

Obed Mountain Mine  
September 2014 Water Quality Data

Location	APC										APC-1	APC-2	APC-3	APC-4	APC-5	APC-6	APC-7	APC-US-1	APC-US-2	APC-US-3
Date	22-Sep-14	29-Sep-14	05-Sep-14	08-Sep-14	11-Sep-14	18-Sep-14	22-Sep-14	25-Sep-14	29-Sep-14	12-Sep-14	12-Sep-14	19-Sep-14	12-Sep-14	19-Sep-14	11-Sep-14	11-Sep-14	20-Sep-14	20-Sep-14	20-Sep-14	
Sample Type	Trip_B	Trip_B	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal	Normal	Normal	Normal	Normal	Normal

Parameter	Unit	MDL																			
<b>Aggregate Organics</b>																					
Hydrocarbons, Recoverable (I.R.)	mg/L	1	<1	<1	-	<1	-	-	<1	-	<1	-	-	-	-	-	-	-	-	-	
BOD	mg/L	2	<2	<2	-	<2	-	-	<2	-	<2	-	-	-	-	-	-	-	-	-	
Phenols (4AAP)	µg/L	1	<1	<1	-	<1	-	-	<1	-	<1	-	-	-	-	-	-	-	-	-	
<b>Anions and Nutrients</b>																					
Alkalinity (T) as CaCO3	mg/L	2	<2	<2	-	327	-	-	305	-	303	-	-	-	-	-	-	-	-	-	
Ammonia	mg/L	0.05	<0.05	<0.05	-	<0.05	-	-	<0.05	-	<0.05	-	-	-	-	-	-	-	-	-	
Bicarbonate	mg/L	5	<5	<5	-	385	-	-	363	-	353	-	-	-	-	-	-	-	-	-	
Carbonate	mg/L	5	<5	<5	-	6.7	-	-	<5	-	8.1	-	-	-	-	-	-	-	-	-	
Chloride	mg/L	0.5	<0.5	<0.5	-	1.35	-	-	1.46	-	1.51	-	-	-	-	-	-	-	-	-	
Electrical Conductivity (lab)	mS/cm	0.0002	0.00058	0.00069	-	0.886	-	-	0.797	-	0.784	-	-	-	-	-	-	-	-	-	
Hydroxide	mg/L	5	<5	<5	-	<5	-	-	<5	-	<5	-	-	-	-	-	-	-	-	-	
Ionic Balance	%	-	-	-	-	101	-	-	103	-	96.3	-	-	-	-	-	-	-	-	-	
Kjeldahl Nitrogen Total	mg/L	0.2	<0.2	<0.2	-	<0.2	-	-	<0.2	-	<0.2	-	-	-	-	-	-	-	-	-	
Nitrate (as N)	mg/L	0.05	<0.05	<0.05	-	<0.05	-	-	0.112	-	0.12	-	-	-	-	-	-	-	-	-	
Nitrite (as N)	mg/L	0.02	<0.02	<0.02	-	<0.02	-	-	<0.02	-	<0.02	-	-	-	-	-	-	-	-	-	
Nitrogen (Total Oxidised)	mg/L	0.05	<0.054	<0.054	-	<0.054	-	-	0.112	-	0.12	-	-	-	-	-	-	-	-	-	
pH (Lab)	pH	0.1	5.82	5.1	-	8.43	-	-	8.38	-	8.49	-	-	-	-	-	-	-	-	-	
Phosphorus	mg/L	0.001	<0.001	<0.001	-	0.0202	-	-	0.0038	-	0.0052	-	-	-	-	-	-	-	-	-	
Phosphorus (Filtered)	mg/L	0.001	<0.001	<0.001	-	<0.001	-	-	<0.001	-	0.0021	-	-	-	-	-	-	-	-	-	
Sulphate	mg/L	0.5	<0.5	<0.5	-	157	-	-	127	-	121	-	-	-	-	-	-	-	-	-	
Sulphide	mg/L	0.0015	<0.0015	<0.0015	-	<0.0015	-	-	<0.0015	-	<0.0015	-	-	-	-	-	-	-	-	-	
Hardness as CaCO3	mg/L		<1	<1	-	278	-	-	251	-	244	-	-	-	-	-	-	-	-	-	
Total Dissolved Solids	mg/L		1.2	<1	-	548	-	-	486	-	467	-	-	-	-	-	-	-	-	-	
<b>Dissolved Metals</b>																					
Aluminium (Filtered)	mg/L	0.001	<0.001	<0.001	0.0024	0.003	0.0014	0.0032	0.0037	0.0033	0.005	-	-	-	-	-	-	-	-	-	
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	<0.0001	<0.0001	0.00043	0.00043	0.00041	0.00036	0.00039	0.0004	0.00035	-	-	-	-	-	-	-	-	-	
Barium (Filtered)	mg/L	0.00005	<0.00005	<0.00005	0.105	0.0997	0.106	0.0995	0.11	0.108	0.0963	-	-	-	-	-	-	-	-	-	
Beryllium (Filtered)	mg/L	0.0001	<0.0005	<0.0005	<0.0001	<0.0005	<0.0001	<0.0001	<0.0005	<0.0001	<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 (Filtered)	mg/L	0.01	<0.01	<0.01	0.041	0.058	0.053	0.042	0.051	0.043	-	-	-	-	-	-	-	-	-	-	
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	<0.5	<0.5	61.2	60.3	59.8	56	59.3	60.7	58.7	-	-	-	-	-	-	-	-	-	
Chromium (III+VI) (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	0.00015	<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	<0.0001	<0.0001	0.00023	0.00036	0.00023	0.00039	0.0003	0.00034	0.00047	-	-	-	-	-	-	-	-	-	
Iron (Filtered)	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<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	<0.00005	-	-	-	-	-	-	-	-	-	
Lithium (Filtered)	mg/L	0.003	<0.003	<0.003	0.0362	0.0491	0.0415	0.0329	0.0349	0.0398	0.0313	-	-	-	-	-	-	-	-	-	
Magnesium (Filtered)	mg/L	0.005	<0.1	<0.1	28.2	31	28.6	27.7	25.1	25.3	23.7	-	-	-	-	-	-	-	-	-	
Manganese (Filtered)	mg/L	0.00005	<0.00005	<0.00005	0.0503	0.00516	0.0011	0.00782	0.0519	0.0231	0.0292	-	-	-	-	-	-	-	-	-	
Molybdenum (Filtered)	mg/L	0.00005	<0.00005	<0.00005	0.00165	0.0018	0.0018	0.00165	0.00181	0.00188	0.0019	-	-	-	-	-	-	-	-	-	
Nickel (Filtered)	mg/L	0.0001	<0.0001	<0.0001	0.00055	0.00053	0.00055	0.00062	0.00065	0.00061	0.00071	-	-	-	-	-	-	-	-	-	
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	<0.5	<0.5	2.29	2.42	2.25	2.35	2.23	2.62	2.32	-	-	-	-	-	-	-	-	-	
Selenium (Filtered)	mg/L	0.0001	<0.0001	<0.0001	0.00016	0.00023	0.00053	0.00043	0.00061	0.00052	0.00062	-	-	-	-	-	-	-	-	-	
Silicon (Filtered)	mg/L	0.05	<0.05	<0.05	4.1	4.29	4.24	3.66	3.8	4.24	4.04	-	-	-	-	-	-	-	-	-	
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	1.2	<1	87.7	99.9	90.6	87.9	87.6	85.9	77.5	-	-	-	-	-	-	-	-	-	
Strontium (Filtered)	mg/L	0.0001	<0.0001	<0.0001	0.868	0.862	0.86	0.8	0.794	0.807	0.781	-	-	-	-	-	-	-	-	-	
Thallium (Filtered)	mg/L	0.00001	<0.00005	<0.00005	<0.00001	<0.00005	<0.00001	<0.00001	<0.00005	<0.00001	<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	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	-	-	-	-	-	-	-	-	-	
Uranium (Filtered)	mg/L	0.00001	<0.00001	<0.00001	0.00331	0.00329	0.00337	0.00316	0.00335	0.00303	0.00326	-	-	-	-	-	-	-	-	-	
Vanadium (Filtered)	mg/L	0.0001	<0.0001	<0.0001	0.00018	0.00028	0.00023	0.00022	0.0002	0.00018	0.00019	-	-	-	-	-	-	-	-	-	
Zinc (Filtered)	mg/L	0.001	0.829	<0.001	<0.001	<0.001	<0.001	<0.001	0.005	<0.001	<0.001	-	-	-	-	-	-	-	-	-	
<b>Organic / Inorganic Carbon</b>																					
Dissolved Organic Carbon (Filtered)	mg/L	1	<1	<1	-	3.7	-	-	3.9	-	4.8	-	-	-	-	-	-	-	-	-	





Obed Mountain Mine  
September 2014 Water Quality Data

Location	APC-US-4	APC-US-5	ATR-AT1	ATR-CON		ATR-D1						ATR-D2							
Date	20-Sep-14	20-Sep-14	23-Sep-14	09-Sep-14	25-Sep-14	05-Sep-14	08-Sep-14	11-Sep-14	18-Sep-14	22-Sep-14	25-Sep-14	29-Sep-14	05-Sep-14	08-Sep-14	11-Sep-14	18-Sep-14	22-Sep-14	25-Sep-14	29-Sep-14
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal

Parameter	Unit	MDL																			
<b>Aggregate Organics</b>																					
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	-	<2
Phenols (4AAP)	µg/L	1	-	-	<1	<1	-	-	<1	-	-	<1	-	<1	-	<1	-	-	<1	-	<1
<b>Anions and Nutrients</b>																					
Alkalinity (T) as CaCO3	mg/L	2	-	-	129	95.4	-	-	93.9	-	-	91.3	-	86.1	-	93.4	-	-	90.3	-	87
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	-	-	158	116	-	-	115	-	-	111	-	105	-	114	-	-	110	-	106
Carbonate	mg/L	5	-	-	<5	<5	-	-	<5	-	-	<5	-	<5	-	<5	-	-	<5	-	<5
Chloride	mg/L	0.5	-	-	1.58	0.77	-	-	0.92	-	-	<0.5	-	<0.5	-	0.84	-	-	<0.5	-	<0.5
Electrical Conductivity (lab)	mS/cm	0.0002	-	-	0.317	0.284	-	-	0.285	-	-	0.27	-	0.255	-	0.285	-	-	0.27	-	0.253
Hydroxide	mg/L	5	-	-	<5	<5	-	-	<5	-	-	<5	-	<5	-	<5	-	-	<5	-	<5
Ionic Balance	%		-	-	103	105	-	-	105	-	-	102	-	100	-	105	-	-	98.8	-	95.1
Kjeldahl Nitrogen Total	mg/L	0.2	-	-	0.2	<0.2	-	-	<0.2	-	-	<0.2	-	<0.2	-	<0.2	-	-	<0.2	-	<0.2
Nitrate (as N)	mg/L	0.05	-	-	<0.05	0.05	-	-	<0.05	-	-	<0.05	-	<0.05	-	<0.05	-	-	<0.05	-	<0.05
Nitrite (as N)	mg/L	0.02	-	-	<0.02	<0.02	-	-	<0.02	-	-	<0.02	-	<0.02	-	<0.02	-	-	<0.02	-	<0.02
Nitrogen (Total Oxidised)	mg/L	0.05	-	-	<0.054	<0.054	-	-	<0.054	-	-	<0.054	-	<0.054	-	<0.054	-	-	<0.054	-	<0.054
pH (Lab)	pH	0.1	-	-	8.27	8.1	-	-	8.11	-	-	8.19	-	8.17	-	8.12	-	-	8.17	-	8.12
Phosphorus	mg/L	0.001	-	-	0.0079	0.0075	-	-	0.0081	-	-	0.0162	-	0.0152	-	0.0075	-	-	0.0139	-	0.0185
Phosphorus (Filtered)	mg/L	0.001	-	-	0.0031	0.0021	-	-	0.0019	-	-	0.0014	-	0.0024	-	0.0015	-	-	<0.001	-	0.0028
Sulphate	mg/L	0.5	-	-	31	44.1	-	-	46	-	-	43.6	-	39.9	-	45.8	-	-	42.9	-	38.6
Sulphide	mg/L	0.0015	-	-	<0.0015	<0.0015	-	-	<0.0015	-	-	<0.0015	-	0.0016	-	<0.0015	-	-	<0.0015	-	0.0015
Hardness as CaCO3	mg/L		-	-	147	143	-	-	142	-	-	133	-	122	-	141	-	-	126	-	116
Total Dissolved Solids	mg/L		-	-	172	156	-	-	157	-	-	148	-	137	-	156	-	-	145	-	134
<b>Dissolved Metals</b>																					
Aluminium (Filtered)	mg/L	0.001	-	-	0.0025	0.0069	0.016	0.0151	0.0093	0.0248	0.0459	0.0145	0.0196	0.0192	0.018	0.0075	0.0148	0.0409	0.0118	0.0133	0.0228
Antimony (Filtered)	mg/L	0.0001	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<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	-	-	0.00048	0.0001	0.00011	0.0001	<0.0001	<0.0001	0.00013	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	0.00011	<0.0001	<0.0001	<0.0001
Barium (Filtered)	mg/L	0.00005	-	-	0.0656	0.0435	0.0387	0.0394	0.047	0.0405	0.0524	0.0397	0.0394	0.0353	0.0395	0.0461	0.04	0.0504	0.039	0.038	0.0347
Beryllium (Filtered)	mg/L	0.0001	-	-	<0.0005	<0.0005	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0005	<0.0001	<0.0005	<0.0001	<0.0005	<0.0001	<0.0001	<0.0005	<0.0001	<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	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Boron (Filtered)	mg/L	0.01	-	-	0.018	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<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	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Calcium (Filtered)	mg/L	0.02	-	-	41	39	33.3	35.6	38.2	34.5	37.7	36.2	34.5	32.6	35.5	37.9	34.4	39	34.2	34.2	31.7
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	<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	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Copper (Filtered)	mg/L	0.0001	-	-	0.00055	0.00017	0.0002	0.00013	0.00013	<0.0001	0.00022	0.00016	0.00021	0.00023	0.00012	0.00019	<0.0001	0.00031	0.00015	0.00035	0.00019
Iron (Filtered)	mg/L	0.01	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<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	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Lithium (Filtered)	mg/L	0.003	-	-	0.0061	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Magnesium (Filtered)	mg/L	0.005	-	-	10.9	11	9.46	9.93	11.2	10.5	12.1	10.3	9.37	9.9	9.85	11.3	10.3	12	9.98	9.53	8.88
Manganese (Filtered)	mg/L	0.00005	-	-	0.000529	0.000139	0.000234	0.000196	0.000212	0.00025	0.000142	0.000173	0.000262	0.0012	0.000204	0.000128	0.000169	0.000067	0.000138	0.000174	0.00018
Molybdenum (Filtered)	mg/L	0.00005	-	-	0.000864	0.000668	0.000538	0.00058	0.000666	0.000566	0.000729	0.000588	0.000551	0.000654	0.000571	0.000706	0.000589	0.000712	0.000565	0.00055	0.000475
Nickel (Filtered)	mg/L	0.0001	-	-	0.00058	<0.0001	0.00018	0.00011	<0.0001	<0.0001	0.00013	0.00018	0.00016	0.00026	<0.0001	<0.0001	<0.0001	0.00012	0.00015	0.00013	0.00019
Phosphorus (Filtered)	mg/L	0.3	-	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<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	-	-	1.25	0.5	0.528	0.485	0.59	0.502	0.62	0.53	0.53	<0.5	0.48	0.58	0.494	0.618	0.52	0.529	<0.5
Selenium (Filtered)	mg/L	0.0001	-	-	0.00019	0.00018	0.00017	0.00019	0.00019	0.00019	0.00025	0.00018	0.00017	0.00012	0.00018	0.00019	0.00018	0.00026	0.00016	0.00016	0.00013
Silicon (Filtered)	mg/L	0.05	-	-	1.26	1.37	1.2	1.31	1.35	1.37	1.17	1.11	1.18	1.24	1.2	1.3	1.31	1.19	1.09	1.14	1.27
Silver (Filtered)	mg/L	0.00001	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<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	-	-	8.9	3.1	2.77	3.18	3.8	3.09	3.49	2.8	2.54	2.5	3.16	3.7	3.25	3.51	2.8	2.58	2.4
Strontium (Filtered)	mg/L	0.0001	-	-	0.321	0.358	0.332	0.341	0.355	0.35	0.413	0.349	0.334	0.289	0.342	0.373	0.347	0.417	0.342	0.333	0.285
Thallium (Filtered)	mg/L	0.00001	-	-	<0.00005	<0.00005	<0.00001	<0.00001	<0.00005	<0.00001	<0.00001	<0.00005	<0.00001	<0.00005	<0.00001	<0.00005	<0.00001	<0.00001	<0.00005	<0.00001	<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	<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	0.00											



Obed Mountain Mine  
September 2014 Water Quality Data

Location	APC-US-4	APC-US-5	ATR-AT1	ATR-CON		ATR-D1							ATR-D2						
Date	20-Sep-14	20-Sep-14	23-Sep-14	09-Sep-14	25-Sep-14	05-Sep-14	08-Sep-14	11-Sep-14	18-Sep-14	22-Sep-14	25-Sep-14	29-Sep-14	05-Sep-14	08-Sep-14	11-Sep-14	18-Sep-14	22-Sep-14	25-Sep-14	29-Sep-14
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal

Parameter	Unit	MDL																			
<b>Total Metals</b>																					
Aluminium	mg/L	0.003	-	-	0.055	0.176	0.413	0.19	0.0947	0.133	0.112	0.278	0.393	0.456	0.272	0.101	0.213	0.107	0.29	0.328	0.385
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	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Arsenic	mg/L	0.0001	-	-	0.00055	0.00017	0.00026	0.00019	0.00013	0.00017	0.00016	0.00023	0.00026	0.00024	0.00023	0.00015	0.00017	0.00015	0.00023	0.00025	0.00024
Barium	mg/L	0.00005	-	-	0.0673	0.0425	0.0477	0.045	0.0446	0.0412	0.052	0.0447	0.0472	0.0386	0.0428	0.0426	0.0427	0.0527	0.047	0.0466	0.0406
Beryllium	mg/L	0.0001	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Bismuth	mg/L	0.00005	-	-	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Boron	mg/L	0.01	-	-	0.013	<0.01	<0.01	<0.01	<0.01	<0.01	<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	-	-	0.000014	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Calcium	mg/L	0.02	-	-	37.9	41.3	35.7	37	38.1	35.2	39.4	37.8	34.3	39.9	37	38.5	35.6	39.6	40.6	36	39.9
Chromium (III+VI)	mg/L	0.0001	-	-	0.00013	0.00029	0.00054	0.00032	0.00012	0.00027	0.00013	0.0004	0.0005	0.00067	0.00043	0.00013	0.00033	0.00015	0.00039	0.00044	0.00054
Cobalt	mg/L	0.0001	-	-	<0.0001	0.00015	0.00029	0.00015	<0.0001	0.00012	<0.0001	0.00023	0.0003	0.00035	0.00021	<0.0001	0.00015	<0.0001	0.00024	0.00026	0.00035
Copper	mg/L	0.0001	-	-	0.00046	0.00038	0.00061	0.00038	0.00034	0.0003	0.00028	0.00056	0.00063	0.00072	0.00049	0.0004	0.00034	0.00031	0.00058	0.00113	0.00072
Iron	mg/L	0.01	-	-	0.112	0.267	0.554	0.273	0.129	0.212	0.129	0.436	0.56	0.684	0.427	0.128	0.265	0.111	0.45	0.52	0.602
Lead	mg/L	0.00005	-	-	0.000087	0.000217	0.000368	0.000212	0.000165	0.000176	0.000135	0.000283	0.000396	0.000436	0.000294	0.000171	0.000208	0.00011	0.000312	0.000345	0.000486
Lithium	mg/L	0.005	-	-	0.0051	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Magnesium	mg/L	0.005	-	-	11.3	11.7	10.3	10.9	11.5	10.9	12	10.8	10.2	10.2	10.9	11.2	11.1	12.2	11.5	10.5	10.3
Manganese	mg/L	0.00005	-	-	0.00909	0.0103	0.0132	0.00887	0.00814	0.00804	0.00778	0.0122	0.015	0.0153	0.0135	0.00804	0.008	0.00574	0.0133	0.0145	0.0175
Mercury	mg/L	0.0000005	-	-	6.7E-7	-	-	-	-	-	-	6.8E-7	-	0.00000107	-	-	-	-	0.00000101	-	0.00000127
Molybdenum	mg/L	0.00005	-	-	0.000874	0.000642	0.000544	0.000615	0.000546	0.000517	0.00059	0.000562	0.000508	0.000543	0.000621	0.000562	0.000536	0.000715	0.000596	0.000546	0.000433
Nickel	mg/L	0.0001	-	-	0.00073	0.00039	0.00067	0.0004	0.00026	0.00033	0.00029	0.00058	0.00071	0.00079	0.00054	0.00029	0.00039	0.00031	0.00061	0.00065	0.00079
Phosphorus	mg/L	0.3	-	-	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<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	-	-	1.28	0.566	0.74	0.579	0.59	0.556	0.66	0.644	0.694	0.649	0.582	0.583	0.603	0.67	0.683	0.68	0.627
Selenium	mg/L	0.0001	-	-	0.00018	0.00019	0.00015	0.00023	0.0002	0.00021	0.00025	0.00019	0.00017	0.00016	0.00017	0.00021	0.00019	0.00026	0.00019	0.00016	0.00013
Silicon	mg/L	0.05	-	-	1.4	1.59	2	1.44	1.46	1.4	1.32	1.37	1.97	1.71	1.44	1.45	1.42	1.26	1.45	1.77	1.53
Silver	mg/L	0.00001	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00001	<0.00001	<0.00001	<0.00001
Sodium	mg/L	0.05	-	-	8.07	3.25	2.97	3.45	3.64	3.08	3.71	2.97	2.67	2.81	3.18	3.8	3.24	3.84	3.04	2.74	2.97
Strontium	mg/L	0.0001	-	-	0.301	0.379	0.342	0.374	0.368	0.357	0.391	0.351	0.326	0.35	0.356	0.37	0.351	0.425	0.383	0.34	0.33
Thallium	mg/L	0.00001	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00003	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Tin	mg/L	0.0001	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Titanium	mg/L	0.0003	-	-	0.00096	0.00258	0.00443	0.00118	0.00156	0.00094	0.00114	0.00217	0.00332	<0.005	0.0028	0.00138	0.00349	0.00103	0.00208	0.00265	0.00271
Uranium	mg/L	0.00001	-	-	0.000553	0.000487	0.000437	0.000461	0.000451	0.000411	0.000464	0.000374	0.000406	0.000426	0.000451	0.00046	0.000419	0.000503	0.000409	0.000421	0.000396
Vanadium	mg/L	0.0001	-	-	0.00044	0.00037	0.00082	0.00048	0.00022	0.0005	0.0002	0.00055	0.00077	0.0006	0.00064	0.00024	0.00057	0.00027	0.00058	0.00074	0.0006
Zinc	mg/L	0.003	-	-	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.0034

Obed Mountain Mine  
September 2014 Water Quality Data

Location	ATR-FF-1	ATR-FF-2	ATR-FF-3	ATR-FF-4	ATR-FF-5		ATR-FF-6	ATR-FF-7	ATR-NF-1	ATR-NF-2		ATR-NF-3	ATR-NF-4	ATR-NF-5	ATR-PLC				
Date	25-Sep-14	25-Sep-14	25-Sep-14	25-Sep-14	23-Sep-14	25-Sep-14	22-Sep-14	22-Sep-14	24-Sep-14	24-Sep-14	24-Sep-14	24-Sep-14	24-Sep-14	24-Sep-14	05-Sep-14	11-Sep-14	18-Sep-14	22-Sep-14	29-Sep-14
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal

Parameter	Unit	MDL																			
<b>Aggregate Organics</b>																					
Hydrocarbons, Recoverable (I.R.)	mg/L	1	-	-	-	-	<1	-	<1	<1	-	-	-	-	-	-	-	-	<1	<1	
BOD	mg/L	2	-	-	-	-	<2	-	<2	<2	-	-	-	-	-	-	-	-	<2	<2	
Phenols (4AAP)	µg/L	1	-	-	-	-	<1	-	1.4	<1	-	-	-	-	-	-	-	-	<1	<1	
<b>Anions and Nutrients</b>																					
Alkalinity (T) as CaCO3	mg/L	2	-	-	-	-	126	-	112	114	-	-	-	-	-	-	-	-	221	197	
Ammonia	mg/L	0.05	-	-	-	-	<0.05	-	<0.05	<0.05	-	-	-	-	-	-	-	-	<0.05	<0.05	
Bicarbonate	mg/L	5	-	-	-	-	154	-	134	137	-	-	-	-	-	-	-	-	261	231	
Carbonate	mg/L	5	-	-	-	-	<5	-	<5	<5	-	-	-	-	-	-	-	-	<5	<5	
Chloride	mg/L	0.5	-	-	-	-	3.71	-	9.55	17	-	-	-	-	-	-	-	-	<0.5	<0.5	
Electrical Conductivity (lab)	mS/cm	0.0002	-	-	-	-	0.332	-	0.314	0.343	-	-	-	-	-	-	-	-	0.436	0.395	
Hydroxide	mg/L	5	-	-	-	-	<5	-	<5	<5	-	-	-	-	-	-	-	-	<5	<5	
Ionic Balance	%		-	-	-	-	102	-	100	101	-	-	-	-	-	-	-	-	106	99.3	
Kjeldahl Nitrogen Total	mg/L	0.2	-	-	-	-	<0.2	-	0.23	0.27	-	-	-	-	-	-	-	-	<0.2	<0.2	
Nitrate (as N)	mg/L	0.05	-	-	-	-	<0.05	-	<0.05	<0.05	-	-	-	-	-	-	-	-	<0.05	<0.05	
Nitrite (as N)	mg/L	0.02	-	-	-	-	<0.02	-	<0.02	<0.02	-	-	-	-	-	-	-	-	<0.02	<0.02	
Nitrogen (Total Oxidised)	mg/L	0.05	-	-	-	-	<0.054	-	<0.054	<0.054	-	-	-	-	-	-	-	-	<0.054	<0.054	
pH (Lab)	pH	0.1	-	-	-	-	8.24	-	8.33	8.33	-	-	-	-	-	-	-	-	8.4	8.47	
Phosphorus	mg/L	0.001	-	-	-	-	0.0077	-	0.0207	0.0228	-	-	-	-	-	-	-	-	0.0031	0.0059	
Phosphorus (Filtered)	mg/L	0.001	-	-	-	-	0.0021	-	0.0089	0.0063	-	-	-	-	-	-	-	-	0.0011	0.0036	
Sulphate	mg/L	0.5	-	-	-	-	34.3	-	30.5	29.2	-	-	-	-	-	-	-	-	18.3	19.7	
Sulphide	mg/L	0.0015	-	-	-	-	<0.0015	-	<0.0015	<0.0015	-	-	-	-	-	-	-	-	<0.0015	<0.0015	
Hardness as CaCO3	mg/L		-	-	-	-	142	-	123	128	-	-	-	-	-	-	-	-	215	186	
Total Dissolved Solids	mg/L		-	-	-	-	177	-	166	179	-	-	-	-	-	-	-	-	242	215	
<b>Dissolved Metals</b>																					
Aluminium (Filtered)	mg/L	0.001	-	-	-	-	0.0044	-	0.0043	0.0035	-	-	-	-	-	-	-	-	0.0034	0.0014	
Antimony (Filtered)	mg/L	0.0001	-	-	-	-	<0.0001	-	<0.0001	<0.0001	-	-	-	-	-	-	-	-	<0.0001	<0.0001	
Arsenic (Filtered)	mg/L	0.0001	-	-	-	-	0.00041	-	0.00041	0.00039	-	-	-	-	-	-	-	-	0.00028	0.00034	
Barium (Filtered)	mg/L	0.00005	-	-	-	-	0.0609	-	0.0504	0.0494	-	-	-	-	-	-	-	-	0.0716	0.0774	
Beryllium (Filtered)	mg/L	0.0001	-	-	-	-	<0.0005	-	<0.0005	<0.0005	-	-	-	-	-	-	-	-	<0.0001	<0.0001	
Bismuth (Filtered)	mg/L	0.00005	-	-	-	-	<0.00005	-	<0.00005	<0.00005	-	-	-	-	-	-	-	-	<0.00005	<0.00005	
Boron (Filtered)	mg/L	0.01	-	-	-	-	0.032	-	0.026	0.028	-	-	-	-	-	-	-	-	<0.01	<0.01	
Cadmium (Filtered)	mg/L	0.00001	-	-	-	-	0.000012	-	0.000012	<0.00001	-	-	-	-	-	-	-	-	<0.00001	<0.00001	
Calcium (Filtered)	mg/L	0.02	-	-	-	-	39.5	-	33.7	35.9	-	-	-	-	-	-	-	-	58.4	62.9	
Chromium (III+VI) (Filtered)	mg/L	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	
Copper (Filtered)	mg/L	0.0001	-	-	-	-	0.00056	-	0.00045	0.00053	-	-	-	-	-	-	-	-	0.00029	0.00014	
Iron (Filtered)	mg/L	0.01	-	-	-	-	0.01	-	0.018	0.019	-	-	-	-	-	-	-	-	<0.01	<0.01	
Lead (Filtered)	mg/L	0.00005	-	-	-	-	<0.00005	-	<0.00005	<0.00005	-	-	-	-	-	-	-	-	<0.00005	<0.00005	
Lithium (Filtered)	mg/L	0.003	-	-	-	-	0.0075	-	0.0064	0.0069	-	-	-	-	-	-	-	-	0.0056	0.0058	
Magnesium (Filtered)	mg/L	0.005	-	-	-	-	10.6	-	9.46	9.38	-	-	-	-	-	-	-	-	14.8	15.7	
Manganese (Filtered)	mg/L	0.00005	-	-	-	-	0.000573	-	0.000374	0.00189	-	-	-	-	-	-	-	-	0.000302	0.000293	
Molybdenum (Filtered)	mg/L	0.00005	-	-	-	-	0.000792	-	0.000899	0.000787	-	-	-	-	-	-	-	-	0.000744	0.000674	
Nickel (Filtered)	mg/L	0.0001	-	-	-	-	0.00078	-	0.00065	0.00079	-	-	-	-	-	-	-	-	0.00026	0.00026	
Phosphorus (Filtered)	mg/L	0.3	-	-	-	-	<0.3	-	<0.3	<0.3	-	-	-	-	-	-	-	-	<0.3	<0.3	
Potassium (Filtered)	mg/L	0.05	-	-	-	-	1.33	-	1.24	1.21	-	-	-	-	-	-	-	-	0.844	0.857	
Selenium (Filtered)	mg/L	0.0001	-	-	-	-	0.00016	-	0.00015	0.00014	-	-	-	-	-	-	-	-	0.00011	<0.0001	
Silicon (Filtered)	mg/L	0.05	-	-	-	-	0.434	-	1.2	1.64	-	-	-	-	-	-	-	-	3.39	4	
Silver (Filtered)	mg/L	0.00001	-	-	-	-	<0.00001	-	<0.00001	<0.00001	-	-	-	-	-	-	-	-	<0.00001	<0.00001	
Sodium (Filtered)	mg/L	0.05	-	-	-	-	12.1	-	14.1	17.8	-	-	-	-	-	-	-	-	13.3	15	
Strontium (Filtered)	mg/L	0.0001	-	-	-	-	0.303	-	0.246	0.243	-	-	-	-	-	-	-	-	0.373	0.35	
Thallium (Filtered)	mg/L	0.00001	-	-	-	-	<0.00005	-	<0.00005	<0.00005	-	-	-	-	-	-	-	-	<0.00001	<0.00001	
Tin (Filtered)	mg/L	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	
Uranium (Filtered)	mg/L	0.00001	-	-	-	-	0.000469	-	0.000394	0.00039	-	-	-	-	-	-	-	-	0.000894	0.000933	
Vanadium (Filtered)	mg/L	0.0001	-	-	-	-	0.00013	-	0.00025	0.00024	-	-	-	-	-	-	-	-	0.00013	0.00015	
Zinc (Filtered)	mg/L	0.001	-	-	-	-	<0.001	-	<0.001	<0.001	-	-	-	-	-	-	-	-	<0.001	<0.001	
<b>Organic / Inorganic Carbon</b>																					
Dissolved Organic Carbon (Filtered)	mg/L	1	-	-	-	-	5.1	-	5.4	5.8	-	-	-	-	-	-	-	-	4.7	5.1	

Obed Mountain Mine  
September 2014 Water Quality Data

Location	ATR-FF-1	ATR-FF-2	ATR-FF-3	ATR-FF-4	ATR-FF-5		ATR-FF-6	ATR-FF-7	ATR-NF-1	ATR-NF-2		ATR-NF-3	ATR-NF-4	ATR-NF-5	ATR-PLC					
Date	25-Sep-14	25-Sep-14	25-Sep-14	25-Sep-14	23-Sep-14	25-Sep-14	22-Sep-14	22-Sep-14	24-Sep-14	24-Sep-14	Normal	Field_D	Normal	Normal	Normal	05-Sep-14	11-Sep-14	18-Sep-14	22-Sep-14	29-Sep-14
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal

Parameter	Unit	MDL																		
TOC	mg/L	1	-	-	-	-	4.7	-	5.3	5.9	-	-	-	-	-	-	-	-	4.6	5.2
<b>Physical Tests</b>																				
Colour	Colour unit	2	-	-	-	-	<2	-	16.8	17.9	-	-	-	-	-	-	-	-	29.5	16.4
Total Dissolved Solids (Filtered)	mg/L	10	-	-	-	-	177	-	166	171	-	-	-	-	-	-	-	-	225	224
Total Suspended Solids	mg/L	3	50,200	8590	24,900	3660	<3	9700	8.8	7.7	28,900	31,100	18,000 - 55,800	5440	8640	11,400	-	-	-	<3
Turbidity	NTU	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Polycyclic Aromatic Hydrocarbons</b>																				
Benzo[b+]fluoranthene	µg/L	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.01
C4 Benzantracenes/Chrysenes	ug/L	0.04	-	-	-	-	<0.04	-	<0.04	<0.04	-	-	-	-	-	-	-	<0.04	<0.04	<0.04
C4 Dibenzothiophenes	ug/L	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
C4 Naphthalenes	ug/L	0.04	-	-	-	-	<0.04	-	<0.04	<0.04	-	-	-	-	-	-	-	<0.04	<0.04	<0.04
C4 Phenanthrenes/Anthracenes	ug/L	0.04	-	-	-	-	<0.04	-	<0.04	<0.04	-	-	-	-	-	-	-	<0.04	<0.04	<0.04
Biphenyl	µg/L	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.01
1-Methylnaphthalene	µg/L	0.02	-	-	-	-	<0.02	-	<0.02	<0.02	-	-	-	-	-	-	-	<0.02	<0.02	<0.02
2-methylnaphthalene	µg/L	0.02	-	-	-	-	<0.02	-	<0.02	<0.02	-	-	-	-	-	-	-	<0.02	<0.02	<0.02
Acenaphthene	µg/L	0.02	-	-	-	-	<0.02	-	<0.02	<0.02	-	-	-	-	-	-	-	<0.02	<0.02	<0.02
Acenaphthylene	µg/L	0.02	-	-	-	-	<0.02	-	<0.02	<0.02	-	-	-	-	-	-	-	<0.02	<0.02	<0.02
Anthracene	µg/L	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.01
Benz(a)anthracene	µg/L	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.01
Benzo(a)pyrene	µg/L	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.01
Acridine	µg/L	0.02	-	-	-	-	<0.02	-	<0.02	<0.02	-	-	-	-	-	-	-	<0.02	<0.02	<0.02
Benzo(e)pyrene	µg/L	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.01
Benzo(g,h,i)perylene	µg/L	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	µg/L	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.015
C1 Acenaphthenes	ug/L	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
C1 Benzofluoranthenes/Benzopyrenes	ug/L	0.04	-	-	-	-	<0.04	-	<0.04	<0.04	-	-	-	-	-	-	-	<0.04	<0.04	<0.04
Chrysene	µg/L	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
C1 Dibenzothiophenes	ug/L	0.04	-	-	-	-	<0.04	-	<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	<0.04	<0.04
C1 Fluorenes	ug/L	0.04	-	-	-	-	<0.04	-	<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	<0.04	<0.04
Dibenz(a,h)anthracene	µg/L	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.01
Dibenzothiophene	µg/L	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.01
Fluoranthene	µg/L	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.01
Fluorene	µg/L	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.01
Indeno(1,2,3-c,d)pyrene	µg/L	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.01
Naphthalene	µg/L	0.05	-	-	-	-	<0.05	-	<0.05	<0.05	-	-	-	-	-	-	-	<0.05	<0.05	<0.05
Perylene	µg/L	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.01
Phenanthrene	µg/L	0.02	-	-	-	-	<0.02	-	<0.02	<0.02	-	-	-	-	-	-	-	<0.02	<0.02	<0.02
Pyrene	µg/L	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.01
Quinoline	µg/L	0.02	-	-	-	-	<0.02	-	<0.02	<0.02	-	-	-	-	-	-	-	<0.02	<0.02	<0.02
Retene	ug/L	0.01	-	-	-	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-	-	<0.01	<0.01	<0.01
C2 Benzofluoranthenes/Benzopyrenes	ug/L	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
C2 Dibenzothiophenes	ug/L	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
C2 Naphthalenes	ug/L	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
C2 Fluorenes	ug/L	0.04	-	-	-	-	<0.04	-	<0.04	<0.04	-	-	-	-	-	-	-	<0.04	<0.04	<0.04
C2 subd B(a)Anthracenes/Chrysenes	ug/L	0.04	-	-	-	-	<0.04	-	<0.04	<0.04	-	-	-	-	-	-	-	<0.04	<0.04	<0.04
C3 Benzantracenes/Chrysenes	ug/L	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
C3 Fluoranthenes/Pyrenes	ug/L	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
C3 Naphthalenes	ug/L	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



Obed Mountain Mine  
September 2014 Water Quality Data

Location	ATR-FF-1	ATR-FF-2	ATR-FF-3	ATR-FF-4	ATR-FF-5		ATR-FF-6	ATR-FF-7	ATR-NF-1	ATR-NF-2		ATR-NF-3	ATR-NF-4	ATR-NF-5	ATR-PLC				
Date	25-Sep-14	25-Sep-14	25-Sep-14	25-Sep-14	23-Sep-14	25-Sep-14	22-Sep-14	22-Sep-14	24-Sep-14	24-Sep-14	24-Sep-14	24-Sep-14	24-Sep-14	24-Sep-14	05-Sep-14	11-Sep-14	18-Sep-14	22-Sep-14	29-Sep-14
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal

Parameter	Unit	MDL																				
<b>Total Metals</b>																						
Aluminium	mg/L	0.003	-	-	-	-	0.0489	-	0.0781	0.0709	-	-	-	-	-	-	-	0.0526	0.0181	0.0291	0.033	0.0982
Antimony	mg/L	0.0001	-	-	-	-	<0.0001	-	<0.0001	<0.0001	-	-	-	-	-	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Arsenic	mg/L	0.0001	-	-	-	-	0.00041	-	0.00055	0.00056	-	-	-	-	-	-	-	0.00037	0.00033	0.00031	0.00036	0.00034
Barium	mg/L	0.00005	-	-	-	-	0.0636	-	0.0534	0.0545	-	-	-	-	-	-	-	0.0765	0.077	0.0769	0.0732	0.0699
Beryllium	mg/L	0.0001	-	-	-	-	<0.0001	-	<0.0001	<0.0001	-	-	-	-	-	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Bismuth	mg/L	0.00005	-	-	-	-	<0.00005	-	<0.00005	<0.00005	-	-	-	-	-	-	-	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Boron	mg/L	0.01	-	-	-	-	0.025	-	0.025	0.027	-	-	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
Cadmium	mg/L	0.00001	-	-	-	-	0.000015	-	0.00002	0.000015	-	-	-	-	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Calcium	mg/L	0.02	-	-	-	-	36.4	-	35.2	35	-	-	-	-	-	-	-	59.4	62.3	55.4	61.2	60.7
Chromium (III+VI)	mg/L	0.0001	-	-	-	-	<0.0001	-	0.00018	0.00016	-	-	-	-	-	-	-	0.00014	<0.0001	<0.0001	<0.0001	0.00018
Cobalt	mg/L	0.0001	-	-	-	-	0.00013	-	0.00018	0.00018	-	-	-	-	-	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Copper	mg/L	0.0001	-	-	-	-	0.00041	-	0.00056	0.00067	-	-	-	-	-	-	-	0.00027	0.00016	0.00026	0.00031	0.00044
Iron	mg/L	0.01	-	-	-	-	0.084	-	0.312	0.299	-	-	-	-	-	-	-	0.122	0.125	0.097	0.125	0.228
Lead	mg/L	0.00005	-	-	-	-	0.000451	-	0.000142	0.000134	-	-	-	-	-	-	-	0.000075	0.000057	<0.00005	<0.00005	0.000097
Lithium	mg/L	0.005	-	-	-	-	0.0066	-	0.0062	0.0066	-	-	-	-	-	-	-	0.0053	0.0066	0.0057	0.0062	0.0062
Magnesium	mg/L	0.005	-	-	-	-	11.3	-	9.84	10	-	-	-	-	-	-	-	15.9	16.7	14.4	15.4	14.8
Manganese	mg/L	0.00005	-	-	-	-	0.0137	-	0.0241	0.0434	-	-	-	-	-	-	-	0.00936	0.0124	0.00698	0.00728	0.0096
Mercury	mg/L	0.0000005	-	-	-	-	0.00000123	-	9.3E-7	8.0E-7	-	-	-	-	-	-	-	-	-	-	<5.0E-7	6.4E-7
Molybdenum	mg/L	0.00005	-	-	-	-	0.000794	-	0.000917	0.000821	-	-	-	-	-	-	-	0.000779	0.000659	0.000626	0.000707	0.00067
Nickel	mg/L	0.0001	-	-	-	-	0.00083	-	0.00093	0.00108	-	-	-	-	-	-	-	0.00036	0.00027	0.0003	0.00041	0.00045
Phosphorus	mg/L	0.3	-	-	-	-	<0.3	-	<0.3	<0.3	-	-	-	-	-	-	-	<0.3	<0.3	<0.3	<0.3	<0.3
Potassium	mg/L	0.05	-	-	-	-	1.33	-	1.32	1.28	-	-	-	-	-	-	-	0.854	0.922	0.861	0.893	0.9
Selenium	mg/L	0.0001	-	-	-	-	0.00013	-	0.00016	0.00017	-	-	-	-	-	-	-	0.00011	0.0001	0.00015	0.0001	0.00012
Silicon	mg/L	0.05	-	-	-	-	0.497	-	1.22	1.6	-	-	-	-	-	-	-	3.29	4.22	3.44	3.55	3.39
Silver	mg/L	0.00001	-	-	-	-	<0.00001	-	<0.00001	<0.00001	-	-	-	-	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Sodium	mg/L	0.05	-	-	-	-	11	-	14.5	18.3	-	-	-	-	-	-	-	13.3	14.8	12.2	14.1	13
Strontium	mg/L	0.0001	-	-	-	-	0.29	-	0.26	0.247	-	-	-	-	-	-	-	0.386	0.358	0.336	0.349	0.358
Thallium	mg/L	0.00001	-	-	-	-	<0.00001	-	<0.00001	<0.00001	-	-	-	-	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Tin	mg/L	0.0001	-	-	-	-	<0.0001	-	<0.0001	<0.0001	-	-	-	-	-	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Titanium	mg/L	0.0003	-	-	-	-	0.00095	-	0.00144	0.0017	-	-	-	-	-	-	-	0.00057	0.00045	<0.0003	0.00051	0.00092
Uranium	mg/L	0.00001	-	-	-	-	0.000505	-	0.000461	0.000455	-	-	-	-	-	-	-	0.00095	0.000982	0.000769	0.000783	0.000724
Vanadium	mg/L	0.0001	-	-	-	-	0.00038	-	0.00067	0.00065	-	-	-	-	-	-	-	0.00038	0.0002	0.00017	0.00035	0.00035
Zinc	mg/L	0.003	-	-	-	-	<0.003	-	<0.003	<0.003	-	-	-	-	-	-	-	<0.003	<0.003	<0.003	<0.003	<0.003

Obed Mountain Mine  
September 2014 Water Quality Data

Location	ATR-REF-1	ATR-REF-2	ATR-REF-3	ATR-REF-4	ATR-REF-5	ATR-US									PLC-1	PLC-2	PLC-3			
Date	23-Sep-14	23-Sep-14	23-Sep-14	23-Sep-14	23-Sep-14	05-Sep-14	08-Sep-14		11-Sep-14	18-Sep-14	22-Sep-14	25-Sep-14	29-Sep-14	11-Sep-14	11-Sep-14	11-Sep-14	05-Sep-14	08-Sep-14	11-Sep-14	
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	

Parameter	Unit	MDL																		
<b>Aggregate Organics</b>																				
Hydrocarbons, Recoverable (I.R.)	mg/L	1	-	-	-	-	-	-	<1	<1	-	-	<1	-	<1	-	-	-	-	<1
BOD	mg/L	2	-	-	-	-	-	-	<2	<2	-	-	<2	-	<2	-	-	-	-	<2
Phenols (4AAP)	µg/L	1	-	-	-	-	-	-	<1	<1	-	-	<1	-	<1	-	-	-	-	<1
<b>Anions and Nutrients</b>																				
Alkalinity (T) as CaCO3	mg/L	2	-	-	-	-	-	-	89.4	89.7	-	-	88.8	-	85.7	-	-	-	-	228
Ammonia	mg/L	0.05	-	-	-	-	-	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	-	-	-	<0.05
Bicarbonate	mg/L	5	-	-	-	-	-	-	109	109	-	-	108	-	105	-	-	-	-	271
Carbonate	mg/L	5	-	-	-	-	-	-	<5	<5	-	-	<5	-	<5	-	-	-	-	<5
Chloride	mg/L	0.5	-	-	-	-	-	-	0.78	0.72	-	-	<0.5	-	<0.5	-	-	-	-	<0.5
Electrical Conductivity (lab)	mS/cm	0.0002	-	-	-	-	-	-	0.275	0.274	-	-	0.272	-	0.259	-	-	-	-	0.442
Hydroxide	mg/L	5	-	-	-	-	-	-	<5	<5	-	-	<5	-	<5	-	-	-	-	<5
Ionic Balance	%		-	-	-	-	-	-	101	104	-	-	99	-	94.4	-	-	-	-	106
Kjeldahl Nitrogen Total	mg/L	0.2	-	-	-	-	-	-	<0.2	<0.2	-	-	<0.2	-	<0.2	-	-	-	-	<0.2
Nitrate (as N)	mg/L	0.05	-	-	-	-	-	-	<0.05	<0.05	-	-	<0.05	-	<0.05	-	-	-	-	<0.05
Nitrite (as N)	mg/L	0.02	-	-	-	-	-	-	<0.02	<0.02	-	-	<0.02	-	<0.02	-	-	-	-	<0.02
Nitrogen (Total Oxidised)	mg/L	0.05	-	-	-	-	-	-	<0.054	<0.054	-	-	<0.054	-	<0.054	-	-	-	-	<0.054
pH (Lab)	pH	0.1	-	-	-	-	-	-	8.14	8.08	-	-	8.2	-	8.18	-	-	-	-	8.39
Phosphorus	mg/L	0.001	-	-	-	-	-	-	0.0094	0.01	-	-	0.0147	-	0.0152	-	-	-	-	0.0029
Phosphorus (Filtered)	mg/L	0.001	-	-	-	-	-	-	0.0052	0.0069	-	-	0.0016	-	0.0047	-	-	-	-	<0.001
Sulphate	mg/L	0.5	-	-	-	-	-	-	45.6	45.7	-	-	45.9	-	42.2	-	-	-	-	13.9
Sulphide	mg/L	0.0015	-	-	-	-	-	-	<0.0015	<0.0015	-	-	0.0019	-	<0.0015	-	-	-	-	<0.0015
Hardness as CaCO3	mg/L		-	-	-	-	-	-	133	136	-	-	128	-	118	-	-	-	-	219
Total Dissolved Solids	mg/L		-	-	-	-	-	-	150	151	-	-	147	-	137	-	-	-	-	243
<b>Dissolved Metals</b>																				
Aluminium (Filtered)	mg/L	0.001	-	-	-	-	-	-	0.0159	0.0099	0.0105	0.0091	0.0719	0.0118	0.0161	0.0177	-	-	-	0.0017
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	-	-	-	-	-	-	0.00011	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00017	-	-	-	0.00032
Barium (Filtered)	mg/L	0.00005	-	-	-	-	-	-	0.039	0.043	0.0439	0.0397	0.0486	0.038	0.0375	0.0349	-	-	-	0.0832
Beryllium (Filtered)	mg/L	0.0001	-	-	-	-	-	-	<0.0001	<0.0005	<0.0005	<0.0001	<0.0001	<0.0005	<0.0001	<0.0005	-	-	-	<0.0001
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 (Filtered)	mg/L	0.01	-	-	-	-	-	-	<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	-	-	-	<0.00001
Calcium (Filtered)	mg/L	0.02	-	-	-	-	-	-	34.8	34.9	36.6	34.4	37.7	34.3	33.1	31.7	-	-	-	68.1
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	-	-	-	-	-	-	0.00019	0.00021	0.00029	<0.0001	0.00021	0.00016	0.00027	0.00019	-	-	-	0.0002
Iron (Filtered)	mg/L	0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	0.011	<0.01	<0.01	<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	-	-	-	<0.00005
Lithium (Filtered)	mg/L	0.003	-	-	-	-	-	-	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	-	-	-	0.0068
Magnesium (Filtered)	mg/L	0.005	-	-	-	-	-	-	9.89	11.1	10.9	10.2	12.3	10.4	9.32	9.37	-	-	-	16.9
Manganese (Filtered)	mg/L	0.00005	-	-	-	-	-	-	0.000264	0.000476	0.000445	0.000149	0.000531	0.000421	0.000204	0.000538	-	-	-	0.000878
Molybdenum (Filtered)	mg/L	0.00005	-	-	-	-	-	-	0.000592	0.00063	0.000647	0.000591	0.000716	0.000588	0.000537	0.000523	-	-	-	0.00083
Nickel (Filtered)	mg/L	0.0001	-	-	-	-	-	-	0.00013	<0.0001	<0.0001	<0.0001	0.00014	0.00015	0.00014	0.00022	-	-	-	0.00027
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	-	-	-	-	-	-	0.5	0.52	0.52	0.461	0.613	0.51	0.525	<0.5	-	-	-	0.954
Selenium (Filtered)	mg/L	0.0001	-	-	-	-	-	-	0.00017	0.00019	0.00022	0.00021	0.00025	0.0002	0.00016	0.00016	-	-	-	<0.0001
Silicon (Filtered)	mg/L	0.05	-	-	-	-	-	-	1.29	1.35	1.34	1.37	1.31	1.14	1.16	1.25	-	-	-	4.02
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	-	-	-	-	-	-	3.16	3	3	2.44	3.24	2.7	2.56	2.3	-	-	-	16.8
Strontium (Filtered)	mg/L	0.0001	-	-	-	-	-	-	0.353	0.343	0.362	0.348	0.416	0.344	0.327	0.304	-	-	-	0.387
Thallium (Filtered)	mg/L	0.00001	-	-	-	-	-	-	<0.00001	<0.00005	<0.00005	<0.00001	<0.00001	<0.00005	<0.00001	<0.00005	-	-	-	<0.00001
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	-	-	-	-	-	-	<0.0003	<0.0003	<0.0003	<0.0003	0.00037	<0.0003	<0.0003	<0.0003	-	-	-	<0.0003
Uranium (Filtered)	mg/L	0.00001	-	-	-	-	-	-	0.000406	0.000387	0.000375	0.000405	0.000463	0.000438	0.00038	0.000399	-	-	-	0.00111
Vanadium (Filtered)	mg/L	0.0001	-	-	-	-	-	-	<0.0001	<0.0001	<0.0001	<0.0001	0.00012	0.0001	<0.0001	<0.0001	-	-	-	0.00016
Zinc (Filtered)	mg/L	0.001	-	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	0.0032	<0.001	0.0011	-	-	-	<0.001
<b>Organic / Inorganic Carbon</b>																				
Dissolved Organic Carbon (Filtered)	mg/L	1	-	-	-	-	-	-	-	1.3	1.4	-	-	1.1	-	1.6	-	-	-	4.1

Obed Mountain Mine  
September 2014 Water Quality Data

Location	ATR-REF-1	ATR-REF-2	ATR-REF-3	ATR-REF-4	ATR-REF-5	ATR-US									PLC-1	PLC-2	PLC-3			
Date	23-Sep-14	23-Sep-14	23-Sep-14	23-Sep-14	23-Sep-14	05-Sep-14	08-Sep-14		11-Sep-14	18-Sep-14	22-Sep-14	25-Sep-14	29-Sep-14	11-Sep-14	11-Sep-14	11-Sep-14	05-Sep-14	08-Sep-14	11-Sep-14	
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	

Parameter	Unit	MDL																				
TOC	mg/L	1	-	-	-	-	-	-	1.2	1.3	-	-	<1	-	1.6	-	-	-	-	4	-	
<b>Physical Tests</b>																						
Colour	Colour unit	2	-	-	-	-	-	-	2.1	<2	-	-	18.5	-	3.3	-	-	-	-	12.7	-	
Total Dissolved Solids (Filtered)	mg/L	10	-	-	-	-	-	-	160	151	-	-	144	-	137	-	-	-	-	262	-	
Total Suspended Solids	mg/L	3	7420	36,600	13,400	19,000	20,900	-	16.1	15.6	-	-	24.2	-	23.7	6990	10,700	24,200	-	<3	-	
Turbidity	NTU	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Polycyclic Aromatic Hydrocarbons</b>																						
Benzo[b+]fluoranthene	µg/L	0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	
C4 Benzantracenes/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	
C4 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	
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	<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	<0.04	
C4 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	
Biphenyl	µg/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	µg/L	0.02	-	-	-	-	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	-	-	<0.02	<0.02	<0.02	
2-methylnaphthalene	µg/L	0.02	-	-	-	-	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	-	-	<0.02	<0.02	<0.02	
Acenaphthene	µg/L	0.02	-	-	-	-	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	-	-	<0.02	<0.02	<0.02	
Acenaphthylene	µg/L	0.02	-	-	-	-	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	-	-	<0.02	<0.02	<0.02	
Anthracene	µg/L	0.01	-	-	-	-	-	-	<0.01	0.01	0.011	<0.01	0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	
Benz(a)anthracene	µg/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	µg/L	0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	
Acridine	µg/L	0.02	-	-	-	-	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	-	-	<0.02	<0.02	<0.02	
Benzo(e)pyrene	µg/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	µg/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	µg/L	0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.015	<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	µg/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 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	
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	
C1 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	
Dibenz(a,h)anthracene	µg/L	0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	
Dibenzothiophene	µg/L	0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	
Fluoranthene	µg/L	0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	
Fluorene	µg/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	µg/L	0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	
Naphthalene	µg/L	0.05	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	<0.05	
Perylene	µg/L	0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	
Phenanthrene	µg/L	0.02	-	-	-	-	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	-	-	<0.02	<0.02	<0.02	
Pyrene	µg/L	0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	
Quinoline	µg/L	0.02	-	-	-	-	-	-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	-	-	<0.02	<0.02	<0.02	
Retene	ug/L	0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	
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 subd B(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	
C3 Benzantracenes/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.									

Obed Mountain Mine  
September 2014 Water Quality Data

Location	ATR-REF-1	ATR-REF-2	ATR-REF-3	ATR-REF-4	ATR-REF-5	ATR-US									PLC-1	PLC-2	PLC-3			
Date	23-Sep-14	23-Sep-14	23-Sep-14	23-Sep-14	23-Sep-14	05-Sep-14	08-Sep-14		11-Sep-14	18-Sep-14	22-Sep-14	25-Sep-14	29-Sep-14	11-Sep-14	11-Sep-14	11-Sep-14	05-Sep-14	08-Sep-14	11-Sep-14	
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Field_D	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	

Parameter	Unit	MDL																					
<b>Total Metals</b>																							
Aluminium	mg/L	0.003	-	-	-	-	-	-	0.25	0.224	0.104	0.13	0.182	0.285	0.547	0.395	-	-	-	0.0069	0.0138	0.0079	
Antimony	mg/L	0.0001	-	-	-	-	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	-	-	-	<0.0001	<0.0001	<0.0001	
Arsenic	mg/L	0.0001	-	-	-	-	-	-	0.00023	0.0002	0.00014	0.00014	0.00026	0.00023	0.0003	0.00022	-	-	-	0.00035	0.00034	0.00033	
Barium	mg/L	0.00005	-	-	-	-	-	-	0.0433	0.0442	0.0434	0.0406	0.0493	0.0432	0.0456	0.0391	-	-	-	0.081	0.0712	0.0761	
Beryllium	mg/L	0.0001	-	-	-	-	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	-	-	-	<0.0001	<0.0001	<0.0001	
Bismuth	mg/L	0.00005	-	-	-	-	-	-	<0.00005	<0.00005	<0.00005	<0.00005	<0.0001	<0.00005	<0.00005	<0.00005	-	-	-	<0.00005	<0.00005	<0.00005	
Boron	mg/L	0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	<0.01	
Cadmium	mg/L	0.00001	-	-	-	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00002	<0.00001	<0.00001	<0.00001	-	-	-	<0.00001	<0.00001	<0.00001	
Calcium	mg/L	0.02	-	-	-	-	-	-	37.9	40.4	38.4	36.4	39.7	38.1	38.6	37.4	-	-	-	68.1	59.8	64.5	
Chromium (III+VI)	mg/L	0.0001	-	-	-	-	-	-	0.00145	0.00034	0.00015	0.00024	0.00025	0.00042	0.00071	0.00056	-	-	-	0.00012	<0.0001	<0.0001	
Cobalt	mg/L	0.0001	-	-	-	-	-	-	0.00022	0.00018	0.00013	0.00013	<0.0002	0.00026	0.00042	0.00028	-	-	-	<0.0001	<0.0001	<0.0001	
Copper	mg/L	0.0001	-	-	-	-	-	-	0.00049	0.00046	0.00044	0.00026	0.00077	0.00059	0.00081	0.00063	-	-	-	0.00026	0.00024	<0.0001	
Iron	mg/L	0.01	-	-	-	-	-	-	0.428	0.371	0.175	0.232	0.175	0.476	0.8	0.579	-	-	-	0.09	0.127	0.132	
Lead	mg/L	0.00005	-	-	-	-	-	-	0.006	0.000295	0.000235	0.000272	0.00014	0.000341	0.000528	0.000371	-	-	-	<0.00005	<0.00005	0.000057	
Lithium	mg/L	0.005	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	-	-	-	0.0063	0.0058	0.007	
Magnesium	mg/L	0.005	-	-	-	-	-	-	11	12	11.4	10.7	13	11.2	10.5	10.2	-	-	-	17.2	15.7	16.4	
Manganese	mg/L	0.00005	-	-	-	-	-	-	0.0133	0.0128	0.0122	0.0095	0.00774	0.0139	0.0195	0.0136	-	-	-	0.0103	0.0122	0.0117	
Mercury	mg/L	0.0000005	-	-	-	-	-	-	-	-	-	-	-	9.1E-7	-	9.7E-7	-	-	-	-	-	-	
Molybdenum	mg/L	0.00005	-	-	-	-	-	-	0.000757	0.000692	0.000471	0.000568	0.00084	0.000592	0.000534	0.000515	-	-	-	0.000893	0.000638	0.000695	
Nickel	mg/L	0.0001	-	-	-	-	-	-	0.00054	0.00053	0.00033	0.00036	0.00097	0.00064	0.00097	0.00074	-	-	-	0.00029	0.00027	0.00027	
Phosphorus	mg/L	0.3	-	-	-	-	-	-	<0.3	<0.3	<0.3	<0.3	<0.6	<0.3	<0.3	<0.3	-	-	-	<0.3	<0.3	<0.3	
Potassium	mg/L	0.05	-	-	-	-	-	-	0.609	0.593	0.534	0.511	0.69	0.636	0.747	0.633	-	-	-	0.907	0.844	0.924	
Selenium	mg/L	0.0001	-	-	-	-	-	-	0.00023	0.0002	0.00021	0.00021	0.00024	0.00019	0.00018	0.00017	-	-	-	<0.0001	<0.0001	<0.0001	
Silicon	mg/L	0.05	-	-	-	-	-	-	1.5	1.63	1.43	1.31	1.55	1.45	2.21	1.57	-	-	-	3.95	3.82	4.21	
Silver	mg/L	0.00001	-	-	-	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00002	<0.00001	<0.00001	<0.00001	-	-	-	0.000014	<0.00001	<0.00001	
Sodium	mg/L	0.05	-	-	-	-	-	-	3.31	3.3	3.2	2.52	3.43	2.78	2.76	2.73	-	-	-	17.3	13.7	15.6	
Strontium	mg/L	0.0001	-	-	-	-	-	-	0.375	0.393	0.375	0.374	0.42	0.37	0.348	0.335	-	-	-	0.381	0.325	0.379	
Thallium	mg/L	0.00001	-	-	-	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00002	<0.00001	<0.00001	<0.00001	-	-	-	<0.00001	<0.00001	<0.00001	
Tin	mg/L	0.0001	-	-	-	-	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	0.00012	<0.0001	<0.0001	-	-	-	<0.0001	<0.0001	<0.0001	
Titanium	mg/L	0.0003	-	-	-	-	-	-	0.00146	0.00152	0.0014	0.00103	0.00157	0.00223	0.00509	0.00286	-	-	-	<0.0003	0.00039	<0.0003	
Uranium	mg/L	0.00001	-	-	-	-	-	-	0.00046	0.000482	0.000447	0.000449	0.000514	0.000415	0.000422	0.000397	-	-	-	0.00112	0.00101	0.00104	
Vanadium	mg/L	0.0001	-	-	-	-	-	-	0.00057	0.0005	0.00023	0.00033	0.00077	0.00059	0.00099	0.00062	-	-	-	0.0004	0.00017	0.00018	
Zinc	mg/L	0.003	-	-	-	-	-	-	<0.003	<0.003	<0.003	<0.003	0.0131	<0.003	0.0034	0.0031	-	-	-	<0.003	<0.003	<0.003	

Obed Mountain Mine  
September 2014 Water Quality Data

Location	PLC-DS				PLC-US								PLC-US-1	PLC-US-2	PLC-US-3	PLC-US-4	PLC-US-5
Date	18-Sep-14	22-Sep-14	25-Sep-14	29-Sep-14	05-Sep-14	08-Sep-14	11-Sep-14	18-Sep-14	22-Sep-14	25-Sep-14	29-Sep-14	11-Sep-14	11-Sep-14	11-Sep-14	11-Sep-14	11-Sep-14	
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	

Parameter	Unit	MDL															
<b>Aggregate Organics</b>																	
Hydrocarbons, Recoverable (I.R.)	mg/L	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	-	<1	-
<b>Anions and Nutrients</b>																	
Alkalinity (T) as CaCO3	mg/L	2	-	232	-	224	-	224	-	-	223	-	215	-	-	-	-
Ammonia	mg/L	0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Bicarbonate	mg/L	5	-	271	-	258	-	273	-	-	272	-	254	-	-	-	-
Carbonate	mg/L	5	-	5.9	-	7.6	-	<5	-	-	<5	-	<5	-	-	-	-
Chloride	mg/L	0.5	-	<0.5	-	<0.5	-	<0.5	-	-	<0.5	-	2.52	-	-	-	-
Electrical Conductivity (lab)	mS/cm	0.0002	-	0.448	-	0.437	-	0.408	-	-	0.408	-	0.392	-	-	-	-
Hydroxide	mg/L	5	-	<5	-	<5	-	<5	-	-	<5	-	<5	-	-	-	-
Ionic Balance	%		-	102	-	95.8	-	105	-	-	97.6	-	98.7	-	-	-	-
Kjeldahl Nitrogen Total	mg/L	0.2	-	<0.2	-	<0.2	-	<0.2	-	-	<0.2	-	<0.2	-	-	-	-
Nitrate (as N)	mg/L	0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-	<0.05	-
Nitrite (as N)	mg/L	0.02	-	<0.02	-	<0.02	-	<0.02	-	<0.02	-	<0.02	-	<0.02	-	<0.02	-
Nitrogen (Total Oxidised)	mg/L	0.05	-	<0.054	-	<0.054	-	<0.054	-	<0.054	-	<0.054	-	<0.054	-	<0.054	-
pH (Lab)	pH	8.1	-	8.44	-	8.53	-	8.27	-	-	8.29	-	8.44	-	-	-	-
Phosphorus	mg/L	0.001	-	0.002	-	0.0034	-	0.0074	-	-	0.0053	-	0.0059	-	-	-	-
Phosphorus (Filtered)	mg/L	0.001	-	0.0021	-	0.0041	-	0.0084	-	-	0.0028	-	0.0048	-	-	-	-
Sulphate	mg/L	0.5	-	15.7	-	13.7	-	2.64	-	-	2.18	-	2.37	-	-	-	-
Sulphide	mg/L	0.0015	-	<0.0015	-	<0.0015	-	<0.0015	-	-	<0.0015	-	<0.0015	-	-	-	-
Hardness as CaCO3	mg/L		-	218	-	200	-	226	-	-	209	-	201	-	-	-	-
Total Dissolved Solids	mg/L		-	248	-	233	-	223	-	-	215	-	211	-	-	-	-
<b>Dissolved Metals</b>																	
Aluminium (Filtered)	mg/L	0.001	0.0014	0.0037	0.0011	0.0021	0.0026	0.0025	0.0019	0.0027	0.0022	0.0021	0.0029	-	-	-	-
Antimony (Filtered)	mg/L	0.0001	<0.0001	<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	0.00035	0.00032	0.00029	0.0003	0.00047	0.00041	0.00036	0.00038	0.00039	0.00039	0.00039	-	-	-	-
Barium (Filtered)	mg/L	0.00005	0.0786	0.0737	0.0801	0.0727	0.0774	0.0734	0.0687	0.0704	0.0667	0.0694	0.0648	-	-	-	-
Beryllium (Filtered)	mg/L	0.0001	<0.0001	<0.0005	<0.0001	<0.0005	<0.0001	<0.0005	<0.0001	<0.0001	<0.0005	<0.0001	<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	<0.00005	<0.00005	-	-	-	-
Boron (Filtered)	mg/L	0.01	<0.01	<0.01	<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	<0.00001	<0.00001	<0.00001	-	-	-	-
Calcium (Filtered)	mg/L	0.02	58.8	61.4	64.4	57.6	68.3	64.1	64.6	59.4	59.1	65.1	58.8	-	-	-	-
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	<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	<0.0001	<0.0001	-	-	-	-
Copper (Filtered)	mg/L	0.0001	0.00026	0.00021	0.00029	0.00025	0.00023	0.00026	0.00013	0.00021	0.0002	0.00021	0.00026	-	-	-	-
Iron (Filtered)	mg/L	0.01	0.012	0.011	<0.01	0.018	0.013	0.033	0.026	0.037	0.037	0.031	0.05	-	-	-	-
Lead (Filtered)	mg/L	0.00005	<0.00005	<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	0.005	0.0055	0.0065	0.0059	0.0035	0.0035	<0.003	<0.003	<0.003	0.0032	<0.003	-	-	-	-
Magnesium (Filtered)	mg/L	0.005	15.7	15.8	14.7	13.7	15.8	16	14.7	14.6	14.8	13.9	13.2	-	-	-	-
Manganese (Filtered)	mg/L	0.00005	0.00041	0.0016	0.000272	0.00028	0.00198	0.000607	0.00154	0.000638	0.00684	0.000449	0.000508	-	-	-	-
Molybdenum (Filtered)	mg/L	0.00005	0.000667	0.00069	0.000752	0.00068	0.00062	0.000539	0.000459	0.000444	0.000439	0.000498	0.000441	-	-	-	-
Nickel (Filtered)	mg/L	0.0001	0.00027	0.00033	0.00036	0.00036	0.00033	0.00026	0.00029	0.00039	0.00039	0.00039	0.00044	-	-	-	-
Phosphorus (Filtered)	mg/L	0.3	<0.3	<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	0.887	0.87	0.958	0.89	0.777	0.9	0.748	0.763	0.74	0.836	0.83	-	-	-	-
Selenium (Filtered)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	-	-	-
Silicon (Filtered)	mg/L	0.05	3.56	3.84	4.08	4.32	4.6	4.91	4.51	3.92	4.32	4.45	4.67	-	-	-	-
Silver (Filtered)	mg/L	0.00001	<0.00001	<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	13.6	15.2	14.1	12.5	5.68	5.4	4.74	4.45	4.8	4.64	4.3	-	-	-	-
Strontium (Filtered)	mg/L	0.0001	0.332	0.342	0.35	0.316	0.331	0.293	0.29	0.277	0.264	0.294	0.253	-	-	-	-
Thallium (Filtered)	mg/L	0.00001	<0.00001	<0.00005	<0.00001	<0.00005	<0.00001	<0.00005	<0.00001	<0.00001	<0.00005	<0.00001	<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	<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	<0.0003	<0.0003	<0.0003	-	-	-	-
Uranium (Filtered)	mg/L	0.00001	0.000854	0.000967	0.000906	0.000854	0.000826	0.000672	0.000618	0.00056	0.000616	0.000586	0.000534	-	-	-	-
Vanadium (Filtered)	mg/L	0.0001	0.00018	0.00017	0.00014	0.00015	0.00013	0.00014	0.00013	0.00011	0.00012	0.00011	0.00013	-	-	-	-
Zinc (Filtered)	mg/L	0.001	<0.001	0.0046	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013	<0.001	<0.001	-	-	-	-
<b>Organic / Inorganic Carbon</b>																	
Dissolved Organic Carbon (Filtered)	mg/L	1	-	5.6	-	6.5	-	5.7	-	-	7.1	-	8.1	-	-	-	-



Obed Mountain Mine  
September 2014 Water Quality Data

Location	PLC-DS				PLC-US								PLC-US-1	PLC-US-2	PLC-US-3	PLC-US-4	PLC-US-5
Date	18-Sep-14	22-Sep-14	25-Sep-14	29-Sep-14	05-Sep-14	08-Sep-14	11-Sep-14	18-Sep-14	22-Sep-14	25-Sep-14	29-Sep-14	11-Sep-14	11-Sep-14	11-Sep-14	11-Sep-14	11-Sep-14	
Sample Type	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal	

Parameter	Unit	MDL															
<b>Total Metals</b>																	
Aluminium	mg/L	0.003	0.0076	0.0103	0.0123	0.0081	0.01	0.03	0.01	0.0072	0.0076	0.0077	0.0087	-	-	-	-
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	<0.0001	-	-	-	-
Arsenic	mg/L	0.0001	0.00034	0.00039	0.00039	0.00034	0.00062	0.00055	0.00052	0.00051	0.00055	0.00059	0.00052	-	-	-	-
Barium	mg/L	0.00005	0.081	0.0789	0.0841	0.0741	0.0778	0.0703	0.0677	0.0721	0.0672	0.0723	0.0666	-	-	-	-
Beryllium	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	-	-	-
Bismuth	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	-	-	-	-
Boron	mg/L	0.01	<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	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	-	-	-
Calcium	mg/L	0.02	56.6	64.2	61.9	57.2	70.9	64.6	62.6	58.8	59.9	63.4	57.8	-	-	-	-
Chromium (III+VI)	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	-	-	-
Cobalt	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	-	-	-
Copper	mg/L	0.0001	0.00023	0.00028	0.00028	0.00024	0.00025	0.00023	<0.0001	0.00021	0.00024	0.00024	0.0002	-	-	-	-
Iron	mg/L	0.01	0.114	0.133	0.125	0.131	0.415	0.39	0.398	0.369	0.374	0.388	0.329	-	-	-	-
Lead	mg/L	0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00006	<0.00005	<0.00005	<0.00005	<0.00005	-	-	-	-
Lithium	mg/L	0.005	0.0058	0.0063	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	-
Magnesium	mg/L	0.005	15.2	16.7	15.7	14.6	16.8	15.5	14.8	13.9	14.8	14.5	13.9	-	-	-	-
Manganese	mg/L	0.00005	0.00826	0.0092	0.0101	0.00958	0.0279	0.0366	0.0361	0.0249	0.0254	0.0243	0.0252	-	-	-	-
Mercury	mg/L	0.0000005	-	<5.0E-7	-	5.5E-7	-	-	-	-	<5.0E-7	-	5.6E-7	-	-	-	-
Molybdenum	mg/L	0.00005	0.000618	0.000756	0.000738	0.000561	0.000647	0.000485	0.000431	0.000461	0.000479	0.000515	0.000384	-	-	-	-
Nickel	mg/L	0.0001	0.00028	0.00034	0.00039	0.00037	0.00039	0.00035	0.00032	0.00039	0.0004	0.0004	0.00041	-	-	-	-
Phosphorus	mg/L	0.3	<0.3	<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	0.898	0.94	1.05	0.911	0.751	0.868	0.79	0.797	0.784	0.857	0.843	-	-	-	-
Selenium	mg/L	0.0001	0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	-	-	-
Silicon	mg/L	0.05	4.16	3.98	4.5	4.48	4.47	4.46	4.5	4.36	4.26	5.17	5.12	-	-	-	-
Silver	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	-	-	-
Sodium	mg/L	0.05	14.1	16.2	15.3	13.1	6.02	5.17	4.75	4.79	4.82	5.1	4.35	-	-	-	-
Strontium	mg/L	0.0001	0.324	0.355	0.353	0.3	0.323	0.297	0.285	0.26	0.28	0.286	0.243	-	-	-	-
Thallium	mg/L	0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	-	-	-
Tin	mg/L	0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00011	<0.0001	<0.0001	-	-	-	-
Titanium	mg/L	0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00092	<0.0003	<0.0003	<0.0003	<0.0003	0.00035	-	-	-	-
Uranium	mg/L	0.00001	0.000812	0.000883	0.000973	0.000761	0.00082	0.000746	0.000665	0.000541	0.000555	0.000644	0.000488	-	-	-	-
Vanadium	mg/L	0.0001	0.00017	0.00035	0.00049	0.00014	0.00053	0.00024	0.00018	0.0002	0.00034	0.00044	0.00015	-	-	-	-
Zinc	mg/L	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	-	-	-	-