.00025	-	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Lithium (Filtered)	mg/L	0.003	-	-	<0.015	-	0.0072	0.0075 - 0.0076	0.0075	0.0054 - 0.0059	0.006	0.006
	Magnesium (Filtered)	mg/L	0.005	9.3	9.42	12.8	15.5	16.5	17.2 - 17.3	18.8	16 - 16.9	16.1	16.1
	Manganese (Filtered)	mg/L	0.00005	-	-	0.0684	-	0.0358	0.029 - 0.0304	0.031	0.0231 - 0.025	0.0179	0.0179
	Molybdenum (Filtered)	mg/L	0.00005	-	-	0.0023	-	<0.005	0.000942 - 0.000946	0.00106	0.000995 - 0.00104	0.000847	0.000847
	Nickel (Filtered)	mg/L	0.0001	-	-	0.00063	-	<0.002	0.00051 - 0.00053	0.00055	0.00044 - 0.00045	0.00043	0.00043
	Phosphorus (Filtered)	mg/L	0.3	-	-	<1.5	-	-	<0.3	<0.3	<0.3	<0.3	<0.3
	Potassium (Filtered)	mg/L	0.05	3.48	3.2	1.46	0.98	0.99	0.933 - 0.936	1.09	0.93 - 1.13	0.85	0.85
	Selenium (Filtered)	mg/L	0.0001	-	-	<0.0005	-	<0.0004	0.00017 - 0.00019	0.00019	0.00018 - 0.0002	0.00016	0.00016
	Silicon (Filtered)	µg/L	50	-	-	4270	-	-	5390 - 5570	5150	4260 - 4310	4340	4340
	Silver (Filtered)	mg/L	0.00001	-	-	<0.00005	-	<0.0001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	Sodium (Filtered)	mg/L	0.05	105	108	40.4	21.3	21.4	18.4 - 18.7	22.3	17.1 - 17.8	16.7	16.7
	Strontium (Filtered)	mg/L	0.0001	-	-	0.672	-	-	0.483 - 0.487	0.476	0.44 - 0.46	0.412	0.412
	Thallium (Filtered)	mg/L	0.00005	-	-	<0.00025	-	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Tin (Filtered)	mg/L	0.0001	-	-	<0.0005	-	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Titanium (Filtered)	mg/L	0.0003	-	-	<0.0015	-	<0.001	<0.0003 - 0.00044	<0.0003	<0.0003	<0.0003	<0.0003
	Uranium (Filtered)	µg/L	0.01	-	-	2.92	-	1.4	1.31 - 1.35	1.5	1.41 - 1.44	1.3	1.3
	Vanadium (Filtered)	mg/L	0.0001	-	-	0.00071	-	<0.001	0.00029 - 0.00031	0.00036	0.00026 - 0.00028	0.00026	0.00026
	Zinc (Filtered)	mg/L	0.001	-	-	0.0157	-	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001
	Field	Turbidity	NTU	-	-	-	65	43.3	-	44.1	-	-	-
Carbon		mg/L	1	-	-	-	-	-	7 - 7.1	10.3	5.5 - 5.8	4.4	4.4
Organic / Inorganic Carbon	Dissolved Organic Carbon (Filtered)	mg/L	1	-	-	-	-	-	5.2	5.3	4.6 - 4.8	4.4	4.4
	Naphthenic Acid	mg/L	1	-	-	-	-	-	<1	<1	<1	<1	<1
Physical Tests	Dissolved Oxygen (Filtered)	mg/L	0.5	-	-	1.16	-	>20	-	-	-	-	-
	TDS (Filtered)	mg/L	10	-	-	-	-	-	334 - 349	335	309 - 322	316	316
	Total Suspended Solids	mg/L	3	92,100	81,400	6540	182	116	60 - 137	150	36 - 166	63	63
	Turbidity	NTU	0.1	>4000	>4000	>4000	73	54.4	40.9 - 49.3	71.5	24.1 - 47.6	26.9	26.9
Polycyclic Aromatic Hydrocarbons	Benzo[ <i>b</i> ]fluoranthene	mg/L	0.00001	-	-	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	C4 Benzantracenes/Chrysenes	µg/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04	<0.04

Notes  
MDL - Method Detection Limit  
- "Sample not analyzed for this parameter"  
< - "result is less than the MDL. No detectable concentration was measured"  
\* EPA 245.7/245.1

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			Location	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS
			Date	01-Nov-13	01-Nov-13	02-Nov-13	03-Nov-13	04-Nov-13	05-Nov-13	06-Nov-13	07-Nov-13	08-Nov-13
Method Type	Chemical	Unit	MDL									
	C4 Dibenzothiophenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	C4 Fluoranthenes/Pyrenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	C4 Naphthalenes	ug/L	0.04	-	-	-	-	-	0.041 - 0.204	<0.04	<0.04 - 0.065	<0.04
	C4 Phenanthrenes/Anthracenes	ug/L	0.04	-	-	-	-	-	0.213 - 1.38	0.157	0.131 - 0.481	0.111
	1,1-Biphenyl	ug/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01
	1-Methylnaphthalene	ug/L	0.01	-	-	-	-	-	<0.01 - 0.032	<0.01	<0.01	<0.01
	2-methylnaphthalene	ug/L	0.01	-	-	-	-	-	<0.01 - 0.029	<0.01	<0.01	<0.01
	Acenaphthene	ug/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01
	Acenaphthylene	ug/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01
	Anthracene	ug/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.04	<0.04
	Benz(a)anthracene	ug/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01
	Benzo(a) pyrene	ug/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01
	Acridine	mg/L	0.00001	-	-	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001
	Benzo(e)pyrene	ug/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01
	Benzo(g,h,i)perylene	ug/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01
	Benzo(k)fluoranthene	ug/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01
	C1 Acenaphthenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	C1 Benz(a)Anthracenes/Chrysenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	C1 Benzofluoranthenes/Benzopyrenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	Chrysene	ug/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01
	C1 Biphenyls	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	C1 Dibenzothiophenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	C1 Fluoranthenes/Pyrenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	C1 Fluorenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	C1 Phenanthrenes/Anthracenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	Dibenz(a,h)anthracene	ug/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01
	Dibenzothiophene	ug/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01
	Fluoranthene	ug/L	0.01	-	-	-	-	-	<0.01 - 0.013	<0.01	<0.01	<0.01
	Fluorene	ug/L	0.01	-	-	-	-	-	<0.01 - 0.015	<0.01	<0.01	<0.01
	Indeno(1,2,3-c,d)pyrene	ug/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01
	Naphthalene	ug/L	0.05	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05
	Perylene	ug/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01
	Phenanthrene	ug/L	0.01	-	-	-	-	-	<0.01 - 0.027	<0.01	<0.01	<0.01
	Pyrene	ug/L	0.01	-	-	-	-	-	<0.01 - 0.014	<0.01	<0.04	<0.04
	Quinoline	ug/L	0.01	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01
	Retene	ug/L	0.01	-	-	-	-	-	0.213 - 1.38	0.157	0.131 - 0.481	0.111
	C2 Benz(a)Anthracenes/Chrysenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	C2 Benzofluoranthenes/Benzopyrenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	C2 Biphenyls	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	C2 Dibenzothiophenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	C2 Fluoranthenes/Pyrenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	C2 Naphthalenes	ug/L	0.04	-	-	-	-	-	<0.04 - 0.13	<0.04	<0.04	<0.04
	C2 Phenanthrenes/Anthracenes	ug/L	0.04	-	-	-	-	-	<0.04 - 0.06	<0.04	<0.04	<0.04
	C2 Fluorenes	ug/L	0.04	-	-	-	-	-	<0.04 - 0.048	<0.04	<0.04	<0.04
	C3 Benzantracenes/Chrysenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	C3 Dibenzothiophenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	C3 Fluoranthenes/Pyrenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	C3 Fluorenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
	C3 Naphthalenes	ug/L	0.04	-	-	-	-	-	0.047 - 0.184	<0.04	<0.04 - 0.047	<0.04
	C3 Phenanthrenes/Anthracenes	ug/L	0.04	-	-	-	-	-	<0.04	<0.04	<0.04	<0.04
Speciated Metals	Chromium (hexavalent)	mg/L	0.001	<0.001	<0.001	-	-	-	-	-	-	-
Total Metals	Aluminium	mg/L	0.003	361	222	41.1	1.91	1.53	1.31 - 1.33	1.61	0.657 - 1.43	0.533
	Antimony	mg/L	0.0001	<0.001	<0.001	<0.0005	<0.0004	<0.0004	<0.0001	0.00011	<0.0001	<0.0001
	Arsenic	mg/L	0.0001	0.288	0.17	0.0294	0.00164	0.00116	0.00091 - 0.00094	0.00149	0.00079 - 0.00139	0.00069
	Barium	mg/L	0.00005	42.9	22.7	4.65	0.257	0.223	0.169 - 0.174	0.256	0.144 - 0.234	0.156
	Beryllium	mg/L	0.0005	0.0432	0.0202	0.0032	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005
	Bismuth	mg/L	0.00005	-	-	-	-	-	<0.00005	<0.00005	<0.00005	<0.00005
	Boron (hot water ext)	mg/L	0.01	0.48	0.26	0.058	<0.05	<0.05	<0.01 - 0.01	0.011	<0.01 - 0.01	<0.01
	Cadmium	mg/L	0.00001	0.0214	0.00868	0.00145	0.000068	<0.00005	0.000024 - 0.000026	0.000052	0.000019 - 0.000054	0.000025
	Calcium	mg/L	0.02	1180	690	125	63.9	68.6	67.6 - 71.6	72.9	65.8 - 72	63.2
	Chromium (III+VI)	mg/L	0.0001	0.369	0.206	0.0323	<0.005	<0.005	0.00089 - 0.00091	0.00155	0.00058 - 0.00148	0.00085
	Cobalt	mg/L	0.0001	0.287	0.148	0.0193	<0.002	<0.002	0.00041	0.00079	0.00035 - 0.00076	0.00035
	Copper	mg/L	0.0001	0.782	0.383	0.0756	0.0037	0.0019	0.00141 - 0.00151	0.00255	0.00139 - 0.00259	0.00138
	Iron	mg/L	0.01	475	276	42.1	2.21	1.43	1.02 - 1.11	1.85	0.79 - 1.66	0.733
	Lead	mg/L	0.00005	1.09	0.419	0.0789	0.00309	0.0018	0.00113 - 0.00121	0.00264	0.000944 - 0.0025	0.00109
	Lithium	mg/L	0.005	0.496	0.265	0.042	<0.01	<0.01	0.0072 - 0.0078	0.0085	0.0067 - 0.0073	0.0055

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Method Type	Chemical	Unit	MDL										
	Magnesium	mg/L	0.005	274	159	34.8	15.8	15.9	16.1 - 16.8	17.9	15.4 - 16.8	15.1	
	Manganese	mg/L	0.0005	14.8	9	0.888	0.0736	0.0596	0.044 - 0.0448	0.0647	0.0363 - 0.0581	0.0333	
	Mercury	ug/L	0.0005	<0.1*	<0.1*	<0.1*	<0.1*	<0.1*	<0.02 - 0.0066	0.0055	0.0043 - 0.0068	0.0055	
	Molybdenum	mg/L	0.00005	0.0066	<0.005	<0.005	<0.005	<0.005	0.000901 - 0.000944	0.000986	0.000957 - 0.00106	0.000833	
	Nickel	mg/L	0.0001	0.738	0.383	0.0542	0.0034	<0.002	0.00136 - 0.00142	0.00247	0.00118 - 0.00242	0.00145	
	Phosphorus	mg/L	0.3	-	-	-	-	-	<0.3	<0.3	<0.3	<0.3	
	Potassium	mg/L	0.05	65.4	32.2	6.32	1.26	1.15	1.07 - 1.08	1.33	0.979 - 1.33	0.913	
	Selenium	mg/L	0.0001	0.0189	0.0108	0.00213	<0.0004	<0.0004	0.00018 - 0.0002	0.00021	0.00018 - 0.00021	0.00017	
	Silicon	ug/L	50	-	-	-	-	-	7920 - 8030	7600	5790 - 7110	5060	
	Silver	mg/L	0.00001	0.01	0.00384	0.00072	<0.0001	<0.0001	0.000012 - 0.000014	0.000026	<0.00001 - 0.000022	0.00001	
	Sodium	mg/L	0.05	177	150	41.8	20.4	19.9	18 - 18.2	20	17.7 - 19.1	16.6	
	Strontium	mg/L	0.0001	-	-	-	-	-	0.473 - 0.497	0.511	0.427 - 0.474	0.393	
	Thallium	mg/L	0.00005	0.00723	0.00353	0.00066	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	
	Tin	mg/L	0.0001	<0.05	<0.05	<0.05	<0.05	<0.05	<0.0001	0.00012	<0.0001	0.00014	
	Titanium	mg/L	0.0003	0.216	0.262	0.17	0.0496	0.038	0.0336 - 0.0339	0.047	0.0189 - 0.0418	0.018	
	Uranium	ug/L	0.01	236	86	20.9	1.84	1.67	1.56 - 1.61	1.86	1.6 - 1.82	1.41	
	Vanadium	mg/L	0.0001	0.599	0.338	0.0556	0.0035	0.0024	0.00188 - 0.0019	0.00299	0.00141 - 0.00262	0.00125	
	Zinc	mg/L	0.003	3.89	1.73	0.306	0.033	0.0091	0.0063 - 0.0066	0.0124	0.0046 - 0.0131	0.0406	
Volatile Organic Compounds	1,1,1-trichloroethane	ug/L	1	-	-	-	-	-	<1	<1	<1	<1	
	1,1,2,2-tetrachloroethane	ug/L	20	-	-	-	-	-	<20	<20	<20	<20	
	1,1,2-trichloroethane	ug/L	2	-	-	-	-	-	<2	<2	<2	<2	
	1,1-dichloroethane	ug/L	1	-	-	-	-	-	<1	<1	<1	<1	
	1,1-dichloroethene	ug/L	1	-	-	-	-	-	<1	<1	<1	<1	
	1,2,3-trichloropropane	ug/L	5	-	-	-	-	-	<5	<5	<5	<5	
	1,2-dibromoethane	ug/L	1	-	-	-	-	-	<1	<1	<1	<1	
	1,2-dichlorobenzene	ug/L	1	-	-	-	-	-	<1	<1	<1	<1	
	1,2-dichloroethane	ug/L	2	-	-	-	-	-	<2	<2	<2	<2	
	1,2-dichloropropane	ug/L	2	-	-	-	-	-	<2	<2	<2	<2	
	1,3-dichlorobenzene	ug/L	1	-	-	-	-	-	<1	<1	<1	<1	
	1,4-dichlorobenzene	ug/L	1	-	-	-	-	-	<1	<1	<1	<1	
	Methyl Ethyl Ketone	ug/L	100	-	-	-	-	-	<100	<100	<100	<100	
	2-hexanone (MBK)	ug/L	10	-	-	-	-	-	<10	<10	<10	<10	
	4-Methyl-2-pentanone	ug/L	10	-	-	-	-	-	<10	<10	<10	<10	
	Acetone	mg/L	0.1	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	
	Acrolein	ug/L	100	-	-	-	-	-	<100	<100	<100	<100	
	Acrylonitrile	ug/L	100	-	-	-	-	-	<100	<100	<100	<100	
	Benzene	mg/L	0.0005	<0.0005	0.00061	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001
	Toluene	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001
	Bromodichloromethane	ug/L	1	-	-	-	-	-	-	<1	<1	<1	<1
	Bromoform	ug/L	3	-	-	-	-	-	-	<3	<3	<3	<3
	Bromomethane	ug/L	10	-	-	-	-	-	-	<10	<10	<10	<10
	Carbon disulfide	ug/L	1	-	-	-	-	-	-	<1	<1	<1	<1
	Carbon tetrachloride	ug/L	1	-	-	-	-	-	-	<1	<1	<1	<1
	Chlorobenzene	ug/L	1	-	-	-	-	-	-	<1	<1	<1	<1
	Chlorodibromomethane	ug/L	3	-	-	-	-	-	-	<3	<3	<3	<3
	Chloroethane	ug/L	10	-	-	-	-	-	-	<10	<10	<10	<10
	Chloroform	ug/L	1	-	-	-	-	-	-	<1	<1	<1	<1
	Chloromethane	ug/L	10	-	-	-	-	-	-	<10	<10	<10	<10
	cis-1,2-dichloroethene	ug/L	1	-	-	-	-	-	-	<1	<1	<1	<1
	cis-1,3-dichloropropene	ug/L	1	-	-	-	-	-	-	<1	<1	<1	<1
	cis-1,4-Dichloro-2-butene	ug/L	10	-	-	-	-	-	-	<10	<10	<10	<10
	Dibromomethane	ug/L	3	-	-	-	-	-	-	<3	<3	<3	<3
	Dichlorodifluoromethane	ug/L	3	-	-	-	-	-	-	<3	<3	<3	<3
Dichloromethane	ug/L	1	-	-	-	-	-	-	<1	<1	<1	<1	
Ethanol	ug/L	300	-	-	-	-	-	-	<300	<300	<300	<300	
Ethyl methacrylate	ug/L	10	-	-	-	-	-	-	<10	<10	<10	<10	
Ethylbenzene	mg/L	0.0005	<0.0005	0.00059	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	
Xylene (m & p)	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	
Xylene (o)	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	
Xylenes Total	ug/L	0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	-	-	-	-	
Iodomethane	ug/L	1	-	-	-	-	-	-	<1	<1	<1	<1	
Styrene	ug/L	1	-	-	-	-	-	-	<1	<1	<1	<1	
Trichloroethene	ug/L	1	-	-	-	-	-	-	<1	<1	<1	<1	
Tetrachloroethene	ug/L	1	-	-	-	-	-	-	<1	<1	<1	<1	
trans-1,2-dichloroethene	ug/L	1	-	-	-	-	-	-	<1	<1	<1	<1	
trans-1,3-dichloropropene	ug/L	1	-	-	-	-	-	-	<1	<1	<1	<1	

Notes  
MDL - Method Detection Limit  
- "Sample not analyzed for this parameter"  
< - "result is less than the MDL. No detectable concentration was measured"  
\* EPA 245.7/245.1

OBED MOUNTAIN MINE  
TABLE 3 PLANTE CREEK DOWNSTREAM (PLC-DS)

				Location	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS
				Date	01-Nov-13	01-Nov-13	02-Nov-13	03-Nov-13	04-Nov-13	05-Nov-13	06-Nov-13	07-Nov-13	08-Nov-13
Method Type	Chemical	Unit	MDL										
	trans-1,4-Dichloro-2-butene	µg/L	10	-	-	-	-	-	-	<10	<10	<10	<10
	Trichlorofluoromethane	µg/L	1	-	-	-	-	-	-	<1	<1	<1	<1
	Vinyl acetate	µg/L	100	-	-	-	-	-	-	<100	<100	<100	<100
	Vinyl chloride	µg/L	2	-	-	-	-	-	-	<2	<2	<2	<2

Notes  
MDL - Method Detection Limit  
- "Sample not analyzed for this parameter"  
< - "result is less than the MDL. No detectable concentration was measured"  
\* EPA 245.7/245.1

OBED MOUNTAIN MINE  
TABLE 3 PLANTE CREEK DOWNSTREAM (PLC-DS)

Method Type	Chemical	Unit	MDL	Location	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	
				Date	09-Nov-13	10-Nov-13	11-Nov-13	12-Nov-13	13-Nov-13	14-Nov-13	15-Nov-13	16-Nov-13	17-Nov-13
Aggregate Organics	Hydrocarbons, Recoverable (I.R.)	mg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
	BOD	mg/L	2	<2	<2 - 13.2	<2	<2 - 2.3	<2	<2 - 2.6	<2 - 3.3	1	<2	
	Oil and Grease	mg/L	1	-	-	-	-	-	-	-	-	-	
	Phenols (4AAP)	µg/L	1	<1	<1	<1	<1 - 2.3	<1 - 1.1	<1	<1	<1 - 1	<1	
Anions and Nutrients	Alkalinity (T) as CaCO3	mg/L	2	246	248 - 249	254 - 258	255 - 257	237 - 243	239 - 266	231 - 238	230 - 233	236 - 237	
	Ammonia	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
	Bicarbonate	mg/L	5	300	303 - 304	309 - 314	312 - 313	290 - 297	292 - 324	282 - 290	281 - 284	288 - 289	
	Carbonate	mg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	Chloride	mg/L	0.5	0.51	<0.5 - 0.51	0.65 - 0.8	<0.5 - 0.51	<0.5 - 0.57	<0.5 - 0.52	<0.5	<0.5 - 0.53	<0.5	
	Electrical Conductivity (lab)	dS/m	0.0002	0.464	0.475 - 0.477	0.495	0.499 - 0.5	0.463 - 0.471	0.466 - 0.471	0.461 - 0.462	0.459 - 0.462	0.465 - 0.469	
	Hydroxide	mg/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	
	Ionic Balance	%		93.8	94.5 - 94.9	92.3 - 95.8	96.6 - 96.9	102 - 105	87.1 - 98.5	88.2 - 95.2	97.4 - 101	97.3 - 101	
	Kjeldahl Nitrogen Total	mg/L	0.05	0.23	<0.2	0.27 - 0.29	<0.2	0.23 - 0.29	<0.2	<0.2 - 0.24	<0.2	<0.2	
	Nitrate (as N)	mg/L	0.05	0.076	0.081 - 0.082	0.076 - 0.095	0.08 - 0.081	0.084 - 0.098	0.08 - 0.088	0.076	0.069 - 0.08	0.063 - 0.064	
	Nitrate + Nitrite-N	mg/L	0.07	0.076	0.081 - 0.082	0.076 - 0.095	0.08 - 0.081	0.084 - 0.098	0.08 - 0.088	0.076	<0.071 - 0.08	<0.071	
	Nitrite (as N)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
	pH (Lab)	pH	0.1	8.15	8.14 - 8.21	8.17 - 8.18	8.22 - 8.24	8.15 - 8.23	8.18 - 8.2	8.16 - 8.17	8.14 - 8.16	8.13	
	Phosphorus	mg/L	0.001	0.031	0.0241 - 0.0255	0.0202 - 0.0232	0.0284 - 0.0372	0.0426 - 0.0433	0.0292 - 0.0427	0.0393 - 0.048	0.0268 - 0.0294	0.0213 - 0.0245	
	Phosphorus (Filtered)	mg/L	0.001	0.0023	0.0013 - 0.0021	0.0011 - 0.0013	0.0013 - 0.0024	0.002 - 0.0028	0.0021 - 0.0025	0.0018 - 0.0023	0.0016 - 0.002	0.0018 - 0.0019	
Sulphate	mg/L	0.5	21.8	21.7 - 22	21.8 - 22.9	22.9 - 23.4	21.4 - 21.7	20.2 - 20.5	20 - 20.4	18.8 - 19.2	18.2 - 18.6		
Sulphide	mg/L	0.002	<0.002	<0.002	<0.002 - 0.002	<0.002	<0.002	<0.002	<0.002 - 0.002	<0.002	<0.002		
Hardness as CaCO3	mg/L		215	222 - 223	223 - 234	233 - 234	237 - 238	215 - 223	191 - 213	210 - 219	214 - 225		
TDS	mg/L		264	267 - 268	271 - 278	279	265 - 269	260 - 273	242 - 255	250 - 254	253 - 255		
Cyanides	Cyanide Total	mg/L	0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
Dissolved Metals	Aluminium (Filtered)	mg/L	0.001	0.0173	0.0033 - 0.005	0.004 - 0.0088	0.0033 - 0.0066	0.0047 - 0.0057	0.0043 - 0.0212	0.0042 - 0.0078	<0.0033	0.0033 - 0.0037	
	Antimony (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
	Arsenic (Filtered)	mg/L	0.0001	0.00032	0.00035 - 0.00036	0.00034 - 0.00037	0.00035 - 0.00036	0.00033 - 0.00037	0.00029 - 0.00034	0.00031 - 0.00035	<0.0003	0.00038 - 0.00044	
	Barium (Filtered)	mg/L	0.00005	0.0869	0.0896 - 0.093	0.0897 - 0.0913	0.0883 - 0.0983	0.0975 - 0.0993	0.0835 - 0.0865	0.0727 - 0.0833	0.0827 - 0.084	0.0801 - 0.0851	
	Beryllium (Filtered)	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
	Bismuth (Filtered)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
	Boron (hot water ext) (Filtered)	mg/L	0.01	<0.01	<0.01	<0.01	<0.01 - 0.011	<0.01 - 0.01	<0.01	<0.01	<0.01	<0.01 - 0.01	
	Cadmium (Filtered)	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
	Calcium (Filtered)	mg/L	0.02	61	64.3	62.4 - 66.5	67 - 67.3	67.6 - 67.7	60.4 - 63.3	55.3 - 61.7	61.5 - 64.3	59 - 63.7	
	Chromium (III+VI) (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
	Cobalt (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
	Copper (Filtered)	mg/L	0.0001	0.00025	0.00019 - 0.00022	0.00021 - 0.00022	0.00023 - 0.00028	0.00023 - 0.00025	0.00023 - 0.00025	0.00023 - 0.00027	0.00021 - 0.00027	0.00019 - 0.00024	
	Iron (Filtered)	mg/L	0.01	0.02	0.012 - 0.013	0.011 - 0.017	0.011 - 0.018	0.01 - 0.012	<0.01 - 0.015	0.011 - 0.012	0.013 - 0.015	0.011 - 0.014	
	Lead (Filtered)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
	Lithium (Filtered)	mg/L	0.003	0.0056	0.0056 - 0.0061	0.0058 - 0.0064	0.0058 - 0.0068	0.0051 - 0.0057	0.0055 - 0.0061	0.0059 - 0.0062	0.0057 - 0.0061	0.0057 - 0.006	
	Magnesium (Filtered)	mg/L	0.005	15.2	14.8 - 15.1	16.2 - 16.6	15.7 - 16.1	16.6 - 16.8	15.5 - 16.1	12.8 - 14.3	13.8 - 14.3	16.1 - 16.2	
	Manganese (Filtered)	mg/L	0.00005	0.0163	0.0145 - 0.0146	0.0136 - 0.0147	0.012 - 0.0159	0.0125 - 0.0126	0.00747 - 0.00825	0.00586 - 0.00688	0.00834 - 0.0094	0.00864 - 0.00944	
	Molybdenum (Filtered)	mg/L	0.00005	0.000893	0.000892 - 0.000904	0.000829 - 0.000885	0.000908 - 0.000957	0.000945 - 0.000948	0.000782 - 0.000823	0.000784 - 0.000863	0.000866 - 0.000878	0.000847 - 0.00086	
	Nickel (Filtered)	mg/L	0.0001	0.0004	0.00035 - 0.00038	0.00042	0.00038 - 0.00042	0.0004 - 0.00041	0.00036 - 0.00041	0.00036 - 0.00039	0.00034 - 0.00036	0.00032 - 0.00037	
	Phosphorus (Filtered)	mg/L	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	
	Potassium (Filtered)	mg/L	0.05	0.91	0.866 - 0.877	0.851 - 0.865	0.89 - 0.926	0.812 - 0.822	0.841 - 0.846	0.69 - 0.8	0.83 - 0.85	0.848 - 0.867	
	Selenium (Filtered)	mg/L	0.0001	0.00014	0.00015	0.00013 - 0.00015	0.00013 - 0.00017	0.00016 - 0.00017	0.00011 - 0.00013	0.00012 - 0.00013	<0.00013	0.00012 - 0.00013	
	Silicon (Filtered)	µg/L	50	4230	4290 - 4340	4430 - 4550	4520 - 4540	4100 - 4770	4530 - 4720	3950 - 4240	4180 - 4250	4150 - 4430	
	Silver (Filtered)	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
	Sodium (Filtered)	mg/L	0.05	17	15.8 - 16	15.4 - 15.8	17.2 - 17.3	15.5 - 15.9	15.9 - 16	14.2 - 15.1	15.4 - 15.8	14.7 - 15.9	
	Strontium (Filtered)	mg/L	0.0001	0.38	0.405 - 0.406	0.37 - 0.391	0.396 - 0.423	0.388 - 0.396	0.344 - 0.365	0.341 - 0.37	0.362 - 0.381	0.343 - 0.345	
	Thallium (Filtered)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	
	Tin (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
	Titanium (Filtered)	mg/L	0.0003	0.00048	<0.0003	<0.0003	<0.0003	<0.0003 - 0.00042	<0.0003 - 0.0003	<0.0003	<0.0003	<0.0003	
	Uranium (Filtered)	µg/L	0.001	1.31	1.25	1.26 - 1.28	1.29 - 1.37	1.11 - 1.17	1.23 - 1.25	1.14 - 1.2	1.21 - 1.23	1.2 - 1.23	
	Vanadium (Filtered)	mg/L	0.0001	0.00023	0.00021 - 0.00023	0.00021	0.00021	0.00023 - 0.00025	0.00024	0.0002 - 0.00023	0.00021 - 0.00022	0.00018 - 0.00022	
	Zinc (Filtered)	mg/L	0.001	<0.001	<0.001 - 0.0011	<0.001 - 0.0014	<0.001	<0.001	<0.001	<0.001	<0.001 - 0.0021	<0.001	
	Field	Turbidity	NTU	-	-	-	-	-	-	-	-	-	
	Organic / Inorganic Carbon	Carbon	mg/L	1	4.9	4.4 - 4.5	4.4 - 4.6	4.8 - 5	4.8 - 5.1	3.8 - 4.2	4.9 - 5.2	4.8 - 5.4	4.3 - 4.4
		Dissolved Organic Carbon (Filtered)	mg/L	1	3.8	3.5 - 3.6	3.7 - 3.8	3.8 - 3.9	3.7 - 3.8	3.8 - 3.8	3.9 - 4.1	3.9 - 4.1	3.9 - 4.1
	Organic Parameters	Naphthenic Acid	mg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
		Dissolved Oxygen (Filtered)	mg/L	0.5	-	-	-	-	-	-	-	-	-
	Physical Tests	TDS (Filtered)	mg/L	10	303	286 - 292	292 - 298	300 - 305	273 - 285	278 - 283	283 - 289	271 - 278	274
		Total Suspended Solids	mg/L	3	62	54 - 59	59 - 52	56 - 77	59 - 108	56 - 77	85 - 101	54 - 59	38 - 40
		Turbidity	NTU	0.1	23.6	17.8 - 19	16.2 - 17.8	17.9 - 22.2	25.5 - 27.1	19.8 - 23	26.8 - 30.5	17 - 19.8	12.6 - 12.7
Polycyclic Aromatic Hydrocarbons		mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
	C4 Benzanthracenes/Chrysenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		

Notes  
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OBED MOUNTAIN MINE  
TABLE 3 PLANTE CREEK DOWNSTREAM (PLC-DS)

	Location	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS		
	Date	09-Nov-13	10-Nov-13	11-Nov-13	12-Nov-13	13-Nov-13	14-Nov-13	15-Nov-13	16-Nov-13	17-Nov-13	PLC-DS		
Method Type	Chemical	Unit	MDL										
Organics	C4 Dibenzothiophenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C4 Fluoranthenes/Pyrenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C4 Naphthalenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C4 Phenanthrenes/Anthracenes	ug/L	0.04	0.156	0.087 - 0.113	0.067 - 0.086	0.228 - 0.394	0.129 - 0.182	0.052 - 0.088	0.071 - 0.094	<0.04	0.062 - 0.073	
	1,1-Biphenyl	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	1-Methylnaphthalene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	2-methylnaphthalene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Acenaphthene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Acenaphthylene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Anthracene	ug/L	0.01	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.04	<0.04	<0.04	
	Benz(a)anthracene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Benzo(a) pyrene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Acridine	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
	Benzo(e)pyrene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Benzo(g,h,i)perylene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Benzo(k)fluoranthene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	C1 Acenaphthenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C1 Benz(a)Anthracenes/Chrysenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C1 Benzofluoranthenes/Benzopyrenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	Chrysene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	C1 Biphenyls	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C1 Dibenzothiophenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C1 Fluoranthenes/Pyrenes	ug/L	0.04	-	-	-	-	-	-	-	-	-	
	C1 Fluorenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C1 Phenanthrenes/Anthracenes	ug/L	0.04	-	-	-	-	-	-	-	-	-	
	Dibenz(a,h)anthracene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Dibenzofluoranthene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Fluoranthene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Fluorene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Indeno(1,2,3-c,d)pyrene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Naphthalene	ug/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
	Perylene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Phenanthrene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Pyrene	ug/L	0.01	<0.04	<0.04	<0.04	<0.04	<0.01	<0.04	<0.04	<0.04	<0.04	
	Quinoline	ug/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
	Retene	ug/L	0.01	0.156	0.087 - 0.113	0.067 - 0.086	0.228 - 0.394	0.129 - 0.182	0.052 - 0.088	0.071 - 0.094	0.024 - 0.036	0.062 - 0.073	
	C2 Benz(a)Anthracenes/Chrysenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C2 Benzofluoranthenes/Benzopyrenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C2 Biphenyls	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C2 Dibenzothiophenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C2 Fluoranthenes/Pyrenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C2 Naphthalenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C2 Phenanthrenes/Anthracenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C2 Fluorenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C2 Benzanthracenes/Chrysenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C3 Dibenzothiophenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C3 Fluoranthenes/Pyrenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
	C3 Fluorenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	
C3 Naphthalenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		
C3 Phenanthrenes/Anthracenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		
Speciated Metals	Chromium (hexavalent)	mg/L	0.001	-	-	-	-	-	-	-	-		
Total Metals	Aluminum	mg/L	0.003	0.793	0.541 - 0.648	0.414 - 0.64	0.697 - 0.974	0.492 - 1.02	0.625 - 0.896	0.659 - 0.683	0.385 - 0.553	0.558 - 0.632	
	Antimony	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	
	Arsenic	mg/L	0.00072	0.00065 - 0.00071	0.00058 - 0.00069	0.00091 - 0.000436	0.00112 - 0.00165	0.00136 - 0.00173	0.00089	0.00065 - 0.00074	0.00067	0.00067	
	Barium	mg/L	0.00005	0.138	0.135 - 0.138	0.126 - 0.131	0.144 - 0.161	0.155 - 0.196	0.154 - 0.189	0.149 - 0.158	0.114 - 0.137	0.118 - 0.127	
	Beryllium	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
	Bismuth	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005 - 0.000058	<0.00005	<0.00005	<0.00005	<0.00005
	Boron (hot water ext)	mg/L	0.01	<0.01	0.011 - 0.012	0.011 - 0.012	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Cadmium	mg/L	0.00001	0.00022	0.00017 - 0.00002	0.00014 - 0.000019	0.00002 - 0.000025	0.00003 - 0.000034	0.000027 - 0.000036	0.00003 - 0.000032	0.000018 - 0.000025	0.000016 - 0.000018	
	Calcium	mg/L	0.02	63.4	65.4 - 66.4	64.8 - 69	68.9 - 70.6	65.1 - 65.8	62.8 - 64.4	63.9 - 64.5	56.4 - 57.6	61.3 - 61.8	
	Chromium (III+VI)	mg/L	0.0001	0.00086	0.00053 - 0.00058	0.0004 - 0.00061	0.00063 - 0.00078	0.00054 - 0.00035	0.00071 - 0.00106	0.00083 - 0.00085	0.00054 - 0.00077	0.00054 - 0.00055	
	Cobalt	mg/L	0.0001	0.00037	0.00028 - 0.00033	0.00024 - 0.0003	0.00033 - 0.00047	0.00039 - 0.00057	0.00036 - 0.00054	0.00046 - 0.0005	0.0003 - 0.00036	0.00027 - 0.00029	
	Copper	mg/L	0.0001	0.0014	0.00106 - 0.00107	0.00078 - 0.00102	0.00112 - 0.00135	0.0013 - 0.00182	0.00125 - 0.00166	0.00139 - 0.00146	0.00182 - 0.00238	0.00096 - 0.00101	
	Iron	mg/L	0.01	0.797	0.625 - 0.685	0.501 - 0.721	0.8 - 0.986	0.741 - 1.28	0.84 - 1.17	1.02 - 1.03	0.618 - 0.811	0.68 - 0.699	
	Lead	mg/L	0.00005	0.00126	0.000847 - 0.000953	0.000626 - 0.000876	0.00107 - 0.00126	0.00127 - 0.00181	0.00114 - 0.00169	0.00162 - 0.00165	0.000938 - 0.00114	0.000775 - 0.000803	
	Lithium	mg/L	0.005	0.0062	0.0057 - 0.0061	0.0061 - 0.0063	0.0064 - 0.0071	0.0064 - 0.0065	<0.005 - 0.0052	0.0063 - 0.0064	0.0056 - 0.0059	0.006	

Notes  
MDL - Method Detection Limit  
- "Sample not analyzed for this parameter"  
< - "result is less than the MDL. No detectable concentration was measured"  
\* EPA 245.7/245.1

OBED MOUNTAIN MINE  
TABLE 3 PLANTE CREEK DOWNSTREAM (PLC-DS)

		Location	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS
		Date	09-Nov-13	10-Nov-13	11-Nov-13	12-Nov-13	13-Nov-13	14-Nov-13	15-Nov-13	16-Nov-13	17-Nov-13	PLC-DS
Method Type	Chemical	Unit	MDL									
	Magnesium	mg/L	0.005	14.8	15.3	15.6 - 16.4	15 - 17.1	15.1 - 15.6	14.2 - 14.7	14.3 - 14.4	14.8 - 15.3	16.8 - 17.2
	Manganese	mg/L	0.0005	0.0335	0.0268 - 0.0276	0.0249 - 0.0267	0.0283 - 0.0361	0.0356 - 0.0404	0.0259 - 0.0364	0.0324 - 0.0368	0.0261 - 0.0277	0.0241 - 0.0251
	Mercury	ug/L	0.0005	0.0037	0.0027 - 0.0032	0.0026 - 0.003	0.0044 - 0.0065	0.00263 - 0.00461	0.0038 - 0.0054	0.0059 - 0.0084	0.0045 - 0.0049	0.003 - 0.004
	Molybdenum	mg/L	0.00005	0.000951	0.000915 - 0.00096	0.000901 - 0.000952	0.000902 - 0.000951	0.000847 - 0.000853	0.000823 - 0.000859	0.000941 - 0.000969	0.000819 - 0.000835	0.000862 - 0.000868
	Nickel	mg/L	0.0001	0.00136	0.00101 - 0.00105	0.00091 - 0.00104	0.00116 - 0.00142	0.00137 - 0.00187	0.00133 - 0.00192	0.00151 - 0.00154	0.00114 - 0.00147	0.0009 - 0.00095
	Phosphorus	mg/L	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
	Potassium	mg/L	0.05	1.01	0.926 - 0.936	0.94 - 0.946	0.822 - 1.06	0.944 - 0.996	0.885 - 0.971	0.937 - 0.947	0.922 - 0.95	0.986 - 0.992
	Selenium	mg/L	0.0001	0.00016	0.00014	0.00013 - 0.00014	0.00016 - 0.00017	0.00015 - 0.00017	0.00013 - 0.00015	0.00014 - 0.00015	0.00013 - 0.00015	0.00013 - 0.00014
	Silicon	ug/L	50	5460	5120 - 5410	4690 - 5010	5770 - 6160	5220 - 6000	5070 - 5660	5210 - 5240	4630 - 4980	5400 - 5530
	Silver	mg/L	0.00001	0.000012	<0.00001	<0.00001	0.00001 - 0.000011	<0.00001 - 0.000013	<0.00001 - 0.000014	0.000011 - 0.000013	<0.00001 - 0.000011	<0.00001
	Sodium	mg/L	0.05	16.7	15.4 - 15.7	16.1 - 17.8	14.7 - 17.9	15.8 - 17.1	15.2 - 15.8	15 - 15.3	15.2 - 15.5	16.3 - 16.7
	Strontium	mg/L	0.0001	0.401	0.416 - 0.421	0.402 - 0.421	0.382 - 0.428	0.378 - 0.385	0.39 - 0.391	0.381 - 0.385	0.349 - 0.36	0.359 - 0.364
	Thallium	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Tin	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001 - 0.00013	<0.0001	<0.0001	<0.0001	<0.0001
	Titanium	mg/L	0.0003	0.0218	0.0154 - 0.0204	0.0125 - 0.0213	0.0243 - 0.0301	0.013 - 0.0264	0.0165 - 0.0225	0.0191 - 0.0213	0.0111 - 0.0183	0.0147 - 0.0163
	Uranium	ug/L	0.01	1.44	1.39	1.25 - 1.28	1.47 - 1.58	1.4 - 1.41	1.2 - 1.28	1.43 - 1.45	1.29	1.35 - 1.41
	Vanadium	mg/L	0.0001	0.00135	0.0011 - 0.00116	0.00084 - 0.00124	0.00147 - 0.00176	0.0012 - 0.00199	0.00129 - 0.00186	0.00157 - 0.00159	0.00097 - 0.00127	0.00114 - 0.0012
	Zinc	mg/L	0.003	0.0216	0.0046 - 0.0063	0.0034 - 0.0058	0.0052 - 0.0091	0.0105 - 0.0138	0.0082 - 0.0159	0.0081 - 0.0109	0.0071 - 0.0108	0.0036 - 0.004
Volatile Organic Compounds	1,1,1-trichloroethane	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	1,1,2,2-tetrachloroethane	ug/L	20	<20	<20	<20	<20	<20	<20	<20	<20	<20
	1,1,2-trichloroethane	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2
	1,1-dichloroethane	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	1,1-dichloroethene	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	1,2,3-trichloropropane	ug/L	5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	1,2-dibromoethane	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	1,2-dichlorobenzene	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	1,2-dichloroethane	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2
	1,2-dichloropropane	ug/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2
	1,3-dichlorobenzene	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	1,4-dichlorobenzene	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Methyl Ethyl Ketone	ug/L	100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	2-hexanone (MBK)	ug/L	10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	4-Methyl-2-pentanone	ug/L	10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Acetone	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	Acrolein	ug/L	100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	Acrylonitrile	ug/L	100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	Benzene	mg/L	0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Toluene	mg/L	0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Bromodichloromethane	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Bromoform	ug/L	3	<3	<3	<3	<3	<3	<3	<3	<3	<3
	Bromomethane	ug/L	10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Carbon disulfide	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Carbon tetrachloride	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Chlorobenzene	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Chlorodibromomethane	ug/L	3	<3	<3	<3	<3	<3	<3	<3	<3	<3
	Chloroethane	ug/L	10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Chloroform	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Chloromethane	ug/L	10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	cis-1,2-dichloroethene	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	cis-1,3-dichloropropene	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	cis-1,4-Dichloro-2-butene	ug/L	10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Dibromomethane	ug/L	3	<3	<3	<3	<3	<3	<3	<3	<3	<3
	Dichlorodifluoromethane	ug/L	3	<3	<3	<3	<3	<3	<3	<3	<3	<3
	Dichloromethane	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Ethanol	ug/L	300	<300	<300	<300	<300	<300	<300	<300	<300	<300
	Ethyl methacrylate	ug/L	10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	mg/L	0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Xylene (m & p)	mg/L	0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Xylene (o)	mg/L	0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Xylenes Total	ug/L	0.71	-	-	-	-	-	-	-	-	-	
Iodomethane	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Styrene	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Trichloroethene	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Tetrachloroethene	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,2-dichloroethene	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,3-dichloropropene	ug/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	

Notes  
MDL - Method Detection Limit  
- "Sample not analyzed for this parameter"  
< - "result is less than the MDL. No detectable concentration was measured"  
\* EPA 245.7/245.1

OBED MOUNTAIN MINE  
TABLE 3 PLANTE CREEK DOWNSTREAM (PLC-DS)

				Location	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS	PLC-DS
				Date	09-Nov-13	10-Nov-13	11-Nov-13	12-Nov-13	13-Nov-13	14-Nov-13	15-Nov-13	16-Nov-13	17-Nov-13
Method Type	Chemical	Unit	MDL										
	trans-1,4-Dichloro-2-butene	µg/L	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	Trichlorofluoromethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
	Vinyl acetate	µg/L	100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
	Vinyl chloride	µg/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2

Notes  
MDL - Method Detection Limit  
- "Sample not analyzed for this parameter"  
< - "result is less than the MDL. No detectable concentration was measured"  
\* EPA 245.7/245.1



OBED MOUNTAIN MINE  
TABLE 3 PLANTE CREEK DOWNSTREAM (PLC-DS)

			Location	PLC-DS	PLC-DS	PLC-DS	
			Date	18-Nov-13	19-Nov-13	20-Nov-13	
Method Type	Chemical	Unit	MDL				
Aggregate Organics	Hydrocarbons, Recoverable (I.R.)	mg/L	1	<1	<1	<1	
	BOD	mg/L	2	<2	<2	<2	
	Oil and Grease	mg/L	1	-	-	-	
	Phenols (4AAP)	µg/L	1	<1	<1 - 1	<1	
	Alkalinity (T) as CaCO3	mg/L	2	235	239 - 240	245	
Anions and Nutrients	Ammonia	mg/L	0.05	<0.05	<0.05	<0.05	
	Bicarbonate	mg/L	5	287	291 - 293	299	
	Carbonate	mg/L	5	<5	<5	<5	
	Chloride	mg/L	0.5	<0.5	<0.5	<0.5	
	Electrical Conductivity (lab)	dS/m	0.0002	0.461	0.476 - 0.477	0.488	
	Hydroxide	mg/L	5	<5	<5	<5	
	Ionic Balance	%		101	96.2	100	
	Kjeldahl Nitrogen Total	mg/L	0.05	<0.2	<0.2	<0.2	
	Nitrate (as N)	mg/L	0.05	0.067	0.072 - 0.075	0.085	
	Nitrate + Nitrite-N	mg/L	0.07	<0.071	0.072 - 0.075	0.085	
	Nitrite (as N)	mg/L	0.05	<0.05	<0.05	<0.05	
	pH (Lab)	pH	0.1	8.03	8.06 - 8.1	8.08	
	Phosphorus	mg/L	0.001	0.0249	0.0213	0.0215	
	Phosphorus (Filtered)	mg/L	0.001	0.002	<0.001	<0.001	
	Sulphate	mg/L	0.5	19.4	19.6 - 19.8	21	
	Sulphide	mg/L	0.002	<0.002	<0.002	<0.002	
	Hardness as CaCO3	mg/L		222	214 - 215	231	
	TDS	mg/L		257	256 - 257	268	
	Cyanides	Cyanide Total	mg/L	0.002	<0.005	<0.005	<0.005
	Dissolved Metals	Aluminium (Filtered)	mg/L	0.001	0.0029	0.0026 - 0.0027	0.0039
Antimony (Filtered)		mg/L	0.0001	<0.0001	<0.0001	<0.0001	
Arsenic (Filtered)		mg/L	0.0001	0.00036	0.00028 - 0.0003	0.0003	
Barium (Filtered)		mg/L	0.00005	0.0835	0.0815 - 0.0821	0.0809	
Beryllium (Filtered)		mg/L	0.0005	<0.0005	<0.0005	<0.0005	
Bismuth (Filtered)		mg/L	0.00005	<0.00005	<0.00005	<0.00005	
Boron (hot water ext) (Filtered)		mg/L	0.01	0.011	<0.01	<0.01	
Cadmium (Filtered)		mg/L	0.00001	<0.00001	<0.00001	<0.00001	
Calcium (Filtered)		mg/L	0.02	62.9	60.4 - 60.9	65	
Chromium (III+VI) (Filtered)		mg/L	0.0001	<0.0001	<0.0001	<0.0001	
Cobalt (Filtered)		mg/L	0.0001	<0.0001	<0.0001	<0.0001	
Copper (Filtered)		mg/L	0.0001	<0.0001	<0.0001	<0.0001	
Iron (Filtered)		mg/L	0.01	0.015	0.011 - 0.015	0.019	
Lead (Filtered)		mg/L	0.00005	<0.00005	<0.00005	<0.00005	
Lithium (Filtered)		mg/L	0.003	0.005	0.0049	0.0062	
Magnesium (Filtered)		mg/L	0.005	15.7	15.3 - 15.4	16.6	
Manganese (Filtered)		mg/L	0.00005	0.00943	0.00883 - 0.00888	0.00928	
Molybdenum (Filtered)		mg/L	0.00005	0.000887	0.000827 - 0.000834	0.000906	
Nickel (Filtered)		mg/L	0.0001	0.00036	0.00033 - 0.00036	0.00036	
Phosphorus (Filtered)		mg/L	0.3	<0.3	<0.3	<0.3	
Potassium (Filtered)		mg/L	0.05	0.86	0.83	0.846	
Selenium (Filtered)		mg/L	0.0001	0.00013	0.00014	0.00014	
Silicon (Filtered)		µg/L	50	4640	4380 - 4440	4580	
Silver (Filtered)		mg/L	0.00001	<0.00001	<0.00001	<0.00001	
Sodium (Filtered)		mg/L	0.05	16.5	15.8 - 16	16.7	
Strontium (Filtered)		mg/L	0.0001	0.346	0.341 - 0.344	0.375	
Thallium (Filtered)		mg/L	0.00005	<0.00005	<0.00005	<0.00005	
Tin (Filtered)		mg/L	0.0001	<0.0001	<0.0001	<0.0001	
Titanium (Filtered)		mg/L	0.0003	<0.0003	<0.0003	<0.0003	
Uranium (Filtered)		µg/L	0.01	1.29	1.23 - 1.26	1.22	
Vanadium (Filtered)		mg/L	0.0001	0.00016	0.00018	0.00017	
Zinc (Filtered)		mg/L	0.001	<0.001	<0.001	0.0023	
Field		Turbidity	NTU		-	-	-
Organic / Inorganic Carbon	Carbon	mg/L	1	4	4.4 - 4.8	4.2	
	Dissolved Organic Carbon (Filtered)	mg/L	1	4.9	4 - 4.1	3.7	
Organic Parameters	Naphthenic Acid	mg/L	1	<1	<1	<1	
Physical Tests	Dissolved Oxygen (Filtered)	mg/L	0.5	-	-	-	
	TDS (Filtered)	mg/L	10	289	272 - 275	280	
	Total Suspended Solids	mg/L	3	44	40 - 42	45	
	Turbidity	NTU	0.1	13.1	8.96 - 11.8	11.6	
Polycyclic Aromatic Hydrocarbons	Benzo[b+h]fluoranthene	mg/L	0.00001	<0.00001	<0.00001	<0.00001	
	C4 Benzantracenes/Chrysenes	ug/L	0.04	<0.04	<0.04	<0.04	

Notes

MDL - Method Detection Limit

- "Sample not analyzed for this parameter"

< - "result is less than the MDL. No detectable concentration was measured"

\* EPA 245.7/245.1

OBED MOUNTAIN MINE  
TABLE 3 PLANTE CREEK DOWNSTREAM (PLC-DS)

				Location	PLC-DS	PLC-DS	PLC-DS
				Date	18-Nov-13	19-Nov-13	20-Nov-13
Method Type	Chemical	Unit	MDL				
	C4 Dibenzothiophenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C4 Fluoranthenes/Pyrenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C4 Naphthalenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C4 Phenanthrenes/Anthracenes	ug/L	0.04	0.05	0.065 - 0.118	0.055	
	1,1-Biphenyl	ug/L	0.01	<0.01	<0.01	<0.01	
	1-Methylnaphthalene	ug/L	0.01	<0.01	<0.01	<0.01	
	2-methylnaphthalene	ug/L	0.01	<0.01	<0.01	<0.01	
	Acenaphthene	ug/L	0.01	<0.01	<0.01	<0.01	
	Acenaphthylene	ug/L	0.01	<0.01	<0.01	<0.01	
	Anthracene	ug/L	0.01	<0.04	<0.04	<0.04	
	Benz(a)anthracene	ug/L	0.01	<0.01	<0.01	<0.01	
	Benzo(a) pyrene	ug/L	0.01	<0.01	<0.01	<0.01	
	Acridine	mg/L	0.00001	<0.00001	<0.00001	<0.00001	
	Benzo(e)pyrene	ug/L	0.01	<0.01	<0.01	<0.01	
	Benzo(g,h,i)perylene	ug/L	0.01	<0.01	<0.01	<0.01	
	Benzo(k)fluoranthene	ug/L	0.01	<0.01	<0.01	<0.01	
	C1 Acenaphthenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C1 Benz(a)Anthracenes/Chrysenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C1 Benzofluoranthenes/Benzopyrenes	ug/L	0.04	<0.04	<0.04	<0.04	
	Chrysene	ug/L	0.01	<0.01	<0.01	<0.01	
	C1 Biphenyls	ug/L	0.04	<0.04	<0.04	<0.04	
	C1 Dibenzothiophenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C1 Fluoranthenes/Pyrenes	ug/L	0.04	-	-	-	
	C1 Fluorenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C1 Phenanthrenes/Anthracenes	ug/L	0.04	-	-	-	
	Dibenz(a,h)anthracene	ug/L	0.01	<0.01	<0.01	<0.01	
	Dibenzothiophene	ug/L	0.01	<0.01	<0.01	<0.01	
	Fluoranthene	ug/L	0.01	<0.01	<0.01	<0.01	
	Fluorene	ug/L	0.01	<0.01	<0.01	<0.01	
	Indeno(1,2,3-c,d)pyrene	ug/L	0.01	<0.01	<0.01	<0.01	
	Naphthalene	ug/L	0.05	<0.05	<0.05	<0.05	
	Perylene	ug/L	0.01	<0.01	<0.01	<0.01	
	Phenanthrene	ug/L	0.01	<0.01	<0.01	<0.01	
	Pyrene	ug/L	0.01	<0.04	<0.04	<0.04	
	Quinoline	ug/L	0.01	<0.01	<0.01	<0.01	
	Retene	ug/L	0.01	0.05	0.065 - 0.118	0.055	
	C2 Benz(a)Anthracenes/Chrysenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C2 Benzofluoranthenes/Benzopyrenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C2 Biphenyls	ug/L	0.04	<0.04	<0.04	<0.04	
	C2 Dibenzothiophenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C2 Fluoranthenes/Pyrenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C2 Naphthalenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C2 Phenanthrenes/Anthracenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C2 Fluorenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C3 Benzantracenes/Chrysenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C3 Dibenzothiophenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C3 Fluoranthenes/Pyrenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C3 Fluorenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C3 Naphthalenes	ug/L	0.04	<0.04	<0.04	<0.04	
	C3 Phenanthrenes/Anthracenes	ug/L	0.04	<0.04	<0.04	<0.04	
Speciated Metals	Chromium (hexavalent)	mg/L	0.001	-	-	-	
Total Metals	Aluminium	mg/L	0.003	0.444	0.413 - 0.953	0.506	
	Antimony	mg/L	0.0001	<0.0001	<0.0001	<0.0001	
	Arsenic	mg/L	0.0001	0.00067	0.00061 - 0.0011	0.00057	
	Barium	mg/L	0.00005	0.122	0.127 - 0.207	0.126	
	Beryllium	mg/L	0.0005	<0.0005	<0.0005	<0.0005	
	Bismuth	mg/L	0.00005	<0.00005	<0.00005	<0.00005	
	Boron (hot water ext)	mg/L	0.01	<0.01	<0.01	<0.01	
	Cadmium	mg/L	0.00001	0.000019	0.000012 - 0.00004	0.000012	
	Calcium	mg/L	0.02	61	62.3 - 63.8	70	
	Chromium (III+VI)	mg/L	0.0001	0.00054	0.00058 - 0.00109	0.00042	
	Cobalt	mg/L	0.0001	0.0003	0.00026 - 0.00069	0.00026	
	Copper	mg/L	0.0001	0.0011	0.00043 - 0.00149	0.00075	
	Iron	mg/L	0.01	0.681	0.649 - 1.38	0.562	
	Lead	mg/L	0.00005	0.00101	0.000819 - 0.00192	0.000708	
	Lithium	mg/L	0.005	0.0061	<0.005 - 0.0057	0.0074	

Notes  
MDL - Method Detection Limit  
- "Sample not analyzed for this parameter"  
< - "result is less than the MDL. No detectable concentration was measured"  
\* EPA 245.7/245.1

OBED MOUNTAIN MINE  
TABLE 3 PLANTE CREEK DOWNSTREAM (PLC-DS)

				Location	PLC-DS	PLC-DS	PLC-DS
				Date	18-Nov-13	19-Nov-13	20-Nov-13
Method Type	Chemical	Unit	MDL				
	Magnesium	mg/L	0.005	16.6	15.5 - 15.7	16.6	
	Manganese	mg/L	0.0005	0.0252	0.0233 - 0.0592	0.0239	
	Mercury	ug/L	0.0005	0.00272	0.00261 - 0.0037	0.00282	
	Molybdenum	mg/L	0.00005	0.000894	0.000894 - 0.000916	0.000941	
	Nickel	mg/L	0.0001	0.00112	0.00097 - 0.00206	0.00088	
	Phosphorus	mg/L	0.3	<0.3	<0.3	<0.3	
	Potassium	mg/L	0.05	0.962	0.884 - 1.02	1.01	
	Selenium	mg/L	0.0001	0.00013	0.00014 - 0.00017	0.00013	
	Silicon	ug/L	50	5040	4840 - 5830	5770	
	Silver	mg/L	0.00001	<0.00001	<0.00001 - 0.000016	<0.00001	
	Sodium	mg/L	0.05	16.8	15.5 - 15.7	17	
	Strontium	mg/L	0.0001	0.36	0.368 - 0.381	0.396	
	Thallium	mg/L	0.00005	<0.00005	<0.00005	<0.00005	
	Tin	mg/L	0.0001	<0.0001	<0.0001	<0.0001	
	Titanium	mg/L	0.0003	0.0155	0.0125 - 0.0257	0.0118	
	Uranium	ug/L	0.01	1.36	1.29 - 1.4	1.4	
	Vanadium	mg/L	0.0001	0.00109	0.00102 - 0.00215	0.00091	
	Zinc	mg/L	0.003	0.007	0.0072 - 0.0118	0.0032	
Volatle Organic Compounds	1,1,1-trichloroethane	ug/L	1	<1	<1	<1	
	1,1,2-tetrachloroethane	ug/L	20	<20	<20	<20	
	1,1,2-trichloroethane	ug/L	2	<2	<2	<2	
	1,1-dichloroethane	ug/L	1	<1	<1	<1	
	1,1-dichloroethene	ug/L	1	<1	<1	<1	
	1,2,3-trichloropropane	ug/L	5	<5	<5	<5	
	1,2-dibromoethane	ug/L	1	<1	<1	<1	
	1,2-dichlorobenzene	ug/L	1	<1	<1	<1	
	1,2-dichloroethane	ug/L	2	<2	<2	<2	
	1,2-dichloropropane	ug/L	2	<2	<2	<2	
	1,3-dichlorobenzene	ug/L	1	<1	<1	<1	
	1,4-dichlorobenzene	ug/L	1	<1	<1	<1	
	Methyl Ethyl Ketone	ug/L	100	<100	<100	<100	
	2-hexanone (MBK)	ug/L	10	<10	<10	<10	
	4-Methyl-2-pentanone	ug/L	10	<10	<10	<10	
	Acetone	mg/L	0.1	<0.1	<0.1	<0.1	
	Acrolein	ug/L	100	<100	<100	<100	
	Acrylonitrile	ug/L	100	<100	<100	<100	
	Benzene	mg/L	0.0005	<0.001	<0.001	<0.001	
	Toluene	mg/L	0.0005	<0.001	<0.001	<0.001	
	Bromodichloromethane	ug/L	1	<1	<1	<1	
	Bromoform	ug/L	3	<3	<3	<3	
	Bromomethane	ug/L	10	<10	<10	<10	
	Carbon disulfide	ug/L	1	<1	<1	<1	
	Carbon tetrachloride	ug/L	1	<1	<1	<1	
	Chlorobenzene	ug/L	1	<1	<1	<1	
	Chlorodibromomethane	ug/L	3	<3	<3	<3	
	Chloroethane	ug/L	10	<10	<10	<10	
	Chloroform	ug/L	1	<1	<1	<1	
	Chloromethane	ug/L	10	<10	<10	<10	
	cis-1,2-dichloroethene	ug/L	1	<1	<1	<1	
	cis-1,3-dichloropropene	ug/L	1	<1	<1	<1	
	cis-1,4-Dichloro-2-butene	ug/L	10	<10	<10	<10	
	Dibromomethane	ug/L	3	<3	<3	<3	
	Dichlorodifluoromethane	ug/L	3	<3	<3	<3	
	Dichloromethane	ug/L	1	<1	<1	<1	
	Ethanol	ug/L	300	<300	<300	<300	
	Ethyl methacrylate	ug/L	10	<10	<10	<10	
	Ethylbenzene	mg/L	0.0005	<0.001	<0.001	<0.001	
	Xylene (m & p)	mg/L	0.0005	<0.001	<0.001	<0.001	
	Xylene (o)	mg/L	0.0005	<0.001	<0.001	<0.001	
	Xylenes Total	ug/L	0.71	-	-	-	
	Iodomethane	ug/L	1	<1	<1	<1	
	Styrene	ug/L	1	<1	<1	<1	
	Trichloroethene	ug/L	1	<1	<1	<1	
	Tetrachloroethene	ug/L	1	<1	<1	<1	
	trans-1,2-dichloroethene	ug/L	1	<1	<1	<1	
	trans-1,3-dichloropropene	ug/L	1	<1	<1	<1	

Notes  
MDL - Method Detection Limit  
- "Sample not analyzed for this parameter"  
< - "result is less than the MDL. No detectable concentration was measured"  
\* EPA 245.7/245.1

OBED MOUNTAIN MINE  
TABLE 3 PLANTE CREEK DOWNSTREAM (PLC-DS)

				Location	PLC-DS	PLC-DS	PLC-DS
				Date	18-Nov-13	19-Nov-13	20-Nov-13
Method Type	Chemical	Unit	MDL				
	trans-1,4-Dichloro-2-butene	µg/L	10	<10	<10	<10	<10
	Trichlorofluoromethane	µg/L	1	<1	<1	<1	<1
	Vinyl acetate	µg/L	100	<100	<100	<100	<100
	Vinyl chloride	µg/L	2	<2	<2	<2	<2

Notes  
MDL - Method Detection Limit  
- "Sample not analyzed for this parameter"  
< - "result is less than the MDL. No detectable concentration was measured"  
\* EPA 245.7/245.1