

OBED MOUNTAIN MINE
TABLE 4 PLANTE CREEK DOWNSTREAM (PLC-DS1 and PLC-D2)

		Location	PLC-DS1	PLC-DS1	PLC-DS1	PLC-DS1	PLC-DS1	PLC-DS1	PLC-DS1	PLC-D2	PLC-D2
		Date	20-Nov-13	21-Nov-13	22-Nov-13	24-Nov-13	25-Nov-13	26-Nov-13	26-Nov-13	13-Nov-13	14-Nov-13
Method Type	Chemical	Unit	MDL								
Aggregate Organics	Hydrocarbons, Recoverable (I.R.)	mg/L	1	<1	<1	<1	<1	<1	<1	<1	<1
	BOD	mg/L	2	<2	9	<2	<2	<2	<2	<2	<2
	Phenols (4AAP)	µg/L	1	<1	<1	1.1	<1	<1	<1	<1	1.5
Anions and Nutrients	Alkalinity (T) as CaCO3	mg/L	2	244	252	250	245	243	243	252	237
	Ammonia	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Bicarbonate	mg/L	5	298	307	305	298	296	297	307	289
	Carbonate	mg/L	5	<5	<5	<5	<5	<5	<5	<5	<5
	Chloride	mg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.51
	Electrical Conductivity (lab)	dS/m	0.0002	0.487	0.478	0.477	0.473	0.472	0.471	0.484	0.47
	Hydroxide	mg/L	5	<5	<5	<5	<5	<5	<5	<5	<5
	Ionic Balance	%		98.6	98.1	96.6	97.6	103	98	100	98.5
	Kjeldahl Nitrogen Total	mg/L	0.2	<0.2	0.31	0.23	<0.2	<0.2	<0.2	<0.2	<0.2
	Nitrate (as N)	mg/L	0.05	0.084	0.088	0.074	0.087	0.06	0.081	0.089	0.08
	Nitrate + Nitrite-N	mg/L	0.07	0.084	0.088	0.074	0.087	<0.071	0.081	0.089	0.08
	Nitrite (as N)	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	pH (Lab)	pH	0.1	8.08	8.14	8.14	8.21	8.21	8.18	8.24	8.2
	Phosphorus	mg/L	0.001	0.0216	0.035	0.0359	0.0299	0.0244	0.0217	0.0308	0.0287
	Phosphorus (Filtered)	mg/L	0.001	<0.001	0.0014	0.0025	0.0014	0.0019	0.0021	0.0046	0.003
	Sulphate	mg/L	0.5	20.7	20.3	19.2	20.5	16.7	19.4	22.2	20.1
	Sulphide	mg/L	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0022	<0.002
	Hardness as CaCO3	mg/L		226	232	225	222	222	222	242	220
	TDS	mg/L		265	271	266	264	262	261	277	258
Cyanides	Cyanide Total	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Metals	Aluminium (Filtered)	mg/L	0.001	0.0041	0.0031	0.0033	0.0028	0.0033	0.0027	0.004	0.0036
	Antimony (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Arsenic (Filtered)	mg/L	0.0001	0.00031	0.0003	0.00025	0.00029	0.00026	0.00027	0.0004	0.00041
	Barium (Filtered)	mg/L	0.00005	0.0827	0.0866	0.0837	0.0846	0.0782	0.0722	0.112	0.0854
	Beryllium (Filtered)	mg/L	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
	Boron (hot water ext) (Filtered)	mg/L	0.01	<0.01	<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
	Calcium (Filtered)	mg/L	0.02	63.8	66	64.4	62.5	67.2	62.5	68.9	62.9
	Chromium (III+VI) (Filtered)	mg/L	0.0001	<0.0001	0.00044	<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
	Copper (Filtered)	mg/L	0.0001	0.00017	0.00025	0.00019	0.00022	0.00017	0.00016	0.00025	0.00025
	Iron (Filtered)	mg/L	0.01	0.023	0.014	0.014	0.012	0.022	0.021	<0.01	<0.01
	Lead (Filtered)	mg/L	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	0.0068	0.0066	0.006	0.0068	0.0065	0.0055	0.0058
	Magnesium (Filtered)	mg/L	0.005	16.1	16.2	15.7	15.9	15.5	16	17	15.3
	Manganese (Filtered)	mg/L	0.00005	0.00943	0.00647	0.00784	0.00853	0.00893	0.00942	0.0101	0.00669
	Molybdenum (Filtered)	mg/L	0.00005	0.000854	0.000853	0.000868	0.000751	0.000822	0.000786	0.000967	0.000752
	Nickel (Filtered)	mg/L	0.0001	0.00058	0.00034	0.0003	0.0003	0.00027	0.00031	0.00038	0.0004
	Phosphorus (Filtered)	mg/L	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
	Potassium (Filtered)	mg/L	0.05	0.846	0.842	0.83	0.85	0.83	0.78	0.88	0.837
	Selenium (Filtered)	mg/L	0.0001	0.00016	0.00014	0.00014	0.00013	0.00013	0.00013	0.00016	0.00013
	Silicon (Filtered)	µg/L	50	4550	4580	4310	4440	4340	4550	4870	4450
	Silver (Filtered)	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	Sodium (Filtered)	mg/L	0.05	16.5	16.3	15.9	17	15.8	16.4	15.7	15.6
	Strontium (Filtered)	mg/L	0.0001	0.363	0.382	0.374	0.362	0.396	0.349	0.41	0.368
	Thallium (Filtered)	mg/L	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
	Titanium (Filtered)	mg/L	0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
	Uranium (Filtered)	µg/L	0.01	1.23	1.26	1.21	1.09	1.15	1.15	1.19	1.26
	Vanadium (Filtered)	mg/L	0.0001	0.00017	0.00034	0.00016	0.00017	0.00016	0.00011	0.00025	0.00029
	Zinc (Filtered)	mg/L	0.001	0.0025	0.0021	<0.001	<0.001	<0.001	0.0011	0.0011	<0.001
	Historical	BOD	mg/L	-	-	-	-	-	-	-	-
Carbon		mg/L	1	4.1	4.3	3.8	3.6	3.7	4.2	4.4	
Organic / Inorganic Carbon	Dissolved Organic Carbon (Filtered)	mg/L	1	3.7	3.7	3.9	3.8	3.4	3.5	3.8	3.8
	Naphthenic Acid	mg/L	1	<1	<1	<1	<1	<1	<1	<1	<1
Organic Parameters	TDS (Filtered)	mg/L	10	282	286	289	277	281	267	284	279
	Total Suspended Solids	mg/L	3	43	63	67	55	38	31	66	59
	Turbidity	NTU	0.1	11.6	16.7	18.6	14.4	10.1	9.28	23.1	21.9
Polycyclic Aromatic Hydrocarbons	Benzo[<i>b</i> + <i>j</i>]fluoranthene	mg/L	0.00001	<0.00001	<0.00001	<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	<0.04	<0.04	<0.04
	C4 Dibenzothiophenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C4 Fluoranthenes/Pyrenes	µg/L	0.04	<0.04	<0.04	<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"

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				Location	PLC-DS1	PLC-DS1	PLC-DS1	PLC-DS1	PLC-DS1	PLC-DS1	PLC-DS1	PLC-D2	PLC-D2
				Date	20-Nov-13	21-Nov-13	22-Nov-13	24-Nov-13	25-Nov-13	26-Nov-13	13-Nov-13	14-Nov-13	
Method Type	Chemical	Unit	MDL										
	C4 Naphthalenes	ug/L	0.04	<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	<0.04	0.117	0.161	0.087	0.088	0.084	0.074	0.165		
	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	<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	<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	<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	<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	<0.01
	Anthracene	ug/L	0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<0.01
	Dibenzothiophene	ug/L	0.01	<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	<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	<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	<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	<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	<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	<0.01
	Pyrene	ug/L	0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01
	Quinoline	ug/L	0.01	<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	0.029	0.117	0.161	0.087	0.088	0.084	0.074	0.165		
	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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<0.04
Total Metals	Aluminium	mg/L	0.003	0.477	0.565	0.455	0.553	0.409	0.307	0.654	0.492		
	Antimony	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
	Arsenic	mg/L	0.0001	0.00053	0.00075	0.00061	0.00072	0.00057	0.00049	0.00119	0.00133		
	Barium	mg/L	0.00005	0.115	0.139	0.144	0.123	0.0989	0.163	0.151			
	Beryllium	mg/L	0.0005	<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	0.000063	<0.00005		
	Boron (hot water ext)	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Cadmium	mg/L	0.00001	0.000015	0.000024	0.000025	0.000019	0.000015	0.000016	0.000023	0.000022		
	Calcium	mg/L	0.02	68.3	62.8	64.7	69.1	69.1	60.6	63.6	63.4		
	Chromium (III+VI)	mg/L	0.0001	0.00036	0.00064	0.00055	0.00058	0.00049	0.0004	0.00072	0.00066		
	Cobalt	mg/L	0.0001	0.00022	0.00036	0.00033	0.00036	0.00025	0.00019	0.00036	0.00035		
	Copper	mg/L	0.0001	0.00074	0.00147	0.00112	0.00111	0.00111	0.00083	0.00127	0.0011		
	Iron	mg/L	0.01	0.532	0.864	0.7	0.82	0.659	0.516	0.802	0.704		
	Lead	mg/L	0.00005	0.000743	0.00135	0.00103	0.00107	0.000764	0.00059	0.00115	0.00109		
	Lithium	mg/L	0.005	0.0069	0.0064	0.0065	0.0072	0.0061	0.0062	<0.005	<0.005		
	Magnesium	mg/L	0.005	17	15.5	15.4	15.9	15.9	14.8	15	14.2		
	Manganese	mg/L	0.00005	0.0227	0.0304	0.0298	0.0261	0.0224	0.0224	0.0275	0.0251		
	Mercury	ug/L	0.0005	0.00438	0.0059	0.00689	0.00336	0.00411	0.00255	0.00224	0.0039		
	Molybdenum	mg/L	0.00005	0.000908	0.000838	0.000846	0.000869	0.000881	0.00077	0.000811	0.000823		
	Nickel	mg/L	0.0001	0.00084	0.00127	0.00102	0.00107	0.00088	0.00091	0.00129	0.00132		

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

OBED MOUNTAIN MINE
TABLE 4 PLANTE CREEK DOWNSTREAM (PLC-DS1 and PLC-D2)

		Location Date	PLC-DS1 20-Nov-13	PLC-DS1 21-Nov-13	PLC-DS1 22-Nov-13	PLC-DS1 24-Nov-13	PLC-DS1 25-Nov-13	PLC-DS1 26-Nov-13	PLC-D2 13-Nov-13	PLC-D2 14-Nov-13	
Method Type	Chemical	Unit	MDL								
	Phosphorus	mg/L	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	
	Potassium	mg/L	0.05	0.997	0.922	0.918	0.93	0.86	0.896	0.981	
	Selenium	mg/L	0.00014	<0.0001	0.00015	0.00014	0.00014	0.00015	0.00015	0.00015	
	Silicon	µg/L	50	5790	5430	5140	5040	4940	5740	5460	
	Silver	mg/L	0.00001	<0.00001	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000012	
	Sodium	mg/L	0.05	17	16.6	15.7	15.8	15.9	15.3	16.1	
	Strontium	mg/L	0.0001	0.37	0.358	0.365	0.404	0.396	0.35	0.38	
	Thallium	mg/L	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	<0.0001	<0.0001	
	Titanium	mg/L	0.0003	0.0111	0.0183	0.014	0.0169	0.014	0.00929	0.0167	
	Uranium	µg/L	0.01	1.34	1.21	1.34	1.3	1.27	1.3	1.35	
	Vanadium	mg/L	0.0001	0.00087	0.00123	0.0011	0.0012	0.00102	0.00082	0.00129	
	Zinc	mg/L	0.003	0.0039	0.0086	0.0074	0.006	0.0077	0.0048	0.0067	
Volatile Organic Compounds	1,1,1-trichloroethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	
	1,1,2,2-tetrachloroethane	µg/L	20	<20	<20	<20	<20	<20	<20	<20	
	1,1,2-trichloroethane	µg/L	2	<2	<2	<2	<2	<2	<2	<2	
	1,1-dichloroethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	
	1,1-dichloroethene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	
	1,2,3-trichloropropane	µg/L	5	<5	<5	<5	<5	<5	<5	<5	
	1,2-dibromoethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	
	1,2-dichlorobenzene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	
	1,2-dichloroethane	µg/L	2	<2	<2	<2	<2	<2	<2	<2	
	1,2-dichloropropane	µg/L	2	<2	<2	<2	<2	<2	<2	<2	
	1,3-dichlorobenzene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	
	1,4-dichlorobenzene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	
	Methyl Ethyl Ketone	µg/L	100	<100	<100	<100	<100	<100	<100	<100	<100
	2-hexanone (MBK)	µg/L	10	<10	<10	<10	<10	<10	<10	<10	<10
	4-Methyl-2-pentanone	µg/L	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
	Acrolein	µg/L	100	<100	<100	<100	<100	<100	<100	<100	<100
	Acrylonitrile	µg/L	100	<100	<100	<100	<100	<100	<100	<100	<100
	Benzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Toluene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Bromodichloromethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1
	Bromoform	µg/L	3	<3	<3	<3	<3	<3	<3	<3	<3
	Bromomethane	µg/L	10	<10	<10	<10	<10	<10	<10	<10	<10
	Carbon disulfide	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1
	Carbon tetrachloride	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1
	Chlorobenzene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1
	Chlorodibromomethane	µg/L	3	<3	<3	<3	<3	<3	<3	<3	<3
	Chloroethane	µg/L	10	<10	<10	<10	<10	<10	<10	<10	<10
	Chloroform	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1
	Chloromethane	µg/L	10	<10	<10	<10	<10	<10	<10	<10	<10
	cis-1,2-dichloroethene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1
	cis-1,3-dichloropropene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1
	cis-1,4-Dichloro-2-butene	µg/L	10	<10	<10	<10	<10	<10	<10	<10	<10
	Dibromomethane	µg/L	3	<3	<3	<3	<3	<3	<3	<3	<3
	Dichlorodifluoromethane	µg/L	3	<3	<3	<3	<3	<3	<3	<3	<3
	Dichloromethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1
Ethanol	µg/L	300	<300	<300	<300	<300	<300	<300	<300	<300	
Ethyl methacrylate	µg/L	10	<10	<10	<10	<10	<10	<10	<10	<10	
Ethylbenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Xylene (m & p)	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Xylene (o)	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Iodomethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	
Styrene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	
Trichloroethene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	
Tetrachloroethene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,2-dichloroethene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,3-dichloropropene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	
trans-1,4-Dichloro-2-butene	µg/L	10	<10	<10	<10	<10	<10	<10	<10	<10	
Trichlorofluoromethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	
Vinyl acetate	µg/L	100	<100	<100	<100	<100	<100	<100	<100	<100	
Vinyl chloride	µg/L	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"

OBED MOUNTAIN MINE
TABLE 4 PLANTE CREEK DOWNSTREAM (PLC-DS1 and PLC-D2)

		Location	PLC-D2	PLC-D2	PLC-D2	PLC-D2	PLC-D2	PLC-D2	PLC-D2	PLC-D2	PLC-D2
		Date	15-Nov-13	16-Nov-13	17-Nov-13	18-Nov-13	19-Nov-13	20-Nov-13	21-Nov-13	22-Nov-13	PLC-D2
Method Type	Chemical	Unit	MDL								
Aggregate Organics	Hydrocarbons, Recoverable (I.R.)	mg/L	1	<1	<1	<1	<1	<1	<1	<1	<1
	BOD	mg/L	2	<2	-	<2	<2	<2	<2	<2	<2
	Phenols (4AAP)	µg/L	1	<1	<1	<1	<1	<1	1.4	<1	<1
Anions and Nutrients	Alkalinity (T) as CaCO3	mg/L	2	230	231	264	240	240	255	251	245
	Ammonia	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
	Bicarbonate	mg/L	5	281	281	322	293	292	311	306	299
	Carbonate	mg/L	5	<5	<5	<5	<5	<5	<5	<5	<5
	Chloride	mg/L	0.5	<0.5	0.55	<0.5	<0.5	<0.5	0.56	<0.5	<0.5
	Electrical Conductivity (lab)	dS/m	0.0002	0.457	0.46	0.468	0.478	0.478	0.483	0.487	0.475
	Hydroxide	mg/L	5	<5	<5	<5	<5	<5	<5	<5	<5
	Ionic Balance	%		93.5	101	91.1	105	95.3	90	100	104
	Kjeldahl Nitrogen Total	mg/L	0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.23	<0.2
	Nitrate (as N)	mg/L	0.05	0.071	0.075	0.063	<0.05	0.067	0.082	0.086	0.071
	Nitrate + Nitrite-N	mg/L	0.07	<0.071	0.075	<0.071	<0.071	<0.071	0.082	0.086	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
	pH (Lab)	pH	0.1	8.19	8.16	8.15	8.12	8.08	8.06	8.09	8.08
	Phosphorus	mg/L	0.001	0.048	0.0228	0.0177	0.0172	0.0154	0.0139	0.0204	0.0272
	Phosphorus (Filtered)	mg/L	0.001	0.0018	0.0016	0.0019	0.0024	<0.001	0.001	0.001	0.0015
	Sulphate	mg/L	0.5	19.8	19	18.2	8.41	19.4	21.1	20.7	19.3
	Sulphide	mg/L	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Hardness as CaCO3	mg/L		203	217	222	212	213	237	240	240	
TDS	mg/L		245	252	272	250	255	267	273	269	
Cyanides	Cyanide Total	mg/L	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dissolved Metals	Aluminium (Filtered)	mg/L	0.001	0.0036	<0.0039	0.0038	0.0077	0.0025	0.0037	0.0026	0.0032
	Antimony (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001
	Arsenic (Filtered)	mg/L	0.0001	0.0004	<0.00037	0.00492	0.00036	0.00033	0.00034	0.00031	0.00031
	Barium (Filtered)	mg/L	0.00005	0.0809	0.0806	0.0813	0.0839	0.0846	0.0832	0.0868	0.085
	Beryllium (Filtered)	mg/L	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
	Boron (hot water ext) (Filtered)	mg/L	0.01	<0.01	<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	0.000016	<0.00001	<0.00001
	Calcium (Filtered)	mg/L	0.02	58.4	60.3	61.7	59.3	64.7	59.4	67.3	70.2
	Chromium (III+VI) (Filtered)	mg/L	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
	Copper (Filtered)	mg/L	0.0001	0.00028	<0.00026	0.00023	0.00034	<0.0001	<0.0001	0.00021	0.00022
	Iron (Filtered)	mg/L	0.01	0.013	0.013	0.011	0.015	<0.01	0.018	<0.01	0.018
	Lead (Filtered)	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Lithium (Filtered)	mg/L	0.003	0.0058	0.0059	0.0058	0.0064	0.0048	0.0052	0.0071	0.0072
	Magnesium (Filtered)	mg/L	0.005	13.8	16.2	16.5	15.8	15.5	15.8	16.7	15.8
	Manganese (Filtered)	mg/L	0.00005	0.00521	0.00782	0.00737	0.00687	0.00735	0.00714	0.00415	0.00516
	Molybdenum (Filtered)	mg/L	0.00005	0.000707	0.000824	0.000842	0.000926	0.000807	0.000793	0.000871	0.000878
	Nickel (Filtered)	mg/L	0.0001	0.00039	0.00037	0.00039	0.0004	0.00037	0.00038	0.00037	0.00037
	Phosphorus (Filtered)	mg/L	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
	Potassium (Filtered)	mg/L	0.05	0.74	0.87	0.881	1.09	0.84	0.856	0.863	0.83
	Selenium (Filtered)	mg/L	0.0001	0.00013	<0.00012	0.00012	0.00012	0.00013	0.00014	0.00012	0.00013
	Silicon (Filtered)	µg/L	50	4230	4160	4120	4710	4470	4490	4480	4360
	Silver (Filtered)	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
	Sodium (Filtered)	mg/L	0.05	14.4	15.7	16	15.7	15.9	16.4	16.4	15.5
	Strontium (Filtered)	mg/L	0.0001	0.349	0.347	0.353	0.352	0.343	0.343	0.389	0.386
	Thallium (Filtered)	mg/L	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
	Titanium (Filtered)	mg/L	0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
	Uranium (Filtered)	µg/L	0.01	1.11	1.21	1.22	1.26	1.24	1.23	1.27	1.22
	Vanadium (Filtered)	mg/L	0.0001	0.00023	0.00023	0.00022	0.0002	0.00016	0.00017	0.00019	0.00018
	Zinc (Filtered)	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0025	<0.001	<0.001
	Historical	BOD	mg/L	-	-	-	-	-	-	-	-
Carbon		mg/L	1	5.3	5.2	4.3	2.9	5	3.7	4	4
Organic / Inorganic Carbon	Dissolved Organic Carbon (Filtered)	mg/L	1	4	4.3	4.1	<1	4.1	4.2	4	3.9
	Naphthenic Acid	mg/L	1	<1	<1	<1	<1	<1	<1	<1	<1
Organic Parameters	TDS (Filtered)	mg/L	10	262	286	276	280	277	312	297	294
	Total Suspended Solids	mg/L	3	126	55	29	28	30	26	41	58
	Turbidity	NTU	0.1	34.7	19.8	12.3	12.1	12.2	10.3	14.3	17.5
Polycyclic Aromatic Hydrocarbons	Benzo[<i>b</i> + <i>j</i>]fluoranthene	mg/L	0.00001	<0.00001	<0.00001	<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	<0.04	<0.04	<0.04
	C4 Dibenzothiophenes	µg/L	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
	C4 Fluoranthenes/Pyrenes	µg/L	0.04	<0.04	<0.04	<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"

OBED MOUNTAIN MINE
TABLE 4 PLANTE CREEK DOWNSTREAM (PLC-DS1 and PLC-D2)

				Location	PLC-D2	PLC-D2	PLC-D2	PLC-D2	PLC-D2	PLC-D2	PLC-D2	PLC-D2
				Date	15-Nov-13	16-Nov-13	17-Nov-13	18-Nov-13	19-Nov-13	20-Nov-13	21-Nov-13	22-Nov-13
Method Type	Chemical	Unit	MDL									
	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	0.108	0.058	<0.04	0.059	<0.04	0.051	0.058	0.113	
	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	<0.04	<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 Fluorenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04	<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	<0.01	<0.01	<0.01	<0.01	<0.01
	Dibenzothiophene	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	<0.04	<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	0.108	0.058	0.031	0.059	0.026	0.031	0.058	0.113	
	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
	C3 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
Total Metals	Aluminium	mg/L	0.003	0.934	0.396	0.498	0.47	0.348	0.332	0.45	0.589	
	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	0.0001	0.00113	0.00061	0.00066	0.00064	0.00056	0.00048	0.00066	0.00076	
	Barium	mg/L	0.00005	0.188	0.115	0.115	0.109	0.117	0.11	0.117	0.157	
	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	0.000053	0.000061	
	Boron (hot water ext)	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	Cadmium	mg/L	0.00001	0.000036	0.000019	0.000014	0.000014	0.000013	0.000014	0.000033	0.000025	
	Calcium	mg/L	0.02	63.2	56.1	61.4	62.6	60.8	66.6	64.8	67.8	
	Chromium (III+VI)	mg/L	0.0001	0.00107	0.00056	0.00046	0.00039	0.0004	0.00036	0.00131	0.00068	
	Cobalt	mg/L	0.0001	0.00056	0.00026	0.00021	0.00021	0.00021	0.00017	0.0003	0.00033	
	Copper	mg/L	0.0001	0.0021	0.00167	0.00094	0.00093	0.00065	0.00076	0.00124	0.0013	
	Iron	mg/L	0.01	1.3	0.58	0.548	0.506	0.427	0.664	0.664	0.81	
	Lead	mg/L	0.00005	0.00221	0.000919	0.000583	0.000632	0.000617	0.000529	0.000897	0.0012	
	Lithium	mg/L	0.005	0.0063	0.0054	0.006	0.0061	<0.005	0.0067	0.0065	0.007	
	Magnesium	mg/L	0.005	14.1	15.1	16.8	16.3	15.1	16.7	16.1	16	
	Manganese	mg/L	0.00005	0.0373	0.0207	0.018	0.0178	0.0164	0.0161	0.0205	0.0247	
	Mercury	ug/L	0.0005	0.0066	0.0043	0.0028	0.00251	0.00293	0.00447	0.0039	0.00292	
	Molybdenum	mg/L	0.00005	0.000907	0.000815	0.000857	0.00091	0.00086	0.000901	0.00188	0.000884	
	Nickel	mg/L	0.0001	0.00188	0.00114	0.00082	0.00081	0.00085	0.00075	0.00102	0.00122	

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

OBED MOUNTAIN MINE
TABLE 4 PLANTE CREEK DOWNSTREAM (PLC-DS1 and PLC-D2)

		Location Date	PLC-D2 15-Nov-13	PLC-D2 16-Nov-13	PLC-D2 17-Nov-13	PLC-D2 18-Nov-13	PLC-D2 19-Nov-13	PLC-D2 20-Nov-13	PLC-D2 21-Nov-13	PLC-D2 22-Nov-13
Method Type	Chemical	Unit	MDL							
	Phosphorus	mg/L	0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
	Potassium	mg/L	0.05	0.995	0.904	0.958	0.978	0.874	0.963	0.955
	Selenium	mg/L	0.0001	0.00013	0.00014	0.00012	0.00015	0.00013	0.00011	0.00016
	Silicon	µg/L	50	5610	4630	5270	4920	4670	5400	5240
	Silver	mg/L	0.00001	0.00002	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000014
	Sodium	mg/L	0.05	14.7	15.5	16	16.5	15.1	16.4	17.1
	Strontium	mg/L	0.0001	0.375	0.352	0.364	0.367	0.359	0.36	0.362
	Thallium	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
	Tin	mg/L	0.0001	0.00011	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00011
	Titanium	mg/L	0.0003	0.0276	0.0104	0.0162	0.0115	0.00969	0.00932	0.0153
	Uranium	µg/L	0.01	1.54	1.27	1.34	1.4	1.24	1.34	1.23
	Vanadium	mg/L	0.0001	0.00197	0.00093	0.00101	0.00097	0.00088	0.00069	0.00136
	Zinc	mg/L	0.003	0.0098	0.0075	0.0033	0.0032	0.0064	0.0082	0.0091
Volatile Organic Compounds	1,1,1-trichloroethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1
	1,1,2,2-tetrachloroethane	µg/L	20	<20	<20	<20	<20	<20	<20	<20
	1,1,2-trichloroethane	µg/L	2	<2	<2	<2	<2	<2	<2	<2
	1,1-dichloroethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1
	1,1-dichloroethene	µg/L	1	<1	<1	<1	<1	<1	<1	<1
	1,2,3-trichloropropane	µg/L	5	<5	<5	<5	<5	<5	<5	<5
	1,2-dibromoethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1
	1,2-dichlorobenzene	µg/L	1	<1	<1	<1	<1	<1	<1	<1
	1,2-dichloroethane	µg/L	2	<2	<2	<2	<2	<2	<2	<2
	1,2-dichloropropane	µg/L	2	<2	<2	<2	<2	<2	<2	<2
	1,3-dichlorobenzene	µg/L	1	<1	<1	<1	<1	<1	<1	<1
	1,4-dichlorobenzene	µg/L	1	<1	<1	<1	<1	<1	<1	<1
	Methyl Ethyl Ketone	µg/L	100	<100	<100	<100	<100	<100	<100	<100
	2-hexanone (MBK)	µg/L	10	<10	<10	<10	<10	<10	<10	<10
	4-Methyl-2-pentanone	µg/L	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
	Acrolein	µg/L	100	<100	<100	<100	<100	<100	<100	<100
	Acrylonitrile	µg/L	100	<100	<100	<100	<100	<100	<100	<100
	Benzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Toluene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	Bromodichloromethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1
	Bromoform	µg/L	3	<3	<3	<3	<3	<3	<3	<3
	Bromomethane	µg/L	10	<10	<10	<10	<10	<10	<10	<10
	Carbon disulfide	µg/L	1	<1	<1	<1	<1	<1	<1	<1
	Carbon tetrachloride	µg/L	1	<1	<1	<1	<1	<1	<1	<1
	Chlorobenzene	µg/L	1	<1	<1	<1	<1	<1	<1	<1
	Chlorodibromomethane	µg/L	3	<3	<3	<3	<3	<3	<3	<3
	Chloroethane	µg/L	10	<10	<10	<10	<10	<10	<10	<10
	Chloroform	µg/L	1	<1	<1	<1	<1	<1	<1	<1
	Chloromethane	µg/L	10	<10	<10	<10	<10	<10	<10	<10
	cis-1,2-dichloroethene	µg/L	1	<1	<1	<1	<1	<1	<1	<1
	cis-1,3-dichloropropene	µg/L	1	<1	<1	<1	<1	<1	<1	<1
	cis-1,4-Dichloro-2-butene	µg/L	10	<10	<10	<10	<10	<10	<10	<10
	Dibromomethane	µg/L	3	<3	<3	<3	<3	<3	<3	<3
	Dichlorodifluoromethane	µg/L	3	<3	<3	<3	<3	<3	<3	<3
Dichloromethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	
Ethanol	µg/L	300	<300	<300	<300	<300	<300	<300	<300	
Ethyl methacrylate	µg/L	10	<10	<10	<10	<10	<10	<10	<10	
Ethylbenzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Xylene (m & p)	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Xylene (o)	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Iodomethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	
Styrene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	
Trichloroethene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	
Tetrachloroethene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	
trans-1,2-dichloroethene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	
trans-1,3-dichloropropene	µg/L	1	<1	<1	<1	<1	<1	<1	<1	
trans-1,4-Dichloro-2-butene	µg/L	10	<10	<10	<10	<10	<10	<10	<10	
Trichlorofluoromethane	µg/L	1	<1	<1	<1	<1	<1	<1	<1	
Vinyl acetate	µg/L	100	<100	<100	<100	<100	<100	<100	<100	
Vinyl chloride	µg/L	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"

OBED MOUNTAIN MINE
TABLE 4 PLANTE CREEK DOWNSTREAM (PLC-DS1 and PLC-D2)

		Location	PLC-D2	PLC-D2	PLC-D2
		Date	24-Nov-13	25-Nov-13	26-Nov-13
Method Type	Chemical	Unit	MDL		
Aggregate Organics	Hydrocarbons, Recoverable (I.R.)	mg/L	1	<1	<1
	BOD	mg/L	2	<2	<2
	Phenols (4AAP)	µg/L	1	<1	<1 - 1.3
Anions and Nutrients	Alkalinity (T) as CaCO3	mg/L	2	261	244
	Ammonia	mg/L	0.05	<0.05	<0.05
	Bicarbonate	mg/L	5	319	297
	Carbonate	mg/L	5	<5	<5
	Chloride	mg/L	0.5	<0.5	<0.5
	Electrical Conductivity (lab)	dS/m	0.0002	0.471	0.472 - 0.473
	Hydroxide	mg/L	5	<5	<5
	Ionic Balance	%		93.5	101
	Kjeldahl Nitrogen Total	mg/L	0.2	<0.2	<0.2 - 0.2
	Nitrate (as N)	mg/L	0.05	0.082	0.067 - 0.07
	Nitrate + Nitrite-N	mg/L	0.07	0.082	<0.071
	Nitrite (as N)	mg/L	0.05	<0.05	<0.05
	pH (Lab)	pH	0.1	8.22	8.18 - 8.22
	Phosphorus	mg/L	0.001	0.0311	0.0347 - 0.037
	Phosphorus (Filtered)	mg/L	0.001	0.0014	0.0021 - 0.0026
	Sulphate	mg/L	0.5	20.2	17.5 - 18.8
	Sulphide	mg/L	0.002	<0.002	<0.002
	Hardness as CaCO3	mg/L		227	229 - 230
	TDS	mg/L		275	262 - 264
Cyanides	Cyanide Total	mg/L	0.005	<0.005	<0.005
Dissolved Metals	Aluminium (Filtered)	mg/L	0.001	0.0024	0.002 - 0.0036
	Antimony (Filtered)	mg/L	0.0001	<0.0001	<0.0001
	Arsenic (Filtered)	mg/L	0.0001	0.0003	0.00025 - 0.00085
	Barium (Filtered)	mg/L	0.0005	0.0886	0.0803 - 0.0805
	Beryllium (Filtered)	mg/L	0.0005	<0.0005	<0.0005
	Bismuth (Filtered)	mg/L	0.00005	<0.00005	<0.00005
	Boron (hot water ext) (Filtered)	mg/L	0.01	<0.01	<0.01
	Cadmium (Filtered)	mg/L	0.00001	<0.00001	<0.00001
	Calcium (Filtered)	mg/L	0.02	64.7	66.1 - 66.7
	Chromium (III+VI) (Filtered)	mg/L	0.0001	<0.0001	<0.0001
	Cobalt (Filtered)	mg/L	0.0001	<0.0001	<0.0001
	Copper (Filtered)	mg/L	0.0001	0.00022	0.00016
	Iron (Filtered)	mg/L	0.01	<0.01	0.013 - 0.02
	Lead (Filtered)	mg/L	0.00005	<0.00005	<0.00005
	Lithium (Filtered)	mg/L	0.003	0.006	0.0066 - 0.007
	Magnesium (Filtered)	mg/L	0.005	15.9	15.5 - 15.6
	Manganese (Filtered)	mg/L	0.00005	0.00569	0.00605
	Molybdenum (Filtered)	mg/L	0.00005	0.000804	0.000832 - 0.000836
	Nickel (Filtered)	mg/L	0.0001	0.00033	0.00029 - 0.00032
	Phosphorus (Filtered)	mg/L	0.3	<0.3	<0.3
	Potassium (Filtered)	mg/L	0.05	0.83	0.82
	Selenium (Filtered)	mg/L	0.0001	0.00014	0.00012 - 0.00014
	Silicon (Filtered)	µg/L	50	4470	4300 - 4350
	Silver (Filtered)	mg/L	0.00001	<0.00001	<0.00001
	Sodium (Filtered)	mg/L	0.05	16.8	15.5 - 15.6
	Strontium (Filtered)	mg/L	0.0001	0.37	0.377 - 0.388
	Thallium (Filtered)	mg/L	0.00005	<0.00005	<0.00005
	Tin (Filtered)	mg/L	0.0001	<0.0001	<0.0001
	Titanium (Filtered)	mg/L	0.0003	<0.0003	<0.0003
	Uranium (Filtered)	µg/L	0.01	1.11	1.13 - 1.14
	Vanadium (Filtered)	mg/L	0.0001	0.00018	0.00016
	Zinc (Filtered)	mg/L	0.001	<0.001	<0.001
	Historical	BOD	mg/L		-
Organic / Inorganic Carbon	Carbon	mg/L	1	4.1	3.4 - 3.9
	Dissolved Organic Carbon (Filtered)	mg/L	1	3.8	3.3 - 3.7
Organic Parameters	Naphthenic Acid	mg/L	1	<1	<1
Physical Tests	TDS (Filtered)	mg/L	10	284	275 - 278
	Total Suspended Solids	mg/L	3	67	68 - 69
	Turbidity	NTU	0.1	17.7	13 - 16.4
Polycyclic Aromatic Hydrocarbons	Benzo[b+h]fluoranthene	mg/L	0.00001	<0.00001	<0.00001
	C4 Benzantracenes/Chrysenes	µg/L	0.04	<0.04	<0.04
	C4 Dibenzothiophenes	µg/L	0.04	<0.04	<0.04
	C4 Fluoranthenes/Pyrenes	µg/L	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"

OBED MOUNTAIN MINE
TABLE 4 PLANTE CREEK DOWNSTREAM (PLC-DS1 and PLC-D2)

				Location	PLC-D2	PLC-D2	PLC-D2
				Date	24-Nov-13	25-Nov-13	26-Nov-13
Method Type	Chemical	Unit	MDL				
	C4 Naphthalenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04
	C4 Phenanthrenes/Anthracenes	ug/L	0.04	0.192	0.109 - 0.174	0.067 - 0.256	
	1,1-Biphenyl	ug/L	0.01	<0.01	<0.01	<0.01	<0.01
	1-Methylnaphthalene	ug/L	0.01	<0.01	<0.01	<0.01	<0.01
	2-methylnaphthalene	ug/L	0.01	<0.01	<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	<0.04	<0.04	<0.01	<0.01
	Benzo(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 Fluorenes	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	<0.01	<0.01	<0.01
	Fluorene	ug/L	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
	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	<0.01	<0.01	<0.01
	Pyrene	ug/L	0.01	<0.04	<0.04	<0.01	<0.01
	Quinoline	ug/L	0.01	<0.01	<0.01	<0.01	<0.01
	Retene	ug/L	0.01	0.193	0.109 - 0.174	0.067 - 0.256	
	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	<0.04	<0.04	<0.04
	C2 Phenanthrenes/Anthracenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04
	C2 Fluorenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04
	C3 Benzanthracenes/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	<0.04	<0.04	<0.04	<0.04
	C3 Phenanthrenes/Anthracenes	ug/L	0.04	<0.04	<0.04	<0.04	<0.04
Total Metals	Aluminium	mg/L	0.003	0.462	0.456 - 0.633	0.324 - 0.546	
	Antimony	mg/L	0.0001	<0.0001	0.00012	0.00011 - 0.00012	
	Arsenic	mg/L	0.0001	0.0006	0.00064 - 0.00077	0.00047 - 0.00069	
	Barium	mg/L	0.00005	0.146	0.131 - 0.141	0.104 - 0.13	
	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	0.000021	0.000017 - 0.000033	0.000013 - 0.000029	
	Calcium	mg/L	0.02	68.6	66.8 - 69.2	61 - 64.4	
	Chromium (III+VI)	mg/L	0.0001	0.00057	0.00053 - 0.00072	0.00045 - 0.0007	
	Cobalt	mg/L	0.0001	0.00031	0.00032 - 0.00039	0.0002 - 0.00034	
	Copper	mg/L	0.0001	0.00135	0.00138 - 0.00147	0.00094 - 0.00138	
	Iron	mg/L	0.01	0.756	0.726 - 0.917	0.537 - 0.826	
	Lead	mg/L	0.00005	0.00111	0.00105 - 0.00127	0.000607 - 0.00156	
	Lithium	mg/L	0.005	0.007	0.0064 - 0.007	0.0059 - 0.0065	
	Magnesium	mg/L	0.005	15.5	16.1 - 16.7	14.7 - 15.1	
	Manganese	mg/L	0.00005	0.0262	0.0276 - 0.0289	0.0227 - 0.0276	
	Mercury	ug/L	0.0005	0.00273	0.00466 - 0.00555	0.00311 - 0.00608	
	Molybdenum	mg/L	0.00005	0.00085	0.00079 - 0.000825	0.000746 - 0.00078	
	Nickel	mg/L	0.0001	0.001	0.00104 - 0.00121	0.00087 - 0.0013	

Notes

MDL - Method Detection Limit

- "Sample not analyzed for this parameter"

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

OBED MOUNTAIN MINE
TABLE 4 PLANTE CREEK DOWNSTREAM (PLC-DS1 and PLC-D2)

		Location	PLC-D2	PLC-D2	PLC-D2
		Date	24-Nov-13	25-Nov-13	26-Nov-13
Method Type	Chemical	Unit	MDL		
	Phosphorus	mg/L	0.3	<0.3	<0.3
	Potassium	mg/L	0.05	0.909	0.862 - 0.916
	Selenium	mg/L	0.0001	0.00014	0.00014 - 0.00015
	Silicon	ug/L	50	4940	4990 - 5380
	Silver	mg/L	0.00001	<0.00001	<0.00001 - 0.000018
	Sodium	mg/L	0.05	15.8	15.5 - 16.1
	Strontium	mg/L	0.0001	0.413	0.361 - 0.38
	Thallium	mg/L	0.00005	<0.00005	<0.00005
	Tin	mg/L	0.0001	<0.0001	<0.0001
	Titanium	mg/L	0.0003	0.0144	0.0206 - 0.0226
	Uranium	ug/L	0.01	1.29	1.33 - 1.36
	Vanadium	mg/L	0.0001	0.0011	0.0012 - 0.00186
	Zinc	mg/L	0.003	0.0053	0.0078 - 0.0091
Volatile Organic Compounds	1,1,1-trichloroethane	ug/L	1	<1	<1
	1,1,2,2-tetrachloroethane	ug/L	20	<20	<20
	1,1,2-trichloroethane	ug/L	2	<2	<2
	1,1-dichloroethane	ug/L	1	<1	<1
	1,1-dichloroethene	ug/L	1	<1	<1
	1,2,3-trichloropropane	ug/L	5	<5	<5
	1,2-dibromoethane	ug/L	1	<1	<1
	1,2-dichlorobenzene	ug/L	1	<1	<1
	1,2-dichloroethane	ug/L	2	<2	<2
	1,2-dichloropropane	ug/L	2	<2	<2
	1,3-dichlorobenzene	ug/L	1	<1	<1
	1,4-dichlorobenzene	ug/L	1	<1	<1
	Methyl Ethyl Ketone	ug/L	100	<100	<100
	2-hexanone (MBK)	ug/L	10	<10	<10
	4-Methyl-2-pentanone	ug/L	10	<10	<10
	Acetone	mg/L	0.1	<0.1	<0.1
	Acrolein	ug/L	100	<100	<100
	Acrylonitrile	ug/L	100	<100	<100
	Benzene	mg/L	0.001	<0.001	<0.001
	Toluene	mg/L	0.001	<0.001	<0.001
	Bromodichloromethane	ug/L	1	<1	<1
	Bromoform	ug/L	3	<3	<3
	Bromomethane	ug/L	10	<10	<10
	Carbon disulfide	ug/L	1	<1	<1
	Carbon tetrachloride	ug/L	1	<1	<1
	Chlorobenzene	ug/L	1	<1	<1
	Chlorodibromomethane	ug/L	3	<3	<3
	Chloroethane	ug/L	10	<10	<10
	Chloroform	ug/L	1	<1	<1
	Chloromethane	ug/L	10	<10	<10
	cis-1,2-dichloroethene	ug/L	1	<1	<1
	cis-1,3-dichloropropene	ug/L	1	<1	<1
	cis-1,4-Dichloro-2-butene	ug/L	10	<10	<10
	Dibromomethane	ug/L	3	<3	<3
	Dichlorodifluoromethane	ug/L	3	<3	<3
	Dichloromethane	ug/L	1	<1	<1
	Ethanol	ug/L	300	<300	<300
	Ethyl methacrylate	ug/L	10	<10	<10
	Ethylbenzene	mg/L	0.001	<0.001	<0.001
	Xylene (m & p)	mg/L	0.001	<0.001	<0.001
	Xylene (o)	mg/L	0.001	<0.001	<0.001
	Iodomethane	ug/L	1	<1	<1
	Styrene	ug/L	1	<1	<1
	Trichloroethene	ug/L	1	<1	<1
	Tetrachloroethene	ug/L	1	<1	<1
	trans-1,2-dichloroethene	ug/L	1	<1	<1
	trans-1,3-dichloropropene	ug/L	1	<1	<1
	trans-1,4-Dichloro-2-butene	ug/L	10	<10	<10
	Trichlorofluoromethane	ug/L	1	<1	<1
	Vinyl acetate	ug/L	100	<100	<100
	Vinyl chloride	ug/L	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"