

Obed Mountain Mine
Water Quality
September 2014

	Organics			Anions and Nutrients																							
	Hydrocarbons, Recoverable (I.R.)	BOD	Phenols (4AAP)	Alkalinity (T) as CaCO3	Ammonia	Bicarbonate	Carbonate	Chloride	Electrical Conductivity (lab)	Hydroxide	Ionic Balance	Kjeldahl Nitrogen Total	Nitrate (as N)	Nitrite (as N)	Nitrogen (Total Oxidised)	pH (Lab)	Phosphorus	Phosphorus (Filtered)	Sulphate	Sulphide	Hardness as CaCO3	Total Dissolved Solids	Aluminium (Filtered)	Antimony (Filtered)	Arsenic (Filtered)	Barium (Filtered)	Beryllium (Filtered)
MDL	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mS/cm	mg/L	%	mg/L	mg/L	mg/L	mg/L	pH	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	1	2	1	2	0.05	5	5	0.5	0.0002	5		0.2	0.05	0.02	0.05	0.1	0.001	0.001	0.5	0.0015			0.001	0.0001	0.0001	0.00005	0.0001

Location	Date	Sample Type	<1	<2	<1	<2	<0.05	<5	<5	<0.5	0.00058	<5	-	<0.2	<0.05	<0.02	<0.054	5.82	<0.001	<0.001	<0.5	<0.0015	<1	1.2	<0.001	<0.0001	<0.0001	<0.00005	<0.0005
Blanks	22-Sep-14	Trip Blank	<1	<2	<1	<2	<0.05	<5	<5	<0.5	0.00058	<5	-	<0.2	<0.05	<0.02	<0.054	5.82	<0.001	<0.001	<0.5	<0.0015	<1	1.2	<0.001	<0.0001	<0.0001	<0.00005	<0.0005
	29-Sep-14	Trip Blank	<1	<2	<1	<2	<0.05	<5	<5	<0.5	0.00069	<5	-	<0.2	<0.05	<0.02	<0.054	5.1	<0.001	<0.001	<0.5	<0.0015	<1	<1	<0.001	<0.0001	<0.0001	<0.00005	<0.0005
APC	05-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0024	<0.0001	0.00043	0.105	<0.0001
	08-Sep-14	Normal	<1	<2	<1	327	<0.05	385	6.7	1.35	0.886	<5	101	<0.2	<0.05	<0.02	<0.054	8.43	0.0202	<0.001	157	<0.0015	278	548	0.003	<0.0001	0.00043	0.0997	<0.0005
	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0014	<0.0001	0.00041	0.106	<0.0001
	18-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0032	<0.0001	0.00036	0.0995	<0.0001
	22-Sep-14	Normal	<1	<2	<1	305	<0.05	363	<5	1.46	0.797	<5	103	<0.2	0.112	<0.02	0.112	8.38	0.0038	<0.001	127	<0.0015	251	486	0.0037	<0.0001	0.00039	0.11	<0.0005
	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0033	<0.0001	0.0004	0.108	<0.0001
	29-Sep-14	Normal	<1	<2	<1	303	<0.05	353	8.1	1.51	0.784	<5	96.3	<0.2	0.12	<0.02	0.12	8.49	0.0052	0.0021	121	<0.0015	244	467	0.005	<0.0001	0.00035	0.0963	<0.0005
APC-1	12-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-2	12-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-3	19-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-4	12-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-5	19-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-6	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-7	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-1	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-2	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-3	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-4	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-5	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-AT1	23-Sep-14	Normal	<1	<2	<1	129	<0.05	158	<5	1.58	0.317	<5	103	0.2	<0.05	<0.02	<0.054	8.27	0.0079	0.0031	31	<0.0015	147	172	0.0025	<0.0001	0.00048	0.0656	<0.0005
ATR-CON	09-Sep-14	Normal	<1	<2	<1	95.4	<0.05	116	<5	0.77	0.284	<5	105	<0.2	0.05	<0.02	<0.054	8.1	0.0075	0.0021	44.1	<0.0015	143	156	0.0069	<0.0001	0.0001	0.0435	<0.0005
	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.016	<0.0001	0.00011	0.0387	<0.0001
ATR-D1	05-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0151	<0.0001	0.0001	0.0394	<0.0001
	08-Sep-14	Normal	<1	<2	<1	93.9	<0.05	115	<5	0.92	0.285	<5	105	<0.2	<0.05	<0.02	<0.054	8.11	0.0081	0.0019	46	<0.0015	142	157	0.0093	<0.0001	<0.0001	0.047	<0.0005
	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0248	<0.0001	<0.0001	0.0405	<0.0001
	18-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0459	<0.0001	0.00013	0.0524	<0.0001
	22-Sep-14	Normal	<1	<2	<1	91.3	<0.05	111	<5	<0.5	0.27	<5	102	<0.2	<0.05	<0.02	<0.054	8.19	0.0162	0.0014	43.6	<0.0015	133	148	0.0145	<0.0001	<0.0001	0.0397	<0.0005
25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0196	<0.0001	<0.0001	0.0394	<0.0001	

Obed Mountain Mine
Water Quality
September 2014

Dissolved Metals

	Bismuth (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Calcium (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Lithium (Filtered)	Magnesium (Filtered)	Manganese (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Phosphorus (Filtered)	Potassium (Filtered)	Selenium (Filtered)	Silicon (Filtered)	Silver (Filtered)	Sodium (Filtered)	Strontium (Filtered)	Thallium (Filtered)	Tin (Filtered)
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDL	0.00005	0.01	0.00001	0.02	0.0001	0.0001	0.0001	0.01	0.00005	0.003	0.005	0.00005	0.00005	0.0001	0.3	0.05	0.0001	0.05	0.00001	0.05	0.0001	0.00001	0.0001

Location	Date	Sample Type	Bismuth (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Calcium (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Lithium (Filtered)	Magnesium (Filtered)	Manganese (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Phosphorus (Filtered)	Potassium (Filtered)	Selenium (Filtered)	Silicon (Filtered)	Silver (Filtered)	Sodium (Filtered)	Strontium (Filtered)	Thallium (Filtered)	Tin (Filtered)
Blanks	22-Sep-14	Trip Blank	<0.00005	<0.01	<0.00001	<0.5	<0.0001	<0.0001	<0.0001	<0.01	<0.00005	<0.003	<0.1	<0.00005	<0.00005	<0.0001	<0.3	<0.5	<0.0001	<0.05	<0.00001	1.2	<0.0001	<0.00005	<0.0001
	29-Sep-14	Trip Blank	<0.00005	<0.01	<0.00001	<0.5	<0.0001	<0.0001	<0.0001	<0.01	<0.00005	<0.003	<0.1	<0.00005	<0.00005	<0.0001	<0.3	<0.5	<0.0001	<0.05	<0.00001	<1	<0.0001	<0.00005	<0.0001
APC	05-Sep-14	Normal	<0.00005	0.041	<0.00001	61.2	<0.0001	<0.0001	0.00023	<0.01	<0.00005	0.0362	28.2	0.0503	0.00165	0.00055	<0.3	2.29	0.00016	4.1	<0.00001	87.7	0.868	<0.00001	<0.0001
	08-Sep-14	Normal	<0.00005	0.058	<0.00001	60.3	0.00015	<0.0001	0.00036	<0.01	<0.00005	0.0491	31	0.00516	0.0018	0.00053	<0.3	2.42	0.00023	4.29	<0.00001	99.9	0.862	<0.00005	<0.0001
	11-Sep-14	Normal	<0.00005	0.053	<0.00001	59.8	<0.0001	<0.0001	0.00023	<0.01	<0.00005	0.0415	28.6	0.0011	0.0018	0.00055	<0.3	2.25	0.00053	4.24	<0.00001	90.6	0.86	<0.00001	<0.0001
	18-Sep-14	Normal	<0.00005	0.041	<0.00001	56	<0.0001	<0.0001	0.00039	<0.01	<0.00005	0.0329	27.7	0.00782	0.00165	0.00062	<0.3	2.35	0.00043	3.66	<0.00001	87.9	0.8	<0.00001	<0.0001
	22-Sep-14	Normal	<0.00005	0.042	<0.00001	59.3	<0.0001	<0.0001	0.0003	<0.01	<0.00005	0.0349	25.1	0.0519	0.00181	0.00065	<0.3	2.23	0.00061	3.8	<0.00001	87.6	0.794	<0.00005	<0.0001
	25-Sep-14	Normal	<0.00005	0.051	<0.00001	60.7	<0.0001	<0.0001	0.00034	<0.01	<0.00005	0.0398	25.3	0.0231	0.00188	0.00061	<0.3	2.62	0.00052	4.24	<0.00001	85.9	0.807	<0.00001	<0.0001
	29-Sep-14	Normal	<0.00005	0.043	<0.00001	58.7	<0.0001	<0.0001	0.00047	<0.01	<0.00005	0.0313	23.7	0.0292	0.0019	0.00071	<0.3	2.32	0.00062	4.04	<0.00001	77.5	0.781	<0.00005	<0.0001
APC-1	12-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-2	12-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-3	19-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-4	12-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-5	19-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-6	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-7	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-1	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-2	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-3	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-4	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-5	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-AT1	23-Sep-14	Normal	<0.00005	0.018	0.00001	41	<0.0001	<0.0001	0.00055	<0.01	<0.00005	0.0061	10.9	0.000529	0.000864	0.00058	<0.3	1.25	0.00019	1.26	<0.00001	8.9	0.321	<0.00005	<0.0001
ATR-CON	09-Sep-14	Normal	<0.00005	<0.01	<0.00001	39	<0.0001	<0.0001	0.00017	<0.01	<0.00005	<0.003	11	0.000139	0.000668	<0.0001	<0.3	0.5	0.00018	1.37	<0.00001	3.1	0.358	<0.00005	<0.0001
	25-Sep-14	Normal	<0.00005	<0.01	<0.00001	33.3	<0.0001	<0.0001	0.0002	<0.01	<0.00005	<0.003	9.46	0.000234	0.000538	0.00018	<0.3	0.528	0.00017	1.2	<0.00001	2.77	0.332	<0.00001	<0.0001
ATR-D1	05-Sep-14	Normal	<0.00005	<0.01	<0.00001	35.6	<0.0001	<0.0001	0.00013	<0.01	<0.00005	<0.003	9.93	0.000196	0.00058	0.00011	<0.3	0.485	0.00019	1.31	<0.00001	3.18	0.341	<0.00001	<0.0001
	08-Sep-14	Normal	<0.00005	<0.01	<0.00001	38.2	<0.0001	<0.0001	0.00013	<0.01	<0.00005	<0.003	11.2	0.000212	0.000666	<0.0001	<0.3	0.59	0.00019	1.35	<0.00001	3.8	0.355	<0.00005	<0.0001
	11-Sep-14	Normal	<0.00005	<0.01	<0.00001	34.5	<0.0001	<0.0001	<0.0001	0.01	<0.00005	<0.003	10.5	0.00025	0.000566	<0.0001	<0.3	0.502	0.00019	1.37	<0.00001	3.09	0.35	<0.00001	<0.0001
	18-Sep-14	Normal	<0.00005	<0.01	<0.00001	37.7	<0.0001	<0.0001	0.00022	<0.01	<0.00005	<0.003	12.1	0.000142	0.000729	0.00013	<0.3	0.62	0.00025	1.17	<0.00001	3.49	0.413	<0.00001	<0.0001
	22-Sep-14	Normal	<0.00005	<0.01	<0.00001	36.2	<0.0001	<0.0001	0.00016	<0.01	<0.00005	<0.003	10.3	0.000173	0.000588	0.00018	<0.3	0.53	0.00018	1.11	<0.00001	2.8	0.349	<0.00005	<0.0001
	25-Sep-14	Normal	<0.00005	<0.01	<0.00001	34.5	<0.0001	<0.0001	0.00021	<0.01	<0.00005	<0.003	9.37	0.000262	0.000551	0.00016	<0.3	0.53	0.00017	1.18	<0.00001	2.54	0.334	<0.00001	<0.0001

Obed Mountain Mine
Water Quality
September 2014

				/ Inorganic		Physical Tests																		
Titanium (Filtered)	Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)	Dissolved Organic Carbon (Filtered)	TOC	Colour	Total Dissolved Solids (Filtered)	Total Suspended Solids	Turbidity	Benzo[b+j]fluoranthene	C4 Benzantracenes/Chrysenes	C4 Dibenzothiophenes	C4 Fluoranthenes/Pyrenes	C4 Naphthalenes	C4 Phenanthrenes/Anthracenes	Biphenyl	1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Acridine
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	Colour units	mg/L	mg/L	NTU	µg/L	ug/L	ug/L	ug/L	ug/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MDL	0.0003	0.00001	0.0001	0.001	1	1	2	10	3	0.1	0.01	0.04	0.04	0.04	0.04	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.02

Location	Date	Sample Type	Titanium (Filtered)	Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)	Dissolved Organic Carbon (Filtered)	TOC	Colour	Total Dissolved Solids (Filtered)	Total Suspended Solids	Turbidity	Benzo[b+j]fluoranthene	C4 Benzantracenes/Chrysenes	C4 Dibenzothiophenes	C4 Fluoranthenes/Pyrenes	C4 Naphthalenes	C4 Phenanthrenes/Anthracenes	Biphenyl	1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Acridine
Blanks	22-Sep-14	Trip Blank	<0.0003	<0.00001	<0.0001	0.829	<1	<1	<2	<10	<3	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	29-Sep-14	Trip Blank	<0.0003	<0.00001	<0.0001	<0.001	<1	<1	<2	<10	<3	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
APC	05-Sep-14	Normal	<0.0003	0.00331	0.00018	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	08-Sep-14	Normal	<0.0003	0.00329	0.00028	<0.001	3.7	3.8	5	565	22.6	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	11-Sep-14	Normal	<0.0003	0.00337	0.00023	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	18-Sep-14	Normal	<0.0003	0.00316	0.00022	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	22-Sep-14	Normal	<0.0003	0.00335	0.0002	0.005	3.9	3.7	22.8	466	<3	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	25-Sep-14	Normal	<0.0003	0.00303	0.00018	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	29-Sep-14	Normal	<0.0003	0.00326	0.00019	<0.001	4.8	4.6	13.1	468	<3	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
APC-1	12-Sep-14	Normal	-	-	-	-	-	-	-	28,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-2	12-Sep-14	Normal	-	-	-	-	-	-	-	52,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Field Duplicate	-	-	-	-	-	-	-	-	18,000 - 52,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-3	19-Sep-14	Normal	-	-	-	-	-	-	-	12,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-4	12-Sep-14	Normal	-	-	-	-	-	-	-	54,700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-5	19-Sep-14	Normal	-	-	-	-	-	-	-	21,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-6	11-Sep-14	Normal	-	-	-	-	-	-	-	4640	>4000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-7	11-Sep-14	Normal	-	-	-	-	-	-	-	4090	>4000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-1	20-Sep-14	Normal	-	-	-	-	-	-	-	9980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-2	20-Sep-14	Normal	-	-	-	-	-	-	-	21,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-3	20-Sep-14	Normal	-	-	-	-	-	-	-	7260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-4	20-Sep-14	Normal	-	-	-	-	-	-	-	39,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-5	20-Sep-14	Normal	-	-	-	-	-	-	-	7530	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-AT1	23-Sep-14	Normal	<0.0003	0.000487	0.00022	<0.001	4.7	4.6	<2	177	<3	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
ATR-CON	09-Sep-14	Normal	<0.0003	0.000413	<0.0001	<0.001	1.4	1.4	<2	158	9.1	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	25-Sep-14	Normal	<0.0003	0.000386	<0.0001	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
ATR-D1	05-Sep-14	Normal	<0.0003	0.000401	<0.0001	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	08-Sep-14	Normal	<0.0003	0.0004	<0.0001	<0.001	1.5	1.4	2.3	166	11	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	0.013	<0.01	<0.01	<0.02
	11-Sep-14	Normal	0.00058	0.000402	0.0001	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	18-Sep-14	Normal	<0.0003	0.000459	<0.0001	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	22-Sep-14	Normal	<0.0003	0.000429	<0.0001	0.0065	<1	<1	19.6	125	14.1	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	25-Sep-14	Normal	<0.0003	0.000369	<0.0001	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02

Obed Mountain Mine
Water Quality
September 2014

	C2 Fluorenes	C2 subd B(a)Anthracenes/Chrysenes	C3 Benzantracenes/Chrysenes	C3 Dibenzothiophenes	C3 Fluoranthenes/Pyrenes	C3 Fluorenes	C3 Naphthalenes	C3 Phenanthrenes/Anthracenes	Aluminium	Antimony	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium	Calcium	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Lithium	Magnesium
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MDL	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.003	0.0001	0.0001	0.00005	0.0001	0.00005	0.01	0.00001	0.02	0.0001	0.0001	0.0001	0.01	0.00005	0.005	0.005

Location	Date	Sample Type	C2 Fluorenes	C2 subd B(a)Anthracenes/Chrysenes	C3 Benzantracenes/Chrysenes	C3 Dibenzothiophenes	C3 Fluoranthenes/Pyrenes	C3 Fluorenes	C3 Naphthalenes	C3 Phenanthrenes/Anthracenes	Aluminium	Antimony	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium	Calcium	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Lithium	Magnesium
Blanks	22-Sep-14	Trip Blank	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.003	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.01	<0.00001	<0.02	<0.0001	<0.0001	<0.0001	<0.01	<0.00005	<0.005	<0.005
	29-Sep-14	Trip Blank	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.003	<0.0001	<0.0001	<0.00005	<0.0001	<0.00005	<0.01	<0.00001	<0.02	<0.0001	<0.0001	<0.0001	<0.01	<0.00005	<0.005	<0.005
APC	05-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0206	<0.0001	0.0005	0.105	<0.0001	<0.00005	0.048	<0.00001	64	<0.0001	<0.0001	0.00035	0.156	<0.00005	0.0346	29.7
	08-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.668	0.00013	0.00078	0.104	<0.0001	<0.00005	0.058	0.000015	65.1	0.00111	0.00054	0.00145	1.02	0.00057	0.0455	32.1
	11-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.171	0.0001	0.00052	0.105	<0.0001	<0.00005	0.047	<0.00001	58.9	0.00029	0.00022	0.00049	0.381	0.000199	0.0358	28.3
	18-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0839	<0.0001	0.00047	0.104	<0.0001	<0.00005	0.05	<0.00001	60.3	0.00018	0.00013	0.00048	0.265	0.000082	0.0393	28.4
	22-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.048	<0.0001	0.00047	0.112	<0.0001	<0.00005	0.047	<0.00001	58.9	0.00011	0.00011	0.00043	0.218	<0.00005	0.0347	26.1
	25-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0326	<0.0001	0.00051	0.113	<0.0001	<0.00005	0.045	0.00001	60.4	<0.0001	0.00011	0.0004	0.205	<0.00005	0.0325	26.1
	29-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0515	<0.0001	0.00043	0.105	<0.0001	<0.00005	0.041	<0.00001	59.1	<0.0001	0.00011	0.00041	0.223	<0.00005	0.0343	23.9
APC-1	12-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-2	12-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-3	19-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-4	12-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-5	19-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-6	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-7	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-1	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-2	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-3	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-4	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-5	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-AT1	23-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.055	<0.0001	0.00055	0.0673	<0.0001	<0.00005	0.013	0.000014	37.9	0.00013	<0.0001	0.00046	0.112	0.000087	0.0051	11.3
ATR-CON	09-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.176	<0.0001	0.00017	0.0425	<0.0001	<0.00005	<0.01	<0.00001	41.3	0.00029	0.00015	0.00038	0.267	0.000217	<0.005	11.7
	25-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.413	<0.0001	0.00026	0.0477	<0.0001	<0.00005	<0.01	<0.00001	35.7	0.00054	0.00029	0.00061	0.554	0.000368	<0.005	10.3
ATR-D1	05-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.19	<0.0001	0.00019	0.045	<0.0001	<0.00005	<0.01	<0.00001	37	0.00032	0.00015	0.00038	0.273	0.000212	<0.005	10.9
	08-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0947	<0.0001	0.00013	0.0446	<0.0001	<0.00005	<0.01	<0.00001	38.1	0.00012	<0.0001	0.00034	0.129	0.000165	<0.005	11.5
	11-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.133	<0.0001	0.00017	0.0412	<0.0001	<0.00005	<0.01	<0.00001	35.2	0.00027	0.00012	0.0003	0.212	0.000176	<0.005	10.9
	18-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.112	<0.0001	0.00016	0.052	<0.0001	<0.00005	<0.01	<0.00001	39.4	0.00013	<0.0001	0.00028	0.129	0.000135	<0.005	12
	22-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.278	<0.0001	0.00023	0.0447	<0.0001	<0.00005	<0.01	<0.00001	37.8	0.0004	0.00023	0.00056	0.436	0.000283	<0.005	10.8
	25-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.393	<0.0001	0.00026	0.0472	<0.0001	<0.00005	<0.01	<0.00001	34.3	0.0005	0.0003	0.00063	0.56	0.000396	<0.005	10.2

Obed Mountain Mine
Water Quality
September 2014

Total Metals																	
	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDL	0.00005	5.0E-7	0.00005	0.0001	0.3	0.05	0.0001	0.05	0.00001	0.05	0.0001	0.00001	0.0001	0.0003	0.00001	0.0001	0.003

Location	Date	Sample Type	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
Blanks	22-Sep-14	Trip Blank	0.000154	<5.0E-7	<0.00005	<0.0001	<0.3	<0.05	<0.0001	<0.05	<0.00001	<0.05	<0.0001	<0.00001	<0.0001	<0.0003	<0.00001	<0.0001	<0.003
	29-Sep-14	Trip Blank	<0.00005	<5.0E-7	<0.00005	<0.0001	<0.3	<0.05	<0.0001	<0.05	<0.00001	<0.05	<0.0001	<0.00001	<0.0001	<0.0003	<0.00001	<0.0001	<0.003
APC	05-Sep-14	Normal	0.0816	-	0.00173	0.00061	<0.3	2.07	0.00017	3.94	<0.00001	90.9	0.84	<0.00001	<0.0001	0.00045	0.00337	0.00057	<0.003
	08-Sep-14	Normal	0.0903	-	0.00179	0.00198	<0.3	2.46	0.00024	5.26	<0.00001	99.2	0.94	0.000013	<0.0001	0.0153	0.00382	0.00211	0.0046
	11-Sep-14	Normal	0.0967	-	0.00176	0.00101	<0.3	2.34	0.00045	4.16	<0.00001	88	0.891	<0.00001	<0.0001	0.00598	0.00365	0.00078	<0.003
	18-Sep-14	Normal	0.0804	-	0.00177	0.00084	<0.3	2.46	0.0005	3.95	<0.00001	100	0.852	<0.00001	<0.0001	0.0022	0.00334	0.00056	0.0034
	22-Sep-14	Normal	0.0818	5.1E-7	0.0019	0.0008	<0.3	2.43	0.00057	4.01	<0.00001	89.1	0.817	<0.00001	<0.0001	0.0012	0.00311	0.00053	<0.003
	25-Sep-14	Normal	0.0792	-	0.00194	0.00079	<0.3	2.63	0.00051	4.81	<0.00001	92.1	0.836	<0.00001	<0.0001	0.00089	0.00336	0.00073	<0.003
	29-Sep-14	Normal	0.0862	6.5E-7	0.00161	0.0008	<0.3	2.51	0.00062	4.73	<0.00001	80.8	0.764	<0.00001	<0.0001	0.00149	0.00288	0.00028	<0.003
APC-1	12-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-2	12-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-3	19-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-4	12-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-5	19-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-6	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-7	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-1	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-2	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-3	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-4	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
APC-US-5	20-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-AT1	23-Sep-14	Normal	0.00909	6.7E-7	0.000874	0.00073	<0.3	1.28	0.00018	1.4	<0.00001	8.07	0.301	<0.00001	<0.0001	0.00096	0.000553	0.00044	<0.003
ATR-CON	09-Sep-14	Normal	0.0103	-	0.000642	0.00039	<0.3	0.566	0.00019	1.59	<0.00001	3.25	0.379	<0.00001	<0.0001	0.00258	0.000487	0.00037	<0.003
	25-Sep-14	Normal	0.0132	-	0.000544	0.00067	<0.3	0.74	0.00015	2	<0.00001	2.97	0.342	<0.00001	<0.0001	0.00443	0.000437	0.00082	<0.003
ATR-D1	05-Sep-14	Normal	0.00887	-	0.000615	0.0004	<0.3	0.579	0.00023	1.44	<0.00001	3.45	0.374	<0.00001	<0.0001	0.00118	0.000461	0.00048	<0.003
	08-Sep-14	Normal	0.00814	-	0.000546	0.00026	<0.3	0.59	0.0002	1.46	<0.00001	3.64	0.368	<0.00001	<0.0001	0.00156	0.000451	0.00022	<0.003
	11-Sep-14	Normal	0.00804	-	0.000517	0.00033	<0.3	0.556	0.00021	1.4	<0.00001	3.08	0.357	<0.00001	<0.0001	0.00094	0.000411	0.0005	<0.003
	18-Sep-14	Normal	0.00778	-	0.00059	0.00029	<0.3	0.66	0.00025	1.32	<0.00001	3.71	0.391	<0.00001	<0.0001	0.00114	0.000464	0.0002	<0.003
	22-Sep-14	Normal	0.0122	6.8E-7	0.000562	0.00058	<0.3	0.644	0.00019	1.37	<0.00001	2.97	0.351	<0.00001	<0.0001	0.00217	0.000374	0.00055	<0.003
	25-Sep-14	Normal	0.015	-	0.000508	0.00071	<0.3	0.694	0.00017	1.97	<0.00001	2.67	0.326	<0.00001	<0.0001	0.00332	0.000406	0.00077	<0.003

Obed Mountain Mine
Water Quality
September 2014

	Organics			Anions and Nutrients																							
	Hydrocarbons, Recoverable (I.R.)	BOD	Phenols (4AAP)	Alkalinity (T) as CaCO3	Ammonia	Bicarbonate	Carbonate	Chloride	Electrical Conductivity (lab)	Hydroxide	Ionic Balance	Kjeldahl Nitrogen Total	Nitrate (as N)	Nitrite (as N)	Nitrogen (Total Oxidised)	pH (Lab)	Phosphorus	Phosphorus (Filtered)	Sulphate	Sulphide	Hardness as CaCO3	Total Dissolved Solids	Aluminium (Filtered)	Antimony (Filtered)	Arsenic (Filtered)	Barium (Filtered)	Beryllium (Filtered)
MDL	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mS/cm	mg/L	%	mg/L	mg/L	mg/L	mg/L	pH	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	1	2	1	2	0.05	5	5	0.5	0.0002	5		0.2	0.05	0.02	0.05	0.1	0.001	0.001	0.5	0.0015			0.001	0.0001	0.0001	0.00005	0.0001

Location	Date	Sample Type	<1	<2	<1	86.1	<0.05	105	<5	<0.5	0.255	<5	100	<0.2	<0.05	<0.02	<0.054	8.17	0.0152	0.0024	39.9	0.0016	122	137	0.0192	<0.0001	<0.0001	0.0353	<0.0005					
ATR-D2	29-Sep-14	Normal	<1	<2	<1	86.1	<0.05	105	<5	<0.5	0.255	<5	100	<0.2	<0.05	<0.02	<0.054	8.17	0.0152	0.0024	39.9	0.0016	122	137	0.0192	<0.0001	<0.0001	0.0353	<0.0005					
	05-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.018	<0.0001	0.0001	0.0395	<0.0001				
	08-Sep-14	Normal	<1	<2	<1	93.4	<0.05	114	<5	0.84	0.285	<5	105	<0.2	<0.05	<0.02	<0.054	8.12	0.0075	0.0015	45.8	<0.0015	141	156	0.0075	<0.0001	<0.0001	0.0461	<0.0005					
	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0148	<0.0001	<0.0001	0.04	<0.0001				
	18-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0409	<0.0001	0.00011	0.0504	<0.0001				
	22-Sep-14	Normal	<1	<2	<1	90.3	<0.05	110	<5	<0.5	0.27	<5	98.8	<0.2	<0.05	<0.02	<0.054	8.17	0.0139	<0.001	42.9	<0.0015	126	145	0.0118	<0.0001	<0.0001	0.039	<0.0005					
	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0133	<0.0001	<0.0001	0.038	<0.0001				
29-Sep-14	Normal	<1	<2	<1	87	<0.05	106	<5	<0.5	0.253	<5	95.1	<0.2	<0.05	<0.02	<0.054	8.12	0.0185	0.0028	38.6	0.0015	116	134	0.0228	<0.0001	<0.0001	0.0347	<0.0005						
ATR-FF-1	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
ATR-FF-2	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ATR-FF-3	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
ATR-FF-4	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ATR-FF-5	23-Sep-14	Normal	<1	<2	<1	126	<0.05	154	<5	3.71	0.332	<5	102	<0.2	<0.05	<0.02	<0.054	8.24	0.0077	0.0021	34.3	<0.0015	142	177	0.0044	<0.0001	0.00041	0.0609	<0.0005					
	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ATR-FF-6	22-Sep-14	Normal	<1	<2	1.4	112	<0.05	134	<5	9.55	0.314	<5	100	0.23	<0.05	<0.02	<0.054	8.33	0.0207	0.0089	30.5	<0.0015	123	166	0.0043	<0.0001	0.00041	0.0504	<0.0005					
ATR-FF-7	22-Sep-14	Normal	<1	<2	<1	114	<0.05	137	<5	17	0.343	<5	101	0.27	<0.05	<0.02	<0.054	8.33	0.0228	0.0063	29.2	<0.0015	128	179	0.0035	<0.0001	0.00039	0.0494	<0.0005					
ATR-NF-1	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ATR-NF-2	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-3	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-4	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-5	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-PLC	05-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0034	<0.0001	0.00028	0.0716	<0.0001				
	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0014	<0.0001	0.00034	0.0774	<0.0001				
	18-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0166	<0.0001	0.00027	0.0747	<0.0001				
	22-Sep-14	Normal	<1	<2	<1	221	<0.05	261	<5	<0.5	0.436	<5	106	<0.2	<0.05	<0.02	<0.054	8.4	0.0031	0.0011	18.3	<0.0015	215	242	0.0019	<0.0001	0.0003	0.0749	<0.0005					
	29-Sep-14	Normal	<1	<2	<1	197	<0.05	231	<5	<0.5	0.395	<5	99.3	<0.2	<0.05	<0.02	<0.054	8.47	0.0059	0.0036	19.7	<0.0015	186	215	0.0039	<0.0001	0.00027	0.064	<0.0005					
ATR-REF-1	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ATR-REF-2	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-REF-3	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
Water Quality
September 2014

Dissolved Metals

	Bismuth (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Calcium (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Lithium (Filtered)	Magnesium (Filtered)	Manganese (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Phosphorus (Filtered)	Potassium (Filtered)	Selenium (Filtered)	Silicon (Filtered)	Silver (Filtered)	Sodium (Filtered)	Strontium (Filtered)	Thallium (Filtered)	Tin (Filtered)
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDL	0.00005	0.01	0.00001	0.02	0.0001	0.0001	0.0001	0.01	0.00005	0.003	0.005	0.00005	0.00005	0.0001	0.3	0.05	0.0001	0.05	0.00001	0.05	0.0001	0.00001	0.0001

Location	Date	Sample Type	Bismuth (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Calcium (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Lithium (Filtered)	Magnesium (Filtered)	Manganese (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Phosphorus (Filtered)	Potassium (Filtered)	Selenium (Filtered)	Silicon (Filtered)	Silver (Filtered)	Sodium (Filtered)	Strontium (Filtered)	Thallium (Filtered)	Tin (Filtered)
ATR-D2	29-Sep-14	Normal	<0.00005	<0.01	<0.00001	32.6	<0.0001	<0.0001	0.00023	<0.01	<0.00005	<0.003	9.9	0.0012	0.000654	0.00026	<0.3	<0.5	0.00012	1.24	<0.00001	2.5	0.289	<0.00005	<0.0001
	05-Sep-14	Normal	<0.00005	<0.01	<0.00001	35.5	<0.0001	<0.0001	0.00012	<0.01	<0.00005	<0.003	9.85	0.000204	0.000571	<0.0001	<0.3	0.48	0.00018	1.2	<0.00001	3.16	0.342	<0.00001	<0.0001
	08-Sep-14	Normal	<0.00005	<0.01	<0.00001	37.9	<0.0001	<0.0001	0.00019	<0.01	<0.00005	<0.003	11.3	0.000128	0.000706	<0.0001	<0.3	0.58	0.00019	1.3	<0.00001	3.7	0.373	<0.00005	<0.0001
	11-Sep-14	Normal	<0.00005	<0.01	<0.00001	34.4	<0.0001	<0.0001	<0.0001	<0.01	<0.00005	<0.003	10.3	0.000169	0.000589	<0.0001	<0.3	0.494	0.00018	1.31	<0.00001	3.25	0.347	<0.00001	<0.0001
	18-Sep-14	Normal	<0.00005	<0.01	<0.00001	39	<0.0001	<0.0001	0.00031	<0.01	<0.00005	<0.003	12	0.000067	0.000712	0.00012	<0.3	0.618	0.00026	1.19	<0.00001	3.51	0.417	<0.00001	<0.0001
	22-Sep-14	Normal	<0.00005	<0.01	<0.00001	34.2	<0.0001	<0.0001	0.00015	<0.01	<0.00005	<0.003	9.98	0.000138	0.000565	0.00015	<0.3	0.52	0.00016	1.09	<0.00001	2.8	0.342	<0.00005	<0.0001
	25-Sep-14	Normal	<0.00005	<0.01	<0.00001	34.2	<0.0001	<0.0001	0.00035	<0.01	<0.00005	<0.003	9.53	0.000174	0.00055	0.00013	<0.3	0.529	0.00016	1.14	<0.00001	2.58	0.333	<0.00001	<0.0001
29-Sep-14	Normal	<0.00005	<0.01	<0.00001	31.7	<0.0001	<0.0001	0.00019	<0.01	<0.00005	<0.003	8.88	0.00018	0.000475	0.00019	<0.3	<0.5	0.00013	1.27	<0.00001	2.4	0.285	<0.00005	<0.0001	
ATR-FF-1	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-2	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-3	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-4	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-5	23-Sep-14	Normal	<0.00005	0.032	0.000012	39.5	<0.0001	<0.0001	0.00056	0.01	<0.00005	0.0075	10.6	0.000573	0.000792	0.00078	<0.3	1.33	0.00016	0.434	<0.00001	12.1	0.303	<0.00005	<0.0001
	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-6	22-Sep-14	Normal	<0.00005	0.026	0.000012	33.7	<0.0001	<0.0001	0.00045	0.018	<0.00005	0.0064	9.46	0.000374	0.000899	0.00065	<0.3	1.24	0.00015	1.2	<0.00001	14.1	0.246	<0.00005	<0.0001
ATR-FF-7	22-Sep-14	Normal	<0.00005	0.028	<0.00001	35.9	<0.0001	<0.0001	0.00053	0.019	<0.00005	0.0069	9.38	0.00189	0.000787	0.00079	<0.3	1.21	0.00014	1.64	<0.00001	17.8	0.243	<0.00005	<0.0001
ATR-NF-1	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-2	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-3	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-4	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-5	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-PLC	05-Sep-14	Normal	<0.00005	<0.01	<0.00001	58.4	<0.0001	<0.0001	0.00029	<0.01	<0.00005	0.0056	14.8	0.000302	0.000744	0.00026	<0.3	0.844	0.00011	3.39	<0.00001	13.3	0.373	<0.00001	<0.0001
	11-Sep-14	Normal	<0.00005	<0.01	<0.00001	62.9	<0.0001	<0.0001	0.00014	<0.01	<0.00005	0.0058	15.7	0.000293	0.000674	0.00026	<0.3	0.857	<0.0001	4	<0.00001	15	0.35	<0.00001	<0.0001
	18-Sep-14	Normal	<0.00005	<0.01	<0.00001	53.5	<0.0001	<0.0001	0.00029	<0.01	<0.00005	0.0042	14.8	0.000189	0.000676	0.00029	<0.3	0.829	0.0001	2.91	<0.00001	11.3	0.35	<0.00001	<0.0001
	22-Sep-14	Normal	<0.00005	<0.01	<0.00001	61.3	<0.0001	<0.0001	0.00024	0.013	<0.00005	0.0056	15.1	0.0009	0.000687	0.00035	<0.3	0.85	0.00012	3.55	<0.00001	14	0.34	<0.00005	<0.0001
	29-Sep-14	Normal	<0.00005	<0.01	<0.00001	53.4	<0.0001	<0.0001	0.00025	0.02	<0.00005	0.0052	12.7	0.00029	0.000639	0.0004	<0.3	0.79	0.00011	3.61	<0.00001	10	0.318	<0.00005	<0.0001
ATR-REF-1	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-REF-2	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-REF-3	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
Water Quality
September 2014

				/ Inorganic		Physical Tests																		
Titanium (Filtered)	Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)	Dissolved Organic Carbon (Filtered)	TOC	Colour	Total Dissolved Solids (Filtered)	Total Suspended Solids	Turbidity	Benzo[b+j]fluoranthene	C4 Benzantracenes/Chrysenes	C4 Dibenzothiophenes	C4 Fluoranthenes/Pyrenes	C4 Naphthalenes	C4 Phenanthrenes/Anthracenes	Biphenyl	1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Acridine
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	Colour units	mg/L	mg/L	NTU	µg/L	ug/L	ug/L	ug/L	ug/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MDL	0.0003	0.00001	0.0001	0.001	1	1	2	10	3	0.1	0.01	0.04	0.04	0.04	0.04	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.02

Location	Date	Sample Type	Titanium (Filtered)	Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)	Dissolved Organic Carbon (Filtered)	TOC	Colour	Total Dissolved Solids (Filtered)	Total Suspended Solids	Turbidity	Benzo[b+j]fluoranthene	C4 Benzantracenes/Chrysenes	C4 Dibenzothiophenes	C4 Fluoranthenes/Pyrenes	C4 Naphthalenes	C4 Phenanthrenes/Anthracenes	Biphenyl	1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Acridine	
ATR-D2	29-Sep-14	Normal	<0.0003	0.000398	<0.0001	<0.001	1.6	1.7	5.3	134	30.3	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02	
	05-Sep-14	Normal	<0.0003	0.000406	<0.0001	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	0.012	<0.01	<0.01	<0.02	
	08-Sep-14	Normal	<0.0003	0.000393	<0.0001	<0.001	1.5	1.4	<2	162	10.5	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	0.011	<0.01	<0.01	<0.02	
	11-Sep-14	Normal	0.00031	0.000398	0.00011	<0.001	-	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	0.014	<0.01	<0.01	<0.02
	18-Sep-14	Normal	<0.0003	0.000478	<0.0001	<0.001	-	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	0.013	<0.01	<0.01	<0.02
	22-Sep-14	Normal	<0.0003	0.000433	<0.0001	<0.001	<1	<1	18.6	126	21	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	25-Sep-14	Normal	<0.0003	0.000388	<0.0001	<0.001	-	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
29-Sep-14	Normal	<0.0003	0.000395	<0.0001	<0.001	1.8	1.7	5.1	150	37.5	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02	
ATR-FF-1	25-Sep-14	Normal	-	-	-	-	-	-	-	-	50,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-2	25-Sep-14	Normal	-	-	-	-	-	-	-	-	8590	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-3	25-Sep-14	Normal	-	-	-	-	-	-	-	-	24,900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-4	25-Sep-14	Normal	-	-	-	-	-	-	-	-	3660	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-5	23-Sep-14	Normal	<0.0003	0.000469	0.00013	<0.001	5.1	4.7	<2	177	<3	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02	
	25-Sep-14	Normal	-	-	-	-	-	-	-	-	9700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-6	22-Sep-14	Normal	<0.0003	0.000394	0.00025	<0.001	5.4	5.3	16.8	166	8.8	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02	
ATR-FF-7	22-Sep-14	Normal	<0.0003	0.00039	0.00024	<0.001	5.8	5.9	17.9	171	7.7	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02	
ATR-NF-1	24-Sep-14	Normal	-	-	-	-	-	-	-	-	28,900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-2	24-Sep-14	Normal	-	-	-	-	-	-	-	-	31,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Field Duplicate	-	-	-	-	-	-	-	-	18,000 - 55,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-3	24-Sep-14	Normal	-	-	-	-	-	-	-	-	5440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-4	24-Sep-14	Normal	-	-	-	-	-	-	-	-	8640	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-5	24-Sep-14	Normal	-	-	-	-	-	-	-	-	11,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-PLC	05-Sep-14	Normal	<0.0003	0.000894	0.00013	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02	
	11-Sep-14	Normal	<0.0003	0.000933	0.00015	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02	
	18-Sep-14	Normal	<0.0003	0.000755	0.00015	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02	
	22-Sep-14	Normal	<0.0003	0.000901	0.00012	0.0022	4.7	4.6	29.5	225	<3	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02	
	29-Sep-14	Normal	<0.0003	0.000734	0.00012	<0.001	5.1	5.2	16.4	224	5.9	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02	
ATR-REF-1	23-Sep-14	Normal	-	-	-	-	-	-	-	-	7420	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-REF-2	23-Sep-14	Normal	-	-	-	-	-	-	-	-	36,600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-REF-3	23-Sep-14	Normal	-	-	-	-	-	-	-	-	13,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
Water Quality
September 2014

	C2 Fluorenes	C2 subd B(a)Anthracenes/Chrysenes	C3 Benzantracenes/Chrysenes	C3 Dibenzothiophenes	C3 Fluoranthenes/Pyrenes	C3 Fluorenes	C3 Naphthalenes	C3 Phenanthrenes/Anthracenes	Aluminium	Antimony	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium	Calcium	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Lithium	Magnesium
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDL	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.003	0.0001	0.0001	0.00005	0.0001	0.00005	0.01	0.00001	0.02	0.0001	0.0001	0.0001	0.01	0.00005	0.005	0.005

Location	Date	Sample Type	C2 Fluorenes	C2 subd B(a)Anthracenes/Chrysenes	C3 Benzantracenes/Chrysenes	C3 Dibenzothiophenes	C3 Fluoranthenes/Pyrenes	C3 Fluorenes	C3 Naphthalenes	C3 Phenanthrenes/Anthracenes	Aluminium	Antimony	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium	Calcium	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Lithium	Magnesium
ATR-D2	29-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.456	<0.0001	0.00024	0.0386	<0.0001	<0.00005	<0.01	<0.00001	39.9	0.00067	0.00035	0.00072	0.684	0.000436	<0.005	10.2
	05-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.272	<0.0001	0.00023	0.0428	<0.0001	<0.00005	<0.01	<0.00001	37	0.00043	0.00021	0.00049	0.427	0.000294	<0.005	10.9
	08-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.101	<0.0001	0.00015	0.0426	<0.0001	<0.00005	<0.01	<0.00001	38.5	0.00013	<0.0001	0.0004	0.128	0.000171	<0.005	11.2
	11-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.213	<0.0001	0.00017	0.0427	<0.0001	<0.00005	<0.01	<0.00001	35.6	0.00033	0.00015	0.00034	0.265	0.000208	<0.005	11.1
	18-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.107	<0.0001	0.00015	0.0527	<0.0001	<0.00005	<0.01	<0.00001	39.6	0.00015	<0.0001	0.00031	0.111	0.00011	<0.005	12.2
	22-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.29	<0.0001	0.00023	0.047	<0.0001	<0.00005	<0.01	<0.00001	40.6	0.00039	0.00024	0.00058	0.45	0.000312	<0.005	11.5
	25-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.328	<0.0001	0.00025	0.0466	<0.0001	<0.00005	<0.01	<0.00001	36	0.00044	0.00026	0.00113	0.52	0.000345	<0.005	10.5
	29-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.385	<0.0001	0.00024	0.0406	<0.0001	<0.00005	<0.01	<0.00001	39.9	0.00054	0.00035	0.00072	0.602	0.000486	<0.005	10.3
ATR-FF-1	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-2	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-3	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-4	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-5	23-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0489	<0.0001	0.00041	0.0636	<0.0001	<0.00005	0.025	0.000015	36.4	<0.0001	0.00013	0.00041	0.084	0.000451	0.0066	11.3
	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-6	22-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0781	<0.0001	0.00055	0.0534	<0.0001	<0.00005	0.025	0.00002	35.2	0.00018	0.00018	0.00056	0.312	0.000142	0.0062	9.84
ATR-FF-7	22-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0709	<0.0001	0.00056	0.0545	<0.0001	<0.00005	0.027	0.000015	35	0.00016	0.00018	0.00067	0.299	0.000134	0.0066	10
ATR-NF-1	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-2	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-3	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-4	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-5	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-PLC	05-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0526	<0.0001	0.00037	0.0765	<0.0001	<0.00005	<0.01	<0.00001	59.4	0.00014	<0.0001	0.00027	0.122	0.000075	0.0053	15.9
	11-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0181	<0.0001	0.00033	0.077	<0.0001	<0.00005	<0.01	<0.00001	62.3	<0.0001	<0.0001	0.00016	0.125	0.000057	0.0066	16.7
	18-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0291	<0.0001	0.00031	0.0769	<0.0001	<0.00005	<0.01	<0.00001	55.4	<0.0001	<0.0001	0.00026	0.097	<0.00005	0.0057	14.4
	22-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.033	<0.0001	0.00036	0.0732	<0.0001	<0.00005	<0.01	<0.00001	61.2	<0.0001	<0.0001	0.00031	0.125	<0.00005	0.0062	15.4
	29-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0982	<0.0001	0.00034	0.0699	<0.0001	<0.00005	<0.01	<0.00001	60.7	0.00018	<0.0001	0.00044	0.228	0.000097	0.0062	14.8
ATR-REF-1	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-REF-2	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-REF-3	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
Water Quality
September 2014

Total Metals																	
	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDL	0.00005	5.0E-7	0.00005	0.0001	0.3	0.05	0.0001	0.05	0.00001	0.05	0.0001	0.00001	0.0001	0.0003	0.00001	0.0001	0.003

Location	Date	Sample Type	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
	29-Sep-14	Normal	0.0153	0.00000107	0.000543	0.00079	<0.3	0.649	0.00016	1.71	<0.00001	2.81	0.35	0.00003	<0.0001	<0.005	0.000426	0.0006	<0.003
ATR-D2	05-Sep-14	Normal	0.0135	-	0.000621	0.00054	<0.3	0.582	0.00017	1.44	<0.00001	3.18	0.356	<0.00001	<0.0001	0.0028	0.000451	0.00064	<0.003
	08-Sep-14	Normal	0.00804	-	0.000562	0.00029	<0.3	0.583	0.00021	1.45	<0.00001	3.8	0.37	<0.00001	<0.0001	0.00138	0.00046	0.00024	<0.003
	11-Sep-14	Normal	0.008	-	0.000536	0.00039	<0.3	0.603	0.00019	1.42	<0.00001	3.24	0.351	<0.00001	<0.0001	0.00349	0.000419	0.00057	<0.003
	18-Sep-14	Normal	0.00574	-	0.000715	0.00031	<0.3	0.67	0.00026	1.26	0.00001	3.84	0.425	<0.00001	<0.0001	0.00103	0.000503	0.00027	<0.003
	22-Sep-14	Normal	0.0133	0.00000101	0.000596	0.00061	<0.3	0.683	0.00019	1.45	<0.00001	3.04	0.383	<0.00001	<0.0001	0.00208	0.000409	0.00058	<0.003
	25-Sep-14	Normal	0.0145	-	0.000546	0.00065	<0.3	0.68	0.00016	1.77	<0.00001	2.74	0.34	<0.00001	<0.0001	0.00265	0.000421	0.00074	<0.003
	29-Sep-14	Normal	0.0175	0.00000127	0.000433	0.00079	<0.3	0.627	0.00013	1.53	<0.00001	2.97	0.33	<0.00001	<0.0001	0.00271	0.000396	0.0006	0.0034
ATR-FF-1	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-2	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-3	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-4	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-5	23-Sep-14	Normal	0.0137	0.00000123	0.000794	0.00083	<0.3	1.33	0.00013	0.497	<0.00001	11	0.29	<0.00001	<0.0001	0.00095	0.000505	0.00038	<0.003
	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-FF-6	22-Sep-14	Normal	0.0241	9.3E-7	0.000917	0.00093	<0.3	1.32	0.00016	1.22	<0.00001	14.5	0.26	<0.00001	<0.0001	0.00144	0.000461	0.00067	<0.003
ATR-FF-7	22-Sep-14	Normal	0.0434	8.0E-7	0.000821	0.00108	<0.3	1.28	0.00017	1.6	<0.00001	18.3	0.247	<0.00001	<0.0001	0.0017	0.000455	0.00065	<0.003
ATR-NF-1	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-2	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Field Duplicate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-3	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-4	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-NF-5	24-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-PLC	05-Sep-14	Normal	0.00936	-	0.000779	0.00036	<0.3	0.854	0.00011	3.29	<0.00001	13.3	0.386	<0.00001	<0.0001	0.00057	0.00095	0.00038	<0.003
	11-Sep-14	Normal	0.0124	-	0.000659	0.00027	<0.3	0.922	0.0001	4.22	<0.00001	14.8	0.358	<0.00001	<0.0001	0.00045	0.000982	0.0002	<0.003
	18-Sep-14	Normal	0.00698	-	0.000626	0.0003	<0.3	0.861	0.00015	3.44	<0.00001	12.2	0.336	<0.00001	<0.0001	<0.0003	0.000769	0.00017	<0.003
	22-Sep-14	Normal	0.00728	<5.0E-7	0.000707	0.00041	<0.3	0.893	0.0001	3.55	<0.00001	14.1	0.349	<0.00001	<0.0001	0.00051	0.000783	0.00035	<0.003
	29-Sep-14	Normal	0.0096	6.4E-7	0.00067	0.00045	<0.3	0.9	0.00012	3.39	<0.00001	13	0.358	<0.00001	<0.0001	0.00092	0.000724	0.00035	<0.003
ATR-REF-1	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-REF-2	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-REF-3	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
Water Quality
September 2014

	Organics			Anions and Nutrients																								
	Hydrocarbons, Recoverable (I.R.)	BOD	Phenols (4AAP)	Alkalinity (T) as CaCO3	Ammonia	Bicarbonate	Carbonate	Chloride	Electrical Conductivity (lab)	Hydroxide	Ionic Balance	Kjeldahl Nitrogen Total	Nitrate (as N)	Nitrite (as N)	Nitrogen (Total Oxidised)	pH (Lab)	Phosphorus	Phosphorus (Filtered)	Sulphate	Sulphide	Hardness as CaCO3	Total Dissolved Solids	Aluminium (Filtered)	Antimony (Filtered)	Arsenic (Filtered)	Barium (Filtered)	Beryllium (Filtered)	
MDL	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mS/cm	mg/L	%	mg/L	mg/L	mg/L	mg/L	pH	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	1	2	1	2	0.05	5	5	0.5	0.0002	5		0.2	0.05	0.02	0.05	0.1	0.001	0.001	0.5	0.0015			0.001	0.0001	0.0001	0.00005	0.0001	

Location	Date	Sample Type	Hydrocarbons, Recoverable (I.R.)	BOD	Phenols (4AAP)	Alkalinity (T) as CaCO3	Ammonia	Bicarbonate	Carbonate	Chloride	Electrical Conductivity (lab)	Hydroxide	Ionic Balance	Kjeldahl Nitrogen Total	Nitrate (as N)	Nitrite (as N)	Nitrogen (Total Oxidised)	pH (Lab)	Phosphorus	Phosphorus (Filtered)	Sulphate	Sulphide	Hardness as CaCO3	Total Dissolved Solids	Aluminium (Filtered)	Antimony (Filtered)	Arsenic (Filtered)	Barium (Filtered)	Beryllium (Filtered)	
ATR-REF-4	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ATR-REF-5	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ATR-US	05-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0159	<0.0001	0.00011	0.039	<0.0001	
	08-Sep-14	Normal	<1	<2	<1	89.4	<0.05	109	<5	0.78	0.275	<5	101	<0.2	<0.05	<0.02	<0.054	8.14	0.0094	0.0052	45.6	<0.0015	133	150	0.0099	<0.0001	0.0001	0.043	<0.0005	
		Field Duplicate	<1	<2	<1	89.7	<0.05	109	<5	0.72	0.274	<5	104	<0.2	<0.05	<0.02	<0.054	8.08	0.01	0.0069	45.7	<0.0015	136	151	0.0105	<0.0001	<0.0001	0.0439	<0.0005	
	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0091	<0.0001	<0.0001	0.0397	<0.0001	
	18-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0719	<0.0001	<0.0001	0.0486	<0.0001	
	22-Sep-14	Normal	<1	<2	<1	88.8	<0.05	108	<5	<0.5	0.272	<5	99	<0.2	<0.05	<0.02	<0.054	8.2	0.0147	0.0016	45.9	0.0019	128	147	0.0118	<0.0001	<0.0001	0.038	<0.0005	
	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0161	<0.0001	<0.0001	0.0375	<0.0001	
29-Sep-14	Normal	<1	<2	<1	85.7	<0.05	105	<5	<0.5	0.259	<5	94.4	<0.2	<0.05	<0.02	<0.054	8.18	0.0152	0.0047	42.2	<0.0015	118	137	0.0177	<0.0001	0.00017	0.0349	<0.0005		
PLC-1	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PLC-2	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-3	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-DS	05-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0017	<0.0001	0.00032	0.0832	<0.0001	
	08-Sep-14	Normal	<1	<2	<1	228	<0.05	271	<5	<0.5	0.442	<5	106	<0.2	<0.05	<0.02	<0.054	8.39	0.0029	<0.001	13.9	<0.0015	219	243	0.0017	<0.0001	0.00028	0.0748	<0.0005	
	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0011	<0.0001	0.00035	0.0755	<0.0001	
	18-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0014	<0.0001	0.00035	0.0786	<0.0001	
	22-Sep-14	Normal	<1	<2	<1	232	<0.05	271	5.9	<0.5	0.448	<5	102	<0.2	<0.05	<0.02	<0.054	8.44	0.002	0.0021	15.7	<0.0015	218	248	0.0037	<0.0001	0.00032	0.0737	<0.0005	
	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0011	<0.0001	0.00029	0.0801	<0.0001	
29-Sep-14	Normal	<1	<2	<1	224	<0.05	258	7.6	<0.5	0.437	<5	95.8	<0.2	<0.05	<0.02	<0.054	8.53	0.0034	0.0041	13.7	<0.0015	200	233	0.0021	<0.0001	0.0003	0.0727	<0.0005		
PLC-US	05-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0026	<0.0001	0.00047	0.0774	<0.0001	
	08-Sep-14	Normal	<1	<2	<1	224	<0.05	273	<5	<0.5	0.408	<5	105	<0.2	<0.05	<0.02	<0.054	8.27	0.0074	0.0084	2.64	<0.0015	226	223	0.0025	<0.0001	0.00041	0.0734	<0.0005	
	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0019	<0.0001	0.00036	0.0687	<0.0001	
	18-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0027	<0.0001	0.00038	0.0704	<0.0001	
	22-Sep-14	Normal	<1	<2	<1	223	<0.05	272	<5	<0.5	0.408	<5	97.6	<0.2	<0.05	<0.02	<0.054	8.29	0.0053	0.0028	2.18	<0.0015	209	215	0.0022	<0.0001	0.00039	0.0667	<0.0005	
	25-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0021	<0.0001	0.00039	0.0694	<0.0001	
29-Sep-14	Normal	<1	<2	<1	215	<0.05	254	<5	2.52	0.392	<5	98.7	<0.2	<0.05	<0.02	<0.054	8.44	0.0059	0.0048	2.37	<0.0015	201	211	0.0029	<0.0001	0.00039	0.0648	<0.0005		
PLC-US-1	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PLC-US-2	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-US-3	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-US-4	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
Water Quality
September 2014

Dissolved Metals

	Bismuth (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Calcium (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Lithium (Filtered)	Magnesium (Filtered)	Manganese (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Phosphorus (Filtered)	Potassium (Filtered)	Selenium (Filtered)	Silicon (Filtered)	Silver (Filtered)	Sodium (Filtered)	Strontium (Filtered)	Thallium (Filtered)	Tin (Filtered)
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDL	0.00005	0.01	0.00001	0.02	0.0001	0.0001	0.0001	0.01	0.00005	0.003	0.005	0.00005	0.00005	0.0001	0.3	0.05	0.0001	0.05	0.00001	0.05	0.0001	0.00001	0.0001

Location	Date	Sample Type	Bismuth (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Calcium (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Lithium (Filtered)	Magnesium (Filtered)	Manganese (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Phosphorus (Filtered)	Potassium (Filtered)	Selenium (Filtered)	Silicon (Filtered)	Silver (Filtered)	Sodium (Filtered)	Strontium (Filtered)	Thallium (Filtered)	Tin (Filtered)	
ATR-REF-4	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ATR-REF-5	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ATR-US	05-Sep-14	Normal	<0.00005	<0.01	<0.00001	34.8	<0.0001	<0.0001	0.00019	<0.01	<0.00005	<0.003	9.89	0.000264	0.000592	0.00013	<0.3	0.5	0.00017	1.29	<0.00001	3.16	0.353	<0.00001	<0.0001	
	08-Sep-14	Normal	<0.00005	<0.01	<0.00001	34.9	<0.0001	<0.0001	0.00021	<0.01	<0.00005	<0.003	11.1	0.000476	0.00063	<0.0001	<0.3	0.52	0.00019	1.35	<0.00001	3	0.343	<0.00005	<0.0001	
		Field Duplicate	<0.00005	<0.01	<0.00001	36.6	<0.0001	<0.0001	0.00029	<0.01	<0.00005	<0.003	10.9	0.000445	0.000647	<0.0001	<0.3	0.52	0.00022	1.34	<0.00001	3	0.362	<0.00005	<0.0001	
	11-Sep-14	Normal	<0.00005	<0.01	<0.00001	34.4	<0.0001	<0.0001	<0.0001	<0.01	<0.00005	<0.003	10.2	0.000149	0.000591	<0.0001	<0.3	0.461	0.00021	1.37	<0.00001	2.44	0.348	<0.00001	<0.0001	
	18-Sep-14	Normal	<0.00005	<0.01	<0.00001	37.7	<0.0001	<0.0001	0.00021	0.011	<0.00005	<0.003	12.3	0.000531	0.000716	0.00014	<0.3	0.613	0.00025	1.31	<0.00001	3.24	0.416	<0.00001	<0.0001	
	22-Sep-14	Normal	<0.00005	<0.01	<0.00001	34.3	<0.0001	<0.0001	0.00016	<0.01	<0.00005	<0.003	10.4	0.000421	0.000588	0.00015	<0.3	0.51	0.0002	1.14	<0.00001	2.7	0.344	<0.00005	<0.0001	
	25-Sep-14	Normal	<0.00005	<0.01	<0.00001	33.1	<0.0001	<0.0001	0.00027	<0.01	<0.00005	<0.003	9.32	0.000204	0.000537	0.00014	<0.3	0.525	0.00016	1.16	<0.00001	2.56	0.327	<0.00001	<0.0001	
29-Sep-14	Normal	<0.00005	<0.01	<0.00001	31.7	<0.0001	<0.0001	0.00019	<0.01	<0.00005	<0.003	9.37	0.000538	0.000523	0.00022	<0.3	<0.5	0.00016	1.25	<0.00001	2.3	0.304	<0.00005	<0.0001		
PLC-1	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PLC-2	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PLC-3	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PLC-DS	05-Sep-14	Normal	<0.00005	<0.01	<0.00001	68.1	<0.0001	<0.0001	0.0002	<0.01	<0.00005	0.0068	16.9	0.000878	0.00083	0.00027	<0.3	0.954	<0.0001	4.02	<0.00001	16.8	0.387	<0.00001	<0.0001	
	08-Sep-14	Normal	<0.00005	<0.01	<0.00001	61.2	<0.0001	<0.0001	0.00023	0.011	<0.00005	0.006	16	0.000673	0.000711	0.00018	<0.3	0.88	<0.0001	4.28	<0.00001	14.1	0.325	<0.00005	<0.0001	
	11-Sep-14	Normal	<0.00005	<0.01	<0.00001	61.8	<0.0001	<0.0001	0.00011	<0.01	<0.00005	0.0063	16.4	0.000305	0.000693	0.00023	<0.3	0.872	<0.0001	4.18	<0.00001	15.9	0.355	<0.00001	<0.0001	
	18-Sep-14	Normal	<0.00005	<0.01	<0.00001	58.8	<0.0001	<0.0001	0.00026	0.012	<0.00005	0.005	15.7	0.00041	0.000667	0.00027	<0.3	0.887	<0.0001	3.56	<0.00001	13.6	0.332	<0.00001	<0.0001	
	22-Sep-14	Normal	<0.00005	<0.01	<0.00001	61.4	<0.0001	<0.0001	0.00021	0.011	<0.00005	0.0055	15.8	0.0016	0.00069	0.00033	<0.3	0.87	<0.0001	3.84	<0.00001	15.2	0.342	<0.00005	<0.0001	
	25-Sep-14	Normal	<0.00005	<0.01	<0.00001	64.4	<0.0001	<0.0001	0.00029	<0.01	<0.00005	0.0065	14.7	0.000272	0.000752	0.00036	<0.3	0.958	<0.0001	4.08	<0.00001	14.1	0.35	<0.00001	<0.0001	
	29-Sep-14	Normal	<0.00005	<0.01	<0.00001	57.6	<0.0001	<0.0001	0.00025	0.018	<0.00005	0.0059	13.7	0.00028	0.00068	0.00036	<0.3	0.89	<0.0001	4.32	<0.00001	12.5	0.316	<0.00005	<0.0001	
PLC-US	05-Sep-14	Normal	<0.00005	<0.01	<0.00001	68.3	<0.0001	<0.0001	0.00023	0.013	<0.00005	0.0035	15.8	0.00198	0.00062	0.00033	<0.3	0.777	<0.0001	4.6	<0.00001	5.68	0.331	<0.00001	<0.0001	
	08-Sep-14	Normal	<0.00005	<0.01	<0.00001	64.1	<0.0001	<0.0001	0.00026	0.033	<0.00005	0.0035	16	0.000607	0.000539	0.00026	<0.3	0.9	<0.0001	4.91	<0.00001	5.4	0.293	<0.00005	<0.0001	
	11-Sep-14	Normal	<0.00005	<0.01	<0.00001	64.6	<0.0001	<0.0001	0.00013	0.026	<0.00005	<0.003	14.7	0.00154	0.000459	0.00029	<0.3	0.748	<0.0001	4.51	<0.00001	4.74	0.29	<0.00001	<0.0001	
	18-Sep-14	Normal	<0.00005	<0.01	<0.00001	59.4	<0.0001	<0.0001	0.00021	0.037	<0.00005	<0.003	14.6	0.000638	0.000444	0.00039	<0.3	0.763	<0.0001	3.92	<0.00001	4.45	0.277	<0.00001	<0.0001	
	22-Sep-14	Normal	<0.00005	<0.01	<0.00001	59.1	<0.0001	<0.0001	0.0002	0.037	<0.00005	<0.003	14.8	0.00684	0.000439	0.00039	<0.3	0.74	<0.0001	4.32	<0.00001	4.8	0.264	<0.00005	<0.0001	
	25-Sep-14	Normal	<0.00005	<0.01	<0.00001	65.1	<0.0001	<0.0001	0.00021	0.031	<0.00005	0.0032	13.9	0.000449	0.000498	0.00039	<0.3	0.836	<0.0001	4.45	<0.00001	4.64	0.294	<0.00001	<0.0001	
	29-Sep-14	Normal	<0.00005	<0.01	<0.00001	58.8	<0.0001	<0.0001	0.00026	0.05	<0.00005	<0.003	13.2	0.000508	0.000441	0.00044	<0.3	0.83	<0.0001	4.67	<0.00001	4.3	0.253	<0.00005	<0.0001	
PLC-US-1	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PLC-US-2	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-US-3	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-US-4	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
Water Quality
September 2014

				/ Inorganic		Physical Tests																			
Titanium (Filtered)	Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)	Dissolved Organic Carbon (Filtered)	TOC	Colour	Total Dissolved Solids (Filtered)	Total Suspended Solids	Turbidity	Benzo[b+j]fluoranthene	C4 Benzantracenes/Chrysenes	C4 Dibenzothiophenes	C4 Fluoranthenes/Pyrenes	C4 Naphthalenes	C4 Phenanthrenes/Anthracenes	Biphenyl	1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Acridine	
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	Colour units	mg/L	mg/L	NTU	µg/L	ug/L	ug/L	ug/L	ug/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
MDL	0.0003	0.00001	0.0001	0.001	1	1	2	10	3	0.1	0.01	0.04	0.04	0.04	0.04	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.02

Location	Date	Sample Type	Titanium (Filtered)	Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)	Dissolved Organic Carbon (Filtered)	TOC	Colour	Total Dissolved Solids (Filtered)	Total Suspended Solids	Turbidity	Benzo[b+j]fluoranthene	C4 Benzantracenes/Chrysenes	C4 Dibenzothiophenes	C4 Fluoranthenes/Pyrenes	C4 Naphthalenes	C4 Phenanthrenes/Anthracenes	Biphenyl	1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Acridine
ATR-REF-4	23-Sep-14	Normal	-	-	-	-	-	-	-	-	19,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-REF-5	23-Sep-14	Normal	-	-	-	-	-	-	-	-	20,900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-US	05-Sep-14	Normal	<0.0003	0.000406	<0.0001	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	08-Sep-14	Normal	<0.0003	0.000387	<0.0001	<0.001	1.3	1.2	2.1	160	16.1	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	0.01	<0.01	<0.01	<0.02
		Field Duplicate	<0.0003	0.000375	<0.0001	<0.001	1.4	1.3	<2	151	15.6	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	0.011	<0.01	<0.01	<0.02
	11-Sep-14	Normal	<0.0003	0.000405	<0.0001	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	18-Sep-14	Normal	0.00037	0.000463	0.00012	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	0.01	<0.01	<0.01	<0.02
	22-Sep-14	Normal	<0.0003	0.000438	0.0001	0.0032	1.1	<1	18.5	144	24.2	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	25-Sep-14	Normal	<0.0003	0.00038	<0.0001	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
29-Sep-14	Normal	<0.0003	0.000399	<0.0001	0.0011	1.6	1.6	3.3	137	23.7	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02	
PLC-1	11-Sep-14	Normal	-	-	-	-	-	-	-	-	6990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-2	11-Sep-14	Normal	-	-	-	-	-	-	-	-	10,700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-3	11-Sep-14	Normal	-	-	-	-	-	-	-	-	24,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-DS	05-Sep-14	Normal	<0.0003	0.00111	0.00016	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	08-Sep-14	Normal	<0.0003	0.00089	0.00012	<0.001	4.1	4	12.7	262	<3	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	11-Sep-14	Normal	<0.0003	0.000986	0.00014	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	18-Sep-14	Normal	<0.0003	0.000854	0.00018	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	22-Sep-14	Normal	<0.0003	0.000967	0.00017	0.0046	5.6	5.2	32.3	233	<3	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	25-Sep-14	Normal	<0.0003	0.000906	0.00014	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	29-Sep-14	Normal	<0.0003	0.000854	0.00015	<0.001	6.5	6.5	22.2	245	<3	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
PLC-US	05-Sep-14	Normal	<0.0003	0.000826	0.00013	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	08-Sep-14	Normal	<0.0003	0.000672	0.00014	<0.001	5.7	5.7	20.1	240	<3	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	11-Sep-14	Normal	<0.0003	0.000618	0.00013	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	18-Sep-14	Normal	<0.0003	0.00056	0.00011	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	22-Sep-14	Normal	<0.0003	0.000616	0.00012	0.0013	7.1	6.9	38.8	211	<3	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	25-Sep-14	Normal	<0.0003	0.000586	0.00011	<0.001	-	-	-	-	-	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
	29-Sep-14	Normal	<0.0003	0.000534	0.00013	<0.001	8.1	7.8	27.5	219	<3	-	<0.01	<0.04	<0.04	<0.04	<0.04	<0.04	<0.01	<0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01	<0.02
PLC-US-1	11-Sep-14	Normal	-	-	-	-	-	-	-	-	16,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-US-2	11-Sep-14	Normal	-	-	-	-	-	-	-	-	42,900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-US-3	11-Sep-14	Normal	-	-	-	-	-	-	-	-	6990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-US-4	11-Sep-14	Normal	-	-	-	-	-	-	-	-	22,300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
Water Quality
September 2014

	C2 Fluorenes	C2 subd B(a)Anthracenes/Chrysenes	C3 Benzantracenes/Chrysenes	C3 Dibenzothiophenes	C3 Fluoranthenes/Pyrenes	C3 Fluorenes	C3 Naphthalenes	C3 Phenanthrenes/Anthracenes	Aluminium	Antimony	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium	Calcium	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Lithium	Magnesium
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDL	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.003	0.0001	0.0001	0.00005	0.0001	0.00005	0.01	0.00001	0.02	0.0001	0.0001	0.0001	0.01	0.00005	0.005	0.005

Location	Date	Sample Type	C2 Fluorenes	C2 subd B(a)Anthracenes/Chrysenes	C3 Benzantracenes/Chrysenes	C3 Dibenzothiophenes	C3 Fluoranthenes/Pyrenes	C3 Fluorenes	C3 Naphthalenes	C3 Phenanthrenes/Anthracenes	Aluminium	Antimony	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium	Calcium	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Lithium	Magnesium	
ATR-REF-4	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ATR-REF-5	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-US	05-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.25	<0.0001	0.00023	0.0433	<0.0001	<0.00005	<0.01	<0.00001	37.9	0.00145	0.00022	0.00049	0.428	0.006	<0.005	11	
	08-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.224	<0.0001	0.0002	0.0442	<0.0001	<0.00005	<0.01	<0.00001	40.4	0.00034	0.00018	0.00046	0.371	0.000295	<0.005	12	
		Field Duplicate	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.104	<0.0001	0.00014	0.0434	<0.0001	<0.00005	<0.01	<0.00001	38.4	0.00015	0.00013	0.00044	0.175	0.000235	<0.005	11.4	
	11-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.13	<0.0001	0.00014	0.0406	<0.0001	<0.00005	<0.01	<0.00001	36.4	0.00024	0.00013	0.00026	0.232	0.000272	<0.005	10.7	
	18-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.182	<0.0002	0.00026	0.0493	<0.0002	<0.0001	<0.02	<0.00002	39.7	0.00025	<0.0002	0.00077	0.175	0.00014	<0.01	13	
	22-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.285	<0.0001	0.00023	0.0432	<0.0001	<0.00005	<0.01	<0.00001	38.1	0.00042	0.00026	0.00059	0.476	0.000341	<0.005	11.2	
	25-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.547	<0.0001	0.0003	0.0456	<0.0001	<0.00005	<0.01	<0.00001	38.6	0.00071	0.00042	0.00081	0.8	0.000528	<0.005	10.5	
29-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.395	<0.0001	0.00022	0.0391	<0.0001	<0.00005	<0.01	<0.00001	37.4	0.00056	0.00028	0.00063	0.579	0.000371	<0.005	10.2		
PLC-1	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-2	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-3	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-DS	05-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0069	<0.0001	0.00035	0.081	<0.0001	<0.00005	<0.01	<0.00001	68.1	0.00012	<0.0001	0.00026	0.09	<0.00005	0.0063	17.2	
	08-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0138	<0.0001	0.00034	0.0712	<0.0001	<0.00005	<0.01	<0.00001	59.8	<0.0001	<0.0001	0.00024	0.127	<0.00005	0.0058	15.7	
	11-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0079	<0.0001	0.00033	0.0761	<0.0001	<0.00005	<0.01	<0.00001	64.5	<0.0001	<0.0001	<0.0001	0.132	0.000057	0.007	16.4	
	18-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0076	<0.0001	0.00034	0.081	<0.0001	<0.00005	<0.01	<0.00001	56.6	<0.0001	<0.0001	0.00023	0.114	<0.00005	0.0058	15.2	
	22-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0103	<0.0001	0.00039	0.0789	<0.0001	<0.00005	0.01	<0.00001	64.2	<0.0001	<0.0001	0.00028	0.133	<0.00005	0.0063	16.7	
	25-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0123	<0.0001	0.00039	0.0841	<0.0001	<0.00005	<0.01	<0.00001	61.9	<0.0001	<0.0001	0.00028	0.125	<0.00005	<0.005	15.7	
	29-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0081	<0.0001	0.00034	0.0741	<0.0001	<0.00005	<0.01	<0.00001	57.2	<0.0001	<0.0001	0.00024	0.131	<0.00005	<0.005	14.6	
PLC-US	05-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.01	<0.0001	0.00062	0.0778	<0.0001	<0.00005	<0.01	<0.00001	70.9	<0.0001	<0.0001	0.00025	0.415	<0.00005	<0.005	16.8	
	08-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.03	<0.0001	0.00055	0.0703	<0.0001	<0.00005	<0.01	<0.00001	64.6	<0.0001	<0.0001	0.00023	0.39	<0.00005	<0.005	15.5	
	11-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.01	<0.0001	0.00052	0.0677	<0.0001	<0.00005	<0.01	<0.00001	62.6	<0.0001	<0.0001	<0.0001	0.398	0.00006	<0.005	14.8	
	18-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0072	<0.0001	0.00051	0.0721	<0.0001	<0.00005	<0.01	<0.00001	58.8	<0.0001	<0.0001	0.00021	0.369	<0.00005	<0.005	13.9	
	22-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0076	<0.0001	0.00055	0.0672	<0.0001	<0.00005	<0.01	<0.00001	59.9	<0.0001	<0.0001	0.00024	0.374	<0.00005	<0.005	14.8	
	25-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0077	<0.0001	0.00059	0.0723	<0.0001	<0.00005	<0.01	<0.00001	63.4	<0.0001	<0.0001	0.00024	0.388	<0.00005	<0.005	14.5	
	29-Sep-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0087	<0.0001	0.00052	0.0666	<0.0001	<0.00005	<0.01	<0.00001	57.8	<0.0001	<0.0001	0.0002	0.329	<0.00005	<0.005	13.9	
PLC-US-1	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-US-2	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-US-3	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-US-4	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Obed Mountain Mine
Water Quality
September 2014

Total Metals																		
	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc	
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDL	0.00005	5.0E-7	0.00005	0.0001	0.3	0.05	0.0001	0.05	0.00001	0.05	0.0001	0.00001	0.0001	0.0003	0.00001	0.0001	0.0001	0.003

Location	Date	Sample Type	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
ATR-REF-4	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-REF-5	23-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ATR-US	05-Sep-14	Normal	0.0133	-	0.000757	0.00054	<0.3	0.609	0.00023	1.5	<0.00001	3.31	0.375	<0.00001	<0.0001	0.00146	0.00046	0.00057	<0.003
	08-Sep-14	Normal	0.0128	-	0.000692	0.00053	<0.3	0.593	0.0002	1.63	<0.00001	3.3	0.393	<0.00001	<0.0001	0.00152	0.000482	0.0005	<0.003
		Field Duplicate	0.0122	-	0.000471	0.00033	<0.3	0.534	0.00021	1.43	<0.00001	3.2	0.375	<0.00001	<0.0001	0.0014	0.000447	0.00023	<0.003
	11-Sep-14	Normal	0.0095	-	0.000568	0.00036	<0.3	0.511	0.00021	1.31	<0.00001	2.52	0.374	<0.00001	<0.0001	0.00103	0.000449	0.00033	<0.003
	18-Sep-14	Normal	0.00774	-	0.00084	0.00097	<0.6	0.69	0.00024	1.55	<0.00002	3.43	0.42	<0.00002	<0.0002	0.00157	0.000514	0.00077	0.0131
	22-Sep-14	Normal	0.0139	9.1E-7	0.000592	0.00064	<0.3	0.636	0.00019	1.45	<0.00001	2.78	0.37	<0.00001	0.00012	0.00223	0.000415	0.00059	<0.003
	25-Sep-14	Normal	0.0195	-	0.000534	0.00097	<0.3	0.747	0.00018	2.21	<0.00001	2.76	0.348	<0.00001	<0.0001	0.00509	0.000422	0.00099	0.0034
29-Sep-14	Normal	0.0136	9.7E-7	0.000515	0.00074	<0.3	0.633	0.00017	1.57	<0.00001	2.73	0.335	<0.00001	<0.0001	0.00286	0.000397	0.00062	0.0031	
PLC-1	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-2	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-3	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-DS	05-Sep-14	Normal	0.0103	-	0.000893	0.00029	<0.3	0.907	<0.0001	3.95	0.000014	17.3	0.381	<0.00001	<0.0001	<0.0003	0.00112	0.0004	<0.003
	08-Sep-14	Normal	0.0122	-	0.000638	0.00027	<0.3	0.844	<0.0001	3.82	<0.00001	13.7	0.325	<0.00001	<0.0001	0.00039	0.00101	0.00017	<0.003
	11-Sep-14	Normal	0.0117	-	0.000695	0.00027	<0.3	0.924	<0.0001	4.21	<0.00001	15.6	0.379	<0.00001	<0.0001	<0.0003	0.00104	0.00018	<0.003
	18-Sep-14	Normal	0.00826	-	0.000618	0.00028	<0.3	0.898	0.0001	4.16	<0.00001	14.1	0.324	<0.00001	<0.0001	<0.0003	0.000812	0.00017	<0.003
	22-Sep-14	Normal	0.0092	<5.0E-7	0.000756	0.00034	<0.3	0.94	0.0001	3.98	<0.00001	16.2	0.355	<0.00001	0.0002	<0.0003	0.000883	0.00035	<0.003
	25-Sep-14	Normal	0.0101	-	0.000738	0.00039	<0.3	1.05	<0.0001	4.5	<0.00001	15.3	0.353	<0.00001	<0.0001	<0.0003	0.000973	0.00049	<0.003
	29-Sep-14	Normal	0.00958	5.5E-7	0.000561	0.00037	<0.3	0.911	<0.0001	4.48	<0.00001	13.1	0.3	<0.00001	<0.0001	<0.0003	0.000761	0.00014	<0.003
PLC-US	05-Sep-14	Normal	0.0279	-	0.000647	0.00039	<0.3	0.751	<0.0001	4.47	<0.00001	6.02	0.323	<0.00001	<0.0001	<0.0003	0.00082	0.00053	<0.003
	08-Sep-14	Normal	0.0366	-	0.000485	0.00035	<0.3	0.868	<0.0001	4.46	<0.00001	5.17	0.297	<0.00001	<0.0001	0.00092	0.000746	0.00024	<0.003
	11-Sep-14	Normal	0.0361	-	0.000431	0.00032	<0.3	0.79	<0.0001	4.5	<0.00001	4.75	0.285	<0.00001	<0.0001	<0.0003	0.000665	0.00018	<0.003
	18-Sep-14	Normal	0.0249	-	0.000461	0.00039	<0.3	0.797	<0.0001	4.36	<0.00001	4.79	0.26	<0.00001	<0.0001	<0.0003	0.000541	0.0002	<0.003
	22-Sep-14	Normal	0.0254	<5.0E-7	0.000479	0.0004	<0.3	0.784	<0.0001	4.26	<0.00001	4.82	0.28	<0.00001	0.00011	<0.0003	0.000555	0.00034	<0.003
	25-Sep-14	Normal	0.0243	-	0.000515	0.0004	<0.3	0.857	<0.0001	5.17	<0.00001	5.1	0.286	<0.00001	<0.0001	<0.0003	0.000644	0.00044	<0.003
	29-Sep-14	Normal	0.0252	5.6E-7	0.000384	0.00041	<0.3	0.843	<0.0001	5.12	<0.00001	4.35	0.243	<0.00001	<0.0001	0.00035	0.000488	0.00015	<0.003
PLC-US-1	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-US-2	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-US-3	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLC-US-4	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	Organics			Anions and Nutrients																							
	Hydrocarbons, Recoverable (I.R.)	BOD	Phenols (4AAP)	Alkalinity (T) as CaCO3	Ammonia	Bicarbonate	Carbonate	Chloride	Electrical Conductivity (lab)	Hydroxide	Ionic Balance	Kjeldahl Nitrogen Total	Nitrate (as N)	Nitrite (as N)	Nitrogen (Total Oxidised)	pH (Lab)	Phosphorus	Phosphorus (Filtered)	Sulphate	Sulphide	Hardness as CaCO3	Total Dissolved Solids	Aluminium (Filtered)	Antimony (Filtered)	Arsenic (Filtered)	Barium (Filtered)	Beryllium (Filtered)
	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mS/cm	mg/L	%	mg/L	mg/L	mg/L	mg/L	pH	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDL	1	2	1	2	0.05	5	5	0.5	0.0002	5		0.2	0.05	0.02	0.05	0.1	0.001	0.001	0.5	0.0015			0.001	0.0001	0.0001	0.00005	0.0001

Location	Date	Sample Type																										
PLC-US-5	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Dissolved Metals

	Bismuth (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Calcium (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Lithium (Filtered)	Magnesium (Filtered)	Manganese (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Phosphorus (Filtered)	Potassium (Filtered)	Selenium (Filtered)	Silicon (Filtered)	Silver (Filtered)	Sodium (Filtered)	Strontium (Filtered)	Thallium (Filtered)	Tin (Filtered)
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDL	0.00005	0.01	0.00001	0.02	0.0001	0.0001	0.0001	0.01	0.00005	0.003	0.005	0.00005	0.00005	0.0001	0.3	0.05	0.0001	0.05	0.00001	0.05	0.0001	0.00001	0.0001

Location	Date	Sample Type																					
PLC-US-5	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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				/ Inorganic		Physical Tests																		
Titanium (Filtered)	Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)	Dissolved Organic Carbon (Filtered)	TOC	Colour	Total Dissolved Solids (Filtered)	Total Suspended Solids	Turbidity	Benzo[b+j]fluoranthene	C4 Benzantracenes/Chrysenes	C4 Dibenzothiophenes	C4 Fluoranthenes/Pyrenes	C4 Naphthalenes	C4 Phenanthrenes/Anthracenes	Biphenyl	1-Methylnaphthalene	2-methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Acridine
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	Colour units	mg/L	mg/L	NTU	µg/L	ug/L	ug/L	ug/L	ug/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MDL	0.0003	0.00001	0.0001	0.001	1	1	2	10	3	0.1	0.01	0.04	0.04	0.04	0.04	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.02

Location	Date	Sample Type																							
PLC-US-5	11-Sep-14	Normal	-	-	-	-	-	-	4450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Polycyclic Aromatic Hydrocarbons

	Benzo(e)pyrene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	C1 Acenaphthenes	C1 Benz(a)Anthracenes/Chrysenes	C1 Benzofluoranthenes/Benzopyrenes	C1 Biphenyls	C1 Dibenzothiophenes	Chrysene	C1 Fluoranthenes/Pyrenes	C1 Fluorenes	C1 Phenanthrenes/Anthracenes	Dibenz(a,h)anthracene	Dibenzothiophene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Perylene	Phenanthrene	Pyrene	Quinoline	Retene	C2 Benzofluoranthenes/Benzopyrenes	C2 Biphenyls	C2 Dibenzothiophenes	C2 Fluoranthenes/Pyrenes	C2 Naphthalenes	C2 Phenanthrenes/Anthracenes
	µg/L	µg/L	µg/L	ug/L	ug/L	ug/L	ug/L	ug/L	µg/L	ug/L	ug/L	ug/L	µg/L	ug/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MDL	0.01	0.01	0.01	0.04	0.04	0.04	0.04	0.04	0.01	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.02	0.01	0.02	0.01	0.04	0.04	0.04	0.04	0.04	0.04

Location	Date	Sample Type																													
PLC-US-5	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	C2 Fluorenes	C2 subd B(a)Anthracenes/Chrysenes	C3 Benzantracenes/Chrysenes	C3 Dibenzothiophenes	C3 Fluoranthenes/Pyrenes	C3 Fluorenes	C3 Naphthalenes	C3 Phenanthrenes/Anthracenes	Aluminium	Antimony	Arsenic	Barium	Beryllium	Bismuth	Boron	Cadmium	Calcium	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Lithium	Magnesium
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDL	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.003	0.0001	0.0001	0.00005	0.0001	0.00005	0.01	0.00001	0.02	0.0001	0.0001	0.0001	0.01	0.00005	0.005	0.005

Location	Date	Sample Type																						
PLC-US-5	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Total Metals																	
	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium	Strontium	Thallium	Tin	Titanium	Uranium	Vanadium	Zinc
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MDL	0.00005	5.0E-7	0.00005	0.0001	0.3	0.05	0.0001	0.05	0.00001	0.05	0.0001	0.00001	0.0001	0.0003	0.00001	0.0001	0.003

Location	Date	Sample Type																
PLC-US-5	11-Sep-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-