

Obed Mountain Mine  
Water Quality  
August 2014

			Aggregate Organic																				Anions and Nutrients													
Location	Date	Sample Type	Hydrocarbons, Recoverable (I.R.)	BOD	Phenols (4AAP)	Alkalinity (T) as CaCO3	Ammonia	Bicarbonate	Carbonate	Chloride, Soluble	Electrical Conductivity (lab)	Hydroxide	Ionic Balance	Kjeldahl Nitrogen Total	Nitrate (as N)	Nitrate + Nitrite-N	Nitrite (as N)	pH (Lab)	Phosphorus	Phosphorus (Filtered)	Sulfur (as Sulfate), Soluble	Sulfate as S	Sulphide	Hardness as CaCO3	Total Dissolved Solids	Aluminium (Filtered)	Antimony (Filtered)	Arsenic (Filtered)	Barium (Filtered)							
			mg/L	mg/L	µg/L	mg/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					
MDL			1	2	1	2	0.05	5	5	0.1	0.0002	5		0.2	0.05	0.05	0.02	0.1	0.001	0.001	0.5	0.5	0.0015			0.001	0.0001	0.0001	0.00005							
Blanks	05-Aug-14	Field Blank	<1	<2	<1	<2	<0.05	<5	<5	<0.5	0.00113	<5	-	<0.2	<0.05	<0.054	<0.02	5.61	<0.001	<0.001	-	<0.5	<0.0015	<1	<1	<0.001	<0.0001	<0.0001	<0.00005							
	19-Aug-14	Trip Blank	-	<2	<1	<2	<0.05	<5	<5	<0.5	0.00145	<5	-	<0.2	<0.05	<0.054	<0.02	5.14	<0.001	<0.001	-	<0.5	<0.0015	<1	<1	<0.001	<0.0001	<0.0001	0.000095							
APC	05-Aug-14	Normal	<1	<2	1.4	286	<0.05	328	10.7	1.84	0.693	<5	96.6	<0.2	<0.05	<0.054	<0.02	8.5	0.0048	0.0019	-	91.5	<0.0015	245	408	0.0052	<0.0001	0.0004	0.124							
	08-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0051	<0.0001	0.00046	0.0977						
	11-Aug-14	Normal	<1	<2	<1	291	<0.05	347	<5	1.44	0.768	<5	105	<0.2	<0.05	<0.054	<0.02	8.37	0.0075	0.0048	-	121	<0.0015	254	465	-	-	-	-							
	13-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0096	0.00011	0.00048	0.115							
	19-Aug-14	Normal	<1	<2	<1	293	<0.05	354	<5	1.42	0.781	<5	103	<0.2	<0.05	<0.054	<0.02	8.32	0.0066	0.0033	-	128	<0.0015	254	475	0.004	<0.0001	0.00047	0.106							
	21-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0236	<0.0001	0.00051	0.115							
	26-Aug-14	Normal	<1	<2	<1	307	<0.05	357	8.8	1.55	0.816	<5	105	<0.2	<0.05	<0.054	<0.02	8.48	0.0033	0.0025	-	136	<0.0015	272	506	0.0029	<0.0001	0.00042	0.107							
	29-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0032	<0.0001	0.00047	0.105							
ATR HWY43BR	28-Aug-14	Normal	1.6	<2	<1	108	<0.05	119	6.2	1.11	0.254	<5	89	<0.2	<0.05	<0.054	<0.02	8.38	0.0145	0.0031	36.7	-	<0.0015	123	150	0.0127	<0.0001	0.00016	0.0451							
ATR-AT1	14-Aug-14	Normal	<1	<2	<1	98.1	<0.05	120	<5	1.12	0.243	<5	103	<0.2	<0.05	<0.054	<0.02	8.27	0.0158	0.0022	-	22.7	<0.0015	113	130	0.0072	<0.0001	0.00043	0.0507							
ATR-CON	08-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0224	<0.0001	<0.0001	0.029							
	19-Aug-14	Normal	<1	<2	<1	82.4	<0.05	101	<5	<0.5	0.221	<5	101	<0.2	<0.05	<0.054	<0.02	8.02	0.047	0.0043	-	27.5	<0.0015	108	117	0.025	<0.0001	<0.0001	0.0282							
	21-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.266	<0.0001	0.00017	0.0369							
	26-Aug-14	Normal	<1	<2	<1	88.5	<0.05	108	<5	1.03	0.255	<5	104	<0.2	<0.05	<0.054	<0.02	8.17	0.027	0.0052	-	36.2	<0.0015	126	138	0.0218	<0.0001	0.00011	0.0377							
ATR-D1	05-Aug-14	Normal	<1	<2	4.4	79.9	<0.05	97.4	<5	0.52	0.22	<5	96.8	<0.2	<0.05	<0.054	<0.02	8.19	0.023	0.0014	-	28	<0.0015	102	114	0.0208	<0.0001	<0.0001	0.0312							
	08-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.024	<0.0001	<0.0001	0.0302							
	11-Aug-14	Normal	<1	<2	1.7	82.8	<0.05	101	<5	0.65	0.231	<5	98.6	<0.2	<0.05	<0.054	<0.02	8.21	0.0156	0.0023	-	30.2	<0.0015	109	121	-	-	-	-							
	13-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0233	<0.0001	<0.0001	0.0354							
	19-Aug-14	Normal	<1	<2	<1	81.2	<0.05	99	<5	<0.5	0.221	<5	102	<0.2	<0.05	<0.054	<0.02	7.98	0.058	0.0035	-	27.7	<0.0015	108	116	0.0351	<0.0001	<0.0001	0.0297							
	21-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.285	<0.0001	0.00016	0.0396							
	26-Aug-14	Normal	<1	<2	<1	86.1	<0.05	105	<5	1.02	0.251	<5	103	<0.2	<0.05	<0.054	<0.02	8.14	0.023	0.0048	-	36	<0.0015	123	135	0.019	<0.0001	<0.0001	0.0363							
	29-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0212	<0.0001	0.0001	0.036							
ATR-D2	05-Aug-14	Normal	<1	<2	3.8	79.7	<0.05	97.2	<5	<0.5	0.217	<5	100	<0.2	<0.05	<0.054	<0.02	8.15	0.0263	0.0011	-	27.6	<0.0015	105	114	0.0506	<0.0001	0.0001	0.0314							
	08-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0256	<0.0001	<0.0001	0.0293							
	11-Aug-14	Normal	<1	<2	<1	82.6	<0.05	101	<5	0.62	0.229	<5	101	<0.2	<0.05	<0.054	<0.02	8.17	0.0184	0.0089	-	29.4	<0.0015	111	121	-	-	-	-							
	13-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0189	<0.0001	<0.0001	0.0351							
	19-Aug-14	Normal	<1	<2	<1	81.5	<0.05	99.4	<5	<0.5	0.219	<5	103	<0.2	<0.05	<0.054	<0.02	7.99	0.0691	0.0035	-	27.6	<0.0015	109	117	0.039	<0.0001	<0.0001	0.0288							
	21-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0455	<0.0001	<0.0001	0.0293							
	26-Aug-14	Normal	<1	<2	<1	86.6	<0.05	106	<5	1.02	0.25	<5	103	<0.2	<0.05	<0.054	<0.02	8.14	0.0191	0.0036	-	35.6	<0.0015	123	135	0.0169	<0.0001	<0.0001	0.0356							
	29-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0166	<0.0001	0.00012	0.0364							

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			Dissolved Metals																																																																																																																																																																																																	
			Beryllium (Filtered)	Bismuth (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Calcium, Soluble (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Lithium (Filtered)	Magnesium, Soluble (Filtered)	Manganese (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Phosphorus (Filtered)	Potassium (Filtered)	Selenium (Filtered)	Silicon (Filtered)	Silver (Filtered)	Sodium, Soluble (Filtered)	Strontium (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			0.0001	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																																																																																																																																																																												
Location	Date	Sample Type																																																																																																																																																																																																		
Blanks	05-Aug-14	Field Blank	<0.0005	<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	19-Aug-14	Trip Blank	<0.0005	<0.00005	<0.01	<0.00001	<0.5	<0.0001	<0.0001	<0.0001	<0.01	<0.00005	<0.003	<0.1	0.00008	<0.00005	<0.0001	<0.3	<0.5	<0.0001	<0.05	<0.00001	<1	0.00032																																																																																																																																																				
	APC	05-Aug-14	Normal	<0.0005	<0.00005	0.022	<0.00001	62.3	<0.0001	<0.0001	0.0004	<0.01	<0.00005	0.0232	21.7	0.0186	0.00155	0.00074	<0.3	1.71	0.00022	4.05	<0.00001	57.3	0.682	08-Aug-14	Normal	<0.0005	<0.00005	0.043	<0.00001	-	<0.0001	<0.0001	0.00052	<0.01	<0.00005	0.0316	-	0.00033	0.00182	0.00069	<0.3	-	0.00028	3.36	<0.00001	-	0.729	11-Aug-14	Normal	-	-	-	-	59.8	-	-	-	-	-	-	25.4	-	-	-	-	-	2.34	-	-	-	80.1	-	13-Aug-14	Normal	<0.0005	<0.00005	0.04	<0.00001	-	<0.0001	<0.0001	0.00034	<0.01	<0.00005	0.0355	-	0.000366	0.00187	0.00072	<0.3	-	0.00034	3.78	<0.00001	-	0.802	19-Aug-14	Normal	<0.0005	<0.00005	0.045	<0.00001	58	<0.0001	<0.0001	0.00038	<0.01	<0.00005	0.0365	26.4	0.0262	0.00197	0.00068	<0.3	2.43	0.00042	3.4	<0.00001	83.4	0.821	21-Aug-14	Normal	<0.0001	<0.00005	0.047	<0.00001	61.8	<0.0001	0.00011	0.00035	0.171	<0.00005	0.0383	26.9	0.0873	0.00176	0.00064	<0.3	2.3	0.00039	3.85	<0.00001	83.4	0.798	26-Aug-14	Normal	<0.0005	<0.00005	0.045	<0.00001	61.3	<0.0001	<0.0001	0.00031	<0.01	<0.00005	0.0339	28.8	0.00916	0.00191	0.00068	<0.3	2.34	0.00035	3.74	<0.00001	91.7	0.797	29-Aug-14	Normal	<0.0001	<0.00005	0.048	<0.00001	57.2	<0.0001	<0.0001	0.00032	<0.01	<0.00005	0.0378	29.1	0.000211	0.0019	0.00061	<0.3	2.38	0.00028	3.83	<0.00001	94.7	0.831		
ATR HWY43BR		28-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	34.2	<0.0001	<0.0001	0.00018	<0.01	<0.00005	<0.003	9.23	0.000157	0.000701	0.0003	<0.3	0.52	0.00016	1.18	<0.00001	3.4	0.326																																																																																																																																																																											
ATR-AT1		14-Aug-14	Normal	<0.0005	<0.00005	<0.01	0.000017	32.5	<0.0001	<0.0001	0.00055	<0.01	<0.00005	0.0046	7.84	0.000278	0.000675	0.00068	<0.3	0.96	0.00012	1.29	<0.00001	6	0.238																																																																																																																																																																											
ATR-CON		08-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.00021	<0.01	<0.00005	<0.003	-	0.000197	0.000436	0.00023	<0.3	-	0.00011	1.01	<0.00001	-	0.254	19-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	29.7	<0.0001	<0.0001	0.00018	<0.01	<0.00005	<0.003	8.13	0.000213	0.000427	0.00018	<0.3	<0.5	0.00014	1.07	<0.00001	2.1	0.254	21-Aug-14	Normal	<0.0001	<0.00005	<0.01	<0.00001	40.3	0.00036	0.00041	0.00067	0.493	0.000673	<0.003	9.11	0.0246	0.000159	0.00062	<0.3	0.421	0.00014	1.43	<0.00001	2.42	0.262	26-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	34.3	<0.0001	<0.0001	0.00023	<0.01	<0.00005	<0.003	9.9	0.000243	0.00057	0.00021	<0.3	<0.5	0.00015	1.29	<0.00001	3.1	0.296																																																																																																			
		ATR-D1	05-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	28.3	<0.0001	<0.0001	0.00016	<0.01	<0.00005	<0.003	7.63	0.000122	0.000445	0.00019	<0.3	<0.5	0.00012	1.16	<0.00001	1.9	0.244	08-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.00029	<0.01	<0.00005	<0.003	-	0.000301	0.00045	0.00025	<0.3	-	0.00012	0.987	<0.00001	-	0.251	11-Aug-14	Normal	-	-	-	-	30.3	-	-	-	-	-	-	8	-	-	-	-	-	<0.5	-	-	-	2.3	-	13-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.0002	<0.01	<0.00005	<0.003	-	0.000234	0.000474	0.00023	<0.3	-	0.00015	1.06	<0.00001	-	0.276	19-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	29.7	<0.0001	<0.0001	0.00022	<0.01	<0.00005	<0.003	8.24	0.000204	0.000434	0.00018	<0.3	<0.5	0.00015	1.09	<0.00001	2	0.248	21-Aug-14	Normal	<0.0001	<0.00005	<0.01	<0.00001	41.8	0.00035	0.00045	0.00068	0.53	0.000738	<0.003	8.86	0.0264	0.000147	0.00064	<0.3	0.413	0.00012	1.34	<0.00001	2.16	0.263	26-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	33.3	<0.0001	<0.0001	0.00018	<0.01	<0.00005	<0.003	9.58	0.000171	0.000551	0.00022	<0.3	<0.5	0.00016	1.2	<0.00001	3	0.297	29-Aug-14	Normal	<0.0001	<0.00005	<0.01	<0.00001	32.9	<0.0001	<0.0001	0.0002	<0.01	<0.00005	<0.003	9.29	0.000172	0.000522	0.00023	<0.3	0.402	0.00013	1.13	<0.00001	2.66	0.305	
			ATR-D2	05-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	29.4	<0.0001	<0.0001	0.00021	0.013	<0.00005	<0.003	7.58	0.000231	0.000425	0.00024	<0.3	<0.5	0.00011	1.2	<0.00001	1.9	0.245	08-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.00023	<0.01	<0.00005	<0.003	-	0.000176	0.000413	0.00025	<0.3	-	0.00011	0.961	<0.00001	-	0.245	11-Aug-14	Normal	-	-	-	-	31	-	-	-	-	-	-	8.21	-	-	-	-	-	<0.5	-	-	-	2.2	-	13-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.00031	<0.01	<0.00005	<0.003	-	0.000211	0.000467	0.00022	<0.3	-	0.00012	1.05	<0.00001	-	0.276	19-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	30.5	<0.0001	<0.0001	0.00018	<0.01	<0.00005	<0.003	8	0.00021	0.00046	0.00018	<0.3	<0.5	0.00012	1.06	<0.00001	2.1	0.257	21-Aug-14	Normal	<0.0001	<0.00005	<0.01	<0.00001	29.4	<0.0001	<0.0001	0.00015	0.011	<0.00005	<0.003	7.88	0.000212	0.000423	0.00015	<0.3	0.371	0.00012	1.13	<0.00001	2.19	0.247	26-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	33.5	<0.0001	<0.0001	0.00018	<0.01	<0.00005	<0.003	9.53	0.000177	0.000524	0.0002	<0.3	<0.5	0.00013	1.21	0.00015	3	0.293	29-Aug-14	Normal	<0.0001	<0.00005	<0.01	<0.00001	32.1	<0.0001	<0.0001	0.00034	<0.01	<0.00005	<0.003	9.38	0.000096	0.000529	0.00019	<0.3	0.405	0.00016	1.16	<0.00001	2.78	0.307

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			/ Inorganic						Physical Tests																				
			Thallium (Filtered)	Tin (Filtered)	Titanium (Filtered)	Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)	Dissolved Organic Carbon (Filtered)	TOC	Colour	Total Dissolved Solids (Filtered)	Total Suspended Solids	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	mg/L	mg/L	Colour units	mg/L	mg/L	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			0.00001	0.0001	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	
Location	Date	Sample Type																											
Blanks	05-Aug-14	Field Blank	<0.00005	<0.0001	<0.0003	<0.00001	<0.0001	<0.001	<1	<1	2.1	<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	
	19-Aug-14	Trip Blank	<0.00005	<0.0001	<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-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.0026	0.00018	0.0035	4.7	4.3	15.3	434	<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	
	08-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.00304	0.00023	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-Aug-14	Normal	-	-	-	-	-	-	4.4	4.2	10.6	481	<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	
	13-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.00293	0.00021	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	
	19-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.00306	0.00023	<0.001	3.9	3.8	11	493	<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	
	21-Aug-14	Normal	<0.00001	<0.0001	0.00092	0.00315	0.00034	<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	
	26-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.00321	0.00021	<0.001	3.5	3.4	7.5	538	<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-Aug-14	Normal	<0.00001	<0.0001	<0.0003	0.00345	0.00031	<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 HWY43BR	28-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000431	<0.0001	<0.001	<1	1	<5	153	<3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ATR-AT1	14-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000365	0.00018	0.001	3.8	3.6	10.5	154	<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	08-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.00033	<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	
	19-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000323	<0.0001	<0.001	1.5	1.1	<2	125	73	<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	
	21-Aug-14	Normal	<0.00001	<0.0001	0.00075	0.000353	0.00032	0.0024	-	-	-	-	-	<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	
	26-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000381	<0.0001	<0.001	1.8	1.7	5.3	159	44.3	<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-D1	05-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.00034	<0.0001	<0.001	1.5	1.3	5	145	43.3	<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	
	08-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000338	<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	
	11-Aug-14	Normal	-	-	-	-	-	-	1.5	1.4	3	126	26.9	<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	
	13-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000326	<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	
	19-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000318	<0.0001	0.0032	1.4	1.2	<2	140	162	<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	
	21-Aug-14	Normal	<0.00001	<0.0001	0.00069	0.000351	0.00029	0.0017	-	-	-	-	-	<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	
	26-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000368	<0.0001	<0.001	1.7	1.6	4.6	159	32.7	<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	
29-Aug-14	Normal	<0.00001	<0.0001	<0.0003	0.000366	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		
ATR-D2	05-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000344	0.0001	0.0012	1.4	1.2	3.5	133	51.3	<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	
	08-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000328	<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	
	11-Aug-14	Normal	-	-	-	-	-	-	1.5	1.3	<2	127	31.7	<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	
	13-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000318	<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	
	19-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000314	<0.0001	0.0029	1.5	1.3	<2	135	170	<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	
	21-Aug-14	Normal	<0.00001	<0.0001	<0.0003	0.000326	<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	
	26-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000371	<0.0001	<0.001	1.7	1.5	5.6	156	32	<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-Aug-14	Normal	<0.00001	<0.0001	<0.0003	0.000386	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		



Obed Mountain Mine  
Water Quality  
August 2014

			C2 Phenanthrenes/Anthracenes	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, Soluble	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Lithium	
MDL			0.04	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	
Location	Date	Sample Type																									
Blanks	05-Aug-14	Field Blank	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.003	<0.0001	<0.0001	0.128	<0.0001	<0.00005	<0.01	<0.00001	<0.02	<0.0001	<0.0001	<0.0001	<0.0001	<0.01	<0.00005	<0.005
	19-Aug-14	Trip Blank	<0.04	<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	<0.0001	<0.01	<0.00005	<0.005
APC	05-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0402	<0.0001	0.00057	0.131	<0.0001	<0.00005	0.033	<0.00001	58.6	0.00011	0.00013	0.00032	0.244	<0.00005	0.0227	
	08-Aug-14	Normal	-	-	-	-	-	-	-	-	-	0.325	0.00012	0.00075	0.12	<0.0001	<0.00005	0.041	0.000013	60	0.00046	0.00031	0.00082	0.661	0.000348	0.037	
	11-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0302	0.0001	0.00055	0.121	<0.0001	<0.00005	0.039	<0.00001	59.7	<0.0001	0.0001	0.00042	0.192	<0.00005	0.0335	
	13-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0377	<0.0001	0.00057	0.123	<0.0001	<0.00005	0.041	<0.00001	56.7	0.0001	0.00011	0.00042	0.214	<0.00005	0.0301	
	19-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0567	0.00011	0.00061	0.12	<0.0001	<0.00005	0.043	<0.00001	55.1	0.00012	0.00012	0.0015	0.207	0.000178	0.034	
	21-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.031	<0.0001	0.00054	0.117	<0.0001	<0.00005	0.04	<0.00001	58.8	<0.0001	0.00011	0.00035	0.188	<0.00005	0.0332	
	26-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0304	<0.0001	0.00054	0.114	<0.0001	<0.00005	0.044	<0.00001	56.6	<0.0001	<0.0001	0.00032	0.155	<0.00005	0.0388	
29-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0294	<0.0001	0.00053	0.114	<0.0001	<0.00005	0.046	<0.00001	57.7	<0.0001	<0.0001	0.00034	0.136	<0.00005	0.0365		
ATR HWY43BR	28-Aug-14	Normal	-	-	-	-	-	-	-	-	-	0.394	<0.0001	0.00024	0.0518	<0.0001	<0.00005	<0.01	<0.00001	37.6	0.00055	0.00024	0.0006	0.464	0.000311	<0.005	
ATR-AT1	14-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.153	<0.0001	0.00061	0.0572	<0.0001	<0.00005	<0.01	0.000015	34	0.00025	0.00019	0.00074	0.297	0.000223	<0.005	
ATR-CON	08-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.581	<0.0001	0.00029	0.04	<0.0001	<0.00005	<0.01	<0.00001	38.1	0.0008	0.00051	0.0009	0.95	0.000658	<0.005	
	19-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	1.42	<0.0001	0.00058	0.0502	0.0001	<0.00005	<0.01	0.000016	50.4	0.00197	0.00124	0.00206	2.29	0.00143	<0.005	
	21-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.831	<0.0001	0.00038	0.0432	<0.0001	<0.00005	<0.01	<0.00001	39.4	0.00125	0.0007	0.00124	1.32	0.000871	<0.005	
	26-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.636	<0.0001	0.00036	0.0453	<0.0001	<0.00005	<0.01	0.000011	40.9	0.00087	0.00046	0.00099	0.968	0.000593	<0.005	
ATR-D1	05-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.726	<0.0001	0.00045	0.0437	<0.0001	<0.00005	<0.01	<0.00001	36.8	0.00103	0.0006	0.00102	1.24	0.000709	<0.005	
	08-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.663	<0.0001	0.00035	0.0424	<0.0001	<0.00005	<0.01	<0.00001	38.2	0.001	0.00057	0.001	1.08	0.000714	<0.005	
	11-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.259	<0.0001	0.00017	0.0376	<0.0001	<0.00005	<0.01	<0.00001	33.4	0.00037	0.00024	0.00053	0.399	0.000387	<0.005	
	13-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.414	<0.0001	0.00024	0.0405	<0.0001	<0.00005	<0.01	0.000026	33.2	0.00055	0.00033	0.00064	0.603	0.000453	<0.005	
	19-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	1.46	<0.0001	0.00062	0.0523	<0.0001	<0.00005	<0.01	0.000024	53.8	0.00202	0.00134	0.00225	2.43	0.00162	<0.005	
	21-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.812	<0.0001	0.00038	0.0421	<0.0001	<0.00005	<0.01	<0.00001	41.4	0.00116	0.00074	0.00125	1.29	0.000889	<0.005	
	26-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.514	<0.0001	0.00033	0.0426	<0.0001	<0.00005	<0.01	<0.00001	39.4	0.00072	0.00037	0.00077	0.755	0.000459	<0.005	
29-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.482	<0.0001	0.00026	0.0411	<0.0001	<0.00005	<0.01	<0.00001	33.5	0.00067	0.00033	0.0007	0.696	0.000426	<0.005		
ATR-D2	05-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.785	<0.0001	0.00042	0.0464	<0.0001	<0.00005	<0.01	<0.00001	40.6	0.00107	0.00068	0.00112	1.32	0.000853	<0.005	
	08-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.908	<0.0001	0.00038	0.044	<0.0001	<0.00005	<0.01	<0.00001	39.7	0.0012	0.0007	0.00122	1.38	0.000874	<0.005	
	11-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.306	<0.0001	0.00022	0.0383	<0.0001	<0.00005	<0.01	<0.00001	33.3	0.00044	0.00028	0.00062	0.482	0.000427	<0.005	
	13-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.772	<0.0001	0.00027	0.0427	<0.0001	<0.00005	<0.01	<0.00001	33.8	0.00061	0.00036	0.0007	0.678	0.000478	<0.005	
	19-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	2.26	<0.0001	0.00066	0.0573	0.00012	<0.00005	<0.01	0.000026	54.7	0.00297	0.00144	0.00234	2.57	0.00181	<0.005	
	21-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.765	<0.0001	0.00038	0.0427	<0.0001	<0.00005	<0.01	<0.00001	41.1	0.0011	0.0008	0.00131	1.31	0.000956	<0.005	
	26-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.567	<0.0001	0.00031	0.0443	<0.0001	<0.00005	<0.01	<0.00001	41.7	0.00079	0.00041	0.00082	0.825	0.000506	<0.005	
29-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.435	<0.0001	0.00024	0.0405	<0.0001	<0.00005	<0.01	<0.00001	34.2	0.00065	0.00028	0.00091	0.589	0.000384	<0.005		

Obed Mountain Mine  
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Total Metals																				
			Magnesium, Soluble	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium, Soluble	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			0.005	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																		
Blanks	05-Aug-14	Field Blank	<0.005	<0.00005	<5.0E-7	<0.00005	<0.0001	<0.3	<0.05	<0.0001	<0.05	<0.00001	<0.05	0.643	<0.00001	<0.0001	<0.0003	<0.00001	<0.0001	<0.003
	19-Aug-14	Trip Blank	<0.005	<0.00005	<5.0E-7	<0.00005	<0.0001	<0.3	<0.05	<0.0001	<0.05	<0.00001	<0.05	<0.00001	<0.00001	<0.0001	<0.0003	<0.00001	<0.0001	<0.003
APC	05-Aug-14	Normal	20.3	0.109	5.5E-7	0.00159	0.00074	<0.3	1.77	0.00025	3.83	<0.00001	55.7	0.68	<0.00001	<0.0001	0.00067	0.00243	0.00077	<0.003
	08-Aug-14	Normal	24.3	0.113	-	0.00183	0.00128	<0.3	2.17	0.00031	4.07	<0.00001	82	0.784	0.000011	<0.0001	0.00559	0.0031	0.00109	<0.003
	11-Aug-14	Normal	25.3	0.0879	7.1E-7	0.00195	0.00077	<0.3	2.19	0.00039	3.67	<0.00001	81.1	0.773	<0.00001	<0.0001	0.00061	0.00345	0.00041	<0.003
	13-Aug-14	Normal	25.3	0.0808	-	0.00184	0.00069	<0.3	2.26	0.00039	3.57	<0.00001	79.8	0.77	<0.00001	<0.0001	0.00102	0.00337	0.00055	<0.003
	19-Aug-14	Normal	23.7	0.0828	7.6E-7	0.00202	0.00622	<0.3	2.37	0.00044	3.84	<0.00001	74.5	0.79	<0.00001	<0.0001	0.00096	0.00303	0.00052	0.0128
	21-Aug-14	Normal	26.9	0.0913	-	0.00186	0.00065	<0.3	2.41	0.00042	3.95	<0.00001	82.3	0.761	<0.00001	<0.0001	0.00116	0.00294	0.00033	<0.003
	26-Aug-14	Normal	28.1	0.0757	5.7E-7	0.00181	0.00068	<0.3	2.51	0.00035	3.7	<0.00001	88.8	0.798	<0.00001	<0.0001	0.0008	0.00338	0.00031	<0.003
	29-Aug-14	Normal	29.8	0.0634	-	0.00165	0.00064	<0.3	2.28	0.00026	3.71	<0.00001	85.9	0.817	<0.00001	<0.0001	0.00125	0.00337	0.00034	<0.003
ATR HWY43BR	28-Aug-14	Normal	9.73	0.0144	-	0.000674	0.00063	<0.3	0.627	0.00018	2.44	<0.00001	3.61	0.334	<0.00001	<0.0001	0.00659	0.000424	0.00069	<0.003
ATR-AT1	14-Aug-14	Normal	8.38	0.0177	0.00000106	0.000644	0.00088	<0.3	1.03	0.00015	1.74	<0.00001	5.9	0.24	<0.00001	<0.0001	0.00177	0.000377	0.00078	<0.003
ATR-CON	08-Aug-14	Normal	8.71	0.021	-	0.000411	0.00099	<0.3	0.542	0.00014	1.84	<0.00001	2.14	0.278	<0.00001	<0.0001	0.00352	0.000357	0.00072	0.0041
	19-Aug-14	Normal	9.69	0.0489	0.00000245	0.000505	0.00261	<0.3	0.847	0.00016	3.04	<0.00001	2.04	0.289	0.00002	<0.0001	0.00553	0.000411	0.00167	0.0066
	21-Aug-14	Normal	9.04	0.0278	-	0.000462	0.00145	<0.3	0.693	0.00012	1.85	<0.00001	2.5	0.274	0.000012	<0.0001	0.00608	0.000365	0.00095	0.004
	26-Aug-14	Normal	9.82	0.025	0.00000133	0.00065	0.00111	<0.3	0.64	0.00018	2.09	<0.00001	3.13	0.335	0.000012	<0.0001	0.00591	0.000441	0.00109	0.0034
ATR-D1	05-Aug-14	Normal	8.89	0.0212	0.00000155	0.000491	0.00125	<0.3	0.636	0.00017	1.95	<0.00001	1.91	0.274	0.00002	<0.0001	0.004	0.000361	0.00128	0.0034
	08-Aug-14	Normal	8.61	0.0233	-	0.000386	0.0012	<0.3	0.568	0.00014	1.83	<0.00001	2.12	0.276	<0.00001	<0.0001	0.00414	0.000352	0.00082	0.0046
	11-Aug-14	Normal	9.03	0.0144	0.00000134	0.000401	0.00053	<0.3	0.469	0.00015	1.24	<0.00001	2.41	0.268	<0.00001	<0.0001	0.00158	0.000391	0.00043	<0.003
	13-Aug-14	Normal	8.88	0.0164	-	0.000453	0.00078	<0.3	0.513	0.00016	1.78	<0.00001	2.51	0.271	0.000011	<0.0001	0.00281	0.000389	0.00067	<0.003
	19-Aug-14	Normal	9.78	0.0574	0.00000414	0.000526	0.00289	<0.3	0.882	0.00015	3.19	<0.00001	1.96	0.306	0.000024	<0.0001	0.00641	0.000421	0.00186	0.007
	21-Aug-14	Normal	8.84	0.0289	-	0.000455	0.00145	<0.3	0.68	0.00015	1.79	<0.00001	2.35	0.276	0.000011	<0.0001	0.0051	0.000359	0.00096	0.0035
	26-Aug-14	Normal	10	0.0185	0.00000112	0.000604	0.00087	<0.3	0.619	0.00018	1.87	<0.00001	3.09	0.333	<0.00001	<0.0001	0.00414	0.000418	0.00092	<0.003
	29-Aug-14	Normal	8.64	0.0167	-	0.000532	0.00077	<0.3	0.585	0.00017	1.69	<0.00001	2.63	0.303	<0.00001	<0.0001	0.00386	0.000421	0.00081	<0.003
ATR-D2	05-Aug-14	Normal	9.07	0.0274	0.00000219	0.00047	0.00141	<0.3	0.651	0.00015	2.1	<0.00001	1.88	0.276	0.000014	<0.0001	0.00463	0.000371	0.00115	0.0039
	08-Aug-14	Normal	9.12	0.0304	-	0.000417	0.0014	<0.3	0.651	0.00013	2.24	<0.00001	2.04	0.282	0.000012	<0.0001	0.00666	0.000359	0.00108	0.0041
	11-Aug-14	Normal	8.88	0.0172	0.00000116	0.000423	0.0006	<0.3	0.482	0.00015	1.3	<0.00001	2.4	0.265	<0.00001	<0.0001	0.00243	0.000387	0.0005	<0.003
	13-Aug-14	Normal	9.28	0.0182	-	0.000462	0.00078	<0.3	0.562	0.00015	1.79	<0.00001	2.54	0.27	<0.00001	<0.0001	<0.005	0.000397	0.00076	<0.003
	19-Aug-14	Normal	10.4	0.0647	0.00000426	0.000497	0.0031	<0.3	1.27	0.00017	5.15	<0.00001	1.95	0.302	0.000033	<0.0001	0.0304	0.000438	0.00296	0.0077
	21-Aug-14	Normal	9.27	0.0326	-	0.000409	0.00148	<0.3	0.644	0.00014	1.69	<0.00001	2.23	0.278	0.000012	<0.0001	0.00751	0.000365	0.00092	0.0041
	26-Aug-14	Normal	9.96	0.0232	9.3E-7	0.000615	0.00093	<0.3	0.635	0.0002	1.91	<0.00001	2.96	0.338	0.00001	<0.0001	0.00439	0.000427	0.00106	0.0031
	29-Aug-14	Normal	9.09	0.0153	-	0.000586	0.00069	<0.3	0.568	0.00016	1.73	<0.00001	2.7	0.319	0.000011	<0.0001	0.00516	0.000432	0.00075	<0.003

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			Aggregate Organic			Anions and Nutrients																							
Location	Date	Sample Type	Hydrocarbons, Recoverable (I.R.)	BOD	Phenols (4AAP)	Alkalinity (T) as CaCO3	Ammonia	Bicarbonate	Carbonate	Chloride, Soluble	Electrical Conductivity (lab)	Hydroxide	Ionic Balance	Kjeldahl Nitrogen Total	Nitrate (as N)	Nitrate + Nitrite-N	Nitrite (as N)	pH (Lab)	Phosphorus	Phosphorus (Filtered)	Sulfur (as Sulfate), Soluble	Sulfate as S	Sulphide	Hardness as CaCO3	Total Dissolved Solids	Aluminium (Filtered)	Antimony (Filtered)	Arsenic (Filtered)	Barium (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	mg/L	pH	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	0.1	0.0002	5		0.2	0.05	0.05	0.02	0.1	0.001	0.001	0.5	0.5	0.0015			0.001	0.0001	0.0001	0.0005
ATR-FF-5	15-Aug-14	Normal	<1	<2	1.8	102	<0.05	124	<5	2.01	0.26	<5	105	<0.2	<0.05	<0.054	<0.02	8.31	0.0248	0.0028	-	25.8	<0.0015	120	140	0.0077	<0.0001	0.00052	0.0519
ATR-FF-6	15-Aug-14	Normal	<1	<2	<1	97.4	<0.05	119	<5	5.42	0.257	<5	103	0.23	<0.05	<0.054	<0.02	8.25	0.0419	0.0147	-	23.2	<0.0015	111	137	0.0076	<0.0001	0.00054	0.0468
ATR-FF-7	15-Aug-14	Normal	<1	<2	<1	101	<0.05	123	<5	9.81	0.276	<5	106	0.27	<0.05	<0.054	<0.02	8.2	0.0359	0.0063	-	21.7	<0.0015	117	147	0.0046	<0.0001	0.00062	0.0453
ATR-PLC	05-Aug-14	Normal	<1	<2	3.2	113	<0.05	136	<5	<0.5	0.27	<5	98.3	<0.2	<0.05	<0.054	<0.02	8.34	0.0141	0.0011	-	25.3	<0.0015	126	142	0.025	<0.0001	0.00016	0.041
	11-Aug-14	Normal	<1	<2	<1	131	<0.05	155	<5	0.55	0.305	<5	102	<0.2	<0.05	<0.054	<0.02	8.39	0.0126	0.0025	-	25.5	<0.0015	144	162	-	-	-	-
	13-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0205	<0.0001	<0.0001	0.0347
	29-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0167	<0.0001	0.00017	0.0466
ATR-US	05-Aug-14	Normal	<1	<2	<1	79.1	<0.05	96.5	<5	<0.5	0.218	<5	97.4	<0.2	<0.05	<0.054	<0.02	8.22	0.0163	0.0014	-	28.3	<0.0015	102	114	0.0221	<0.0001	<0.0001	0.0307
	08-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0286	<0.0001	<0.0001	0.0281
	11-Aug-14	Normal	<1	<2	<1	81.9	<0.05	100	<5	0.62	0.232	<5	99.9	<0.2	<0.05	<0.054	<0.02	8.24	0.0139	0.0015	-	31.2	<0.0015	111	122	-	-	-	-
		Field Duplicate	<1	<2	<1	81.9	<0.05	99.9	<5	0.63	0.232	<5	100	<0.2	<0.05	<0.054	<0.02	8.19	0.0149	0.0024	-	31.3	<0.0015	111	122	-	-	-	-
	13-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0213	<0.0001	<0.0001	0.0334
	19-Aug-14	Normal	<1	<2	<1	78.5	<0.05	95.8	<5	<0.5	0.214	<5	104	<0.2	<0.05	<0.054	<0.02	8.04	0.0392	0.0036	-	27.1	<0.0015	106	114	0.0272	<0.0001	<0.0001	0.0275
	21-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0282	<0.0001	<0.0001	0.0285
	26-Aug-14	Normal	<1	<2	1.6	86.6	<0.05	106	<5	1.52	0.254	<5	103	<0.2	<0.05	<0.054	<0.02	8.22	0.0211	0.0046	-	37.4	<0.0015	125	138	0.0158	<0.0001	<0.0001	0.0346
Field Duplicate		<1	<2	1.2	85	<0.05	104	<5	1.06	0.252	<5	105	<0.2	<0.05	<0.054	<0.02	8.14	0.0201	0.005	-	37	<0.0015	125	136	0.0184	<0.0001	0.0001	0.0362	
29-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.028	<0.0001	<0.0001	0.0337	
PLC-DS	05-Aug-14	Normal	<1	<2	<1	239	<0.05	262	14.9	<0.5	0.446	<5	99	<0.2	<0.05	<0.054	<0.02	8.66	0.0037	0.0012	-	14	<0.0015	221	251	0.003	<0.0001	0.00039	0.0816
	08-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0025	<0.0001	0.00041	0.073
	11-Aug-14	Normal	<1	<2	2.2	238	<0.05	270	10.1	<0.5	0.454	<5	102	<0.2	<0.05	<0.054	<0.02	8.54	0.0031	0.0022	-	14.2	<0.0015	225	253	-	-	-	-
	19-Aug-14	Normal	<1	<2	<1	241	<0.05	278	7.8	<0.5	0.463	<5	100	<0.2	<0.05	<0.054	<0.02	8.47	0.0033	0.0017	-	17	<0.0015	222	258	0.0023	<0.0001	0.00041	0.0801
	21-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0177	<0.0001	0.0004	0.0839
	26-Aug-14	Normal	<1	<2	1.1	246	<0.05	278	11.1	<0.5	0.467	<5	105	<0.2	<0.05	<0.054	<0.02	8.56	0.0015	0.0014	-	15.6	<0.0015	238	265	0.0022	<0.0001	0.00035	0.0816
	29-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0012	<0.0001	0.00032	0.0778
PLC-DS2	13-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0028	<0.0001	0.00043	0.0798
PLC-US	05-Aug-14	Normal	<1	<2	2.3	237	<0.05	265	11.5	<0.5	0.419	<5	97	0.21	<0.05	<0.054	<0.02	8.56	0.0103	0.0046	-	2.15	<0.0015	220	229	0.0057	<0.0001	0.00053	0.0756
	08-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0049	<0.0001	0.00052	0.0702
	11-Aug-14	Normal	<1	<2	1	231	<0.05	274	<5	<0.5	0.421	<5	103	0.26	<0.05	<0.054	<0.02	8.38	0.009	0.0046	-	1.86	<0.0015	222	226	-	-	-	-
	13-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0054	<0.0001	0.00065	0.0821
	19-Aug-14	Normal	<1	<2	<1	240	<0.05	293	<5	<0.5	0.436	<5	102	<0.2	<0.05	<0.054	<0.02	8.27	0.01	0.0056	-	2.1	<0.0015	235	236	0.0046	<0.0001	0.00054	0.0757
	21-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0043	<0.0001	0.00054	0.078
	26-Aug-14	Normal	<1	<2	<1	244	<0.05	287	5.3	<0.5	0.44	<5	106	<0.2	<0.05	<0.054	<0.02	8.43	0.0097	0.0032	-	2.51	<0.0015	248	244	0.0039	<0.0001	0.00043	0.076

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			Dissolved Metals																						
			Beryllium (Filtered)	Bismuth (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Calcium, Soluble (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Lithium (Filtered)	Magnesium, Soluble (Filtered)	Manganese (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Phosphorus (Filtered)	Potassium (Filtered)	Selenium (Filtered)	Silicon (Filtered)	Silver (Filtered)	Sodium, Soluble (Filtered)	Strontium (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			0.0001	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	
Location	Date	Sample Type																							
ATR-FF-5	15-Aug-14	Normal	<0.0005	<0.00005	0.017	<0.00001	34.3	<0.0001	<0.0001	0.00052	<0.01	<0.00005	0.0064	8.38	0.000289	0.000705	0.00072	<0.3	1.03	0.00014	1.58	<0.00001	7.3	0.24	
ATR-FF-6	15-Aug-14	Normal	<0.0005	<0.00005	0.019	0.000012	31	<0.0001	<0.0001	0.00064	0.025	<0.00005	0.006	8.18	0.000415	0.000759	0.00091	<0.3	1.05	0.00015	1.91	<0.00001	9.7	0.21	
ATR-FF-7	15-Aug-14	Normal	<0.0005	<0.00005	0.023	<0.00001	33.1	<0.0001	<0.0001	0.00074	0.032	<0.00005	0.0071	8.31	0.000446	0.000731	0.00102	<0.3	1.06	0.00013	2.33	<0.00001	12.6	0.212	
ATR-PLC	05-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	35.7	<0.0001	<0.0001	0.00033	<0.01	<0.00005	<0.003	8.99	0.000346	0.000522	0.0003	<0.3	<0.5	0.00011	1.81	<0.00001	4.3	0.266	
	11-Aug-14	Normal	-	-	-	-	40.1	-	-	-	-	-	-	10.6	-	-	-	-	0.6	-	-	-	6.3	-	
	13-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.00021	<0.01	<0.00005	<0.003	-	0.000265	0.000519	0.00021	<0.3	-	0.00014	1.09	<0.00001	-	0.292	
	29-Aug-14	Normal	<0.0001	<0.00005	<0.01	<0.00001	41	<0.0001	<0.0001	0.00041	<0.01	<0.00005	0.0035	11.3	0.000102	0.000578	0.00025	<0.3	0.531	0.00014	1.97	<0.00001	6.33	0.311	
ATR-US	05-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	28.6	<0.0001	<0.0001	0.00039	<0.01	<0.00005	<0.003	7.4	0.000265	0.000419	0.00023	<0.3	<0.5	0.00012	1.16	<0.00001	1.8	0.242	
	08-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.00025	<0.01	<0.00005	<0.003	-	0.000284	0.000406	0.00024	<0.3	-	0.00011	0.997	<0.00001	-	0.242	
	11-Aug-14	Normal	-	-	-	-	30.8	-	-	-	-	-	-	8.2	-	-	-	-	<0.5	-	-	-	2.1	-	
		Field Duplicate	-	-	-	-	30.9	-	-	-	-	-	-	8.26	-	-	-	-	<0.5	-	-	-	2.2	-	
	13-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.00018	<0.01	<0.00005	<0.003	-	0.000197	0.000532	0.00022	<0.3	-	0.00013	1.08	<0.00001	-	0.276	
	19-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	29.8	<0.0001	<0.0001	0.00015	<0.01	<0.00005	<0.003	7.78	0.000288	0.000438	0.00018	<0.3	<0.5	0.00012	0.991	<0.00001	2	0.256	
	21-Aug-14	Normal	<0.0001	<0.00005	<0.01	<0.00001	30.4	<0.0001	<0.0001	0.00016	<0.01	<0.00005	<0.003	7.62	0.000148	0.000411	0.00014	<0.3	0.358	0.00012	1.06	<0.00001	2.06	0.252	
	26-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	33.6	<0.0001	<0.0001	0.00019	<0.01	<0.00005	<0.003	9.98	0.000226	0.000557	0.00023	<0.3	<0.5	0.00017	1.23	<0.00001	3.1	0.306	
Field Duplicate		<0.0005	<0.00005	<0.01	<0.00001	33.7	<0.0001	<0.0001	0.00018	<0.01	<0.00005	<0.003	9.93	0.000181	0.000534	0.00023	<0.3	<0.5	0.00016	1.24	<0.00001	2.9	0.296		
29-Aug-14	Normal	<0.0001	<0.00005	<0.01	<0.00001	31.2	<0.0001	<0.0001	0.00017	<0.01	<0.00005	<0.003	8.81	0.000145	0.000481	0.00017	<0.3	0.389	0.00017	1.13	<0.00001	2.45	0.293		
PLC-DS	05-Aug-14	Normal	<0.0005	<0.00005	0.011	<0.00001	64.4	<0.0001	<0.0001	0.00034	<0.01	<0.00005	0.0059	14.7	0.000251	0.000853	0.0005	<0.3	0.88	0.0001	4.26	<0.00001	13.4	0.348	
	08-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.00034	<0.01	<0.00005	0.0061	-	0.000326	0.000838	0.00048	<0.3	-	<0.0001	3.93	<0.00001	-	0.349	
	11-Aug-14	Normal	-	-	-	-	64.2	-	-	-	-	-	-	15.6	-	-	-	-	1	-	-	-	14.7	-	
	19-Aug-14	Normal	<0.0005	<0.00005	0.012	<0.00001	63.1	<0.0001	<0.0001	0.00028	<0.01	<0.00005	0.0077	15.7	0.000443	0.000896	0.00033	<0.3	0.96	<0.0001	4.14	<0.00001	16.3	0.367	
	21-Aug-14	Normal	<0.0001	<0.00005	0.011	<0.00001	67.1	<0.0001	<0.0001	0.00026	0.125	<0.00005	0.0072	15.9	0.0156	0.000787	0.00037	<0.3	0.93	0.00011	4.31	<0.00001	15.4	0.368	
	26-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	67.3	<0.0001	<0.0001	0.00025	<0.01	<0.00005	0.0062	16.9	0.000327	0.000896	0.00039	<0.3	0.93	<0.0001	4.01	<0.00001	16.7	0.358	
	29-Aug-14	Normal	<0.0001	<0.00005	<0.01	<0.00001	64.9	<0.0001	<0.0001	0.00032	<0.01	<0.00005	0.0073	17.1	0.000313	0.000892	0.00028	<0.3	0.943	0.0001	4.12	<0.00001	17	0.382	
PLC-DS2	13-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.00029	<0.01	<0.00005	0.0066	-	0.000294	0.000889	0.00045	<0.3	-	<0.0001	4.44	<0.00001	-	0.376	
PLC-US	05-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	65.3	<0.0001	<0.0001	0.00042	0.018	0.00006	0.0031	13.9	0.000422	0.000593	0.00063	<0.3	0.72	<0.0001	4.65	<0.00001	4.8	0.296	
	08-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.00047	0.025	<0.00005	<0.003	-	0.000615	0.000576	0.00063	<0.3	-	<0.0001	4.37	<0.00001	-	0.301	
	11-Aug-14	Normal	-	-	-	-	64.6	-	-	-	-	-	-	14.8	-	-	-	-	0.76	-	-	-	4.9	-	
	13-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	-	<0.0001	<0.0001	0.0003	0.034	<0.00005	0.0035	-	0.000356	0.00064	0.00061	<0.3	-	<0.0001	4.89	<0.00001	-	0.308	
	19-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	66.9	<0.0001	<0.0001	0.00025	0.018	<0.00005	0.0033	16.5	0.00162	0.000634	0.00048	<0.3	0.8	<0.0001	4.41	<0.00001	5.5	0.333	
	21-Aug-14	Normal	<0.0001	<0.00005	<0.01	<0.00001	73.2	<0.0001	<0.0001	0.00023	0.014	<0.00005	0.0042	16.2	0.000415	0.000643	0.00049	<0.3	0.804	<0.0001	4.65	<0.00001	5.58	0.326	
	26-Aug-14	Normal	<0.0005	<0.00005	<0.01	<0.00001	71.7	<0.0001	<0.0001	0.00027	0.011	<0.00005	0.0032	16.7	0.000563	0.00065	0.00042	<0.3	0.76	<0.0001	4.38	<0.00001	6	0.31	



Obed Mountain Mine  
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								/ Inorganic		Physical Tests																			
			Thallium (Filtered)	Tin (Filtered)	Titanium (Filtered)	Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)	Dissolved Organic Carbon (Filtered)	TOC	Colour	Total Dissolved Solids (Filtered)	Total Suspended Solids	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	mg/L	mg/L	Colour units	mg/L	mg/L	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			0.00001	0.0001	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	
Location	Date	Sample Type																											
ATR-FF-5	15-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000364	0.00025	<0.001	5	5	14.4	154	18.7	<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-FF-6	15-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000324	0.00033	0.0035	6.2	6.1	20.3	148	30.2	<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	
ATR-FF-7	15-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000329	0.00039	<0.001	7.9	7.5	25.6	150	16.9	<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-PLC	05-Aug-14	Normal	<0.00005	<0.0001	0.00045	0.000468	0.00011	0.0065	2.5	2.1	6.8	154	34	<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-Aug-14	Normal	-	-	-	-	-	-	2.6	2.5	5.8	173	14.4	<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	
	13-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000331	<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-Aug-14	Normal	<0.00001	<0.0001	<0.0003	0.000554	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	
ATR-US	05-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000335	<0.0001	0.0114	1.4	1.1	3.4	131	29.6	<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	
	08-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000317	<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	
	11-Aug-14	Normal	-	-	-	-	-	-	1.4	1.3	<2	124	25.9	<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	
		Field Duplicate	-	-	-	-	-	-	1.4	1.2	4.6	131	31.9	<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	
	13-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000318	<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	
	19-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000311	<0.0001	<0.001	1.4	1.1	<2	138	92.1	<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	
	21-Aug-14	Normal	<0.00001	<0.0001	<0.0003	0.000323	<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	
	26-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000387	<0.0001	<0.001	1.9	1.6	4	161	31.9	<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	
Field Duplicate		<0.00005	<0.0001	<0.0003	0.000387	<0.0001	<0.001	1.7	1.6	3.6	159	30.4	<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-Aug-14	Normal	<0.00001	<0.0001	0.00047	0.000371	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		
PLC-DS	05-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.00105	0.00023	<0.001	6	5.7	20.5	273	<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	
	08-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.00102	0.0002	<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-Aug-14	Normal	-	-	-	-	-	-	5.7	5.7	16.7	258	<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	
	19-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.00105	0.00022	<0.001	4.8	4.7	14.9	276	<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	
	21-Aug-14	Normal	<0.00001	<0.0001	0.00039	0.00108	0.00025	<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	
	26-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.00107	0.00018	<0.001	4.2	4.1	14.1	294	<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-Aug-14	Normal	<0.00001	<0.0001	<0.0003	0.00111	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	
PLC-DS2	13-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000977	0.00021	<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	
PLC-US	05-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000746	0.00024	0.0065	7.7	7.6	32.1	257	<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	
	08-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000777	0.0002	0.0032	-	-	-	-	-	<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-Aug-14	Normal	-	-	-	-	-	-	7.7	7.7	28	242	<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	
	13-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000813	0.00026	<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	
	19-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.00073	0.00021	<0.001	6.8	6.6	26.4	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	
	21-Aug-14	Normal	<0.00001	<0.0001	<0.0003	0.000875	0.00017	<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	
	26-Aug-14	Normal	<0.00005	<0.0001	<0.0003	0.000806	0.00015	<0.001	5.7	5.6	22.6	275	<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	



Obed Mountain Mine  
Water Quality  
August 2014

			C2 Phenanthrenes/Anthracenes	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, Soluble	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Lithium	
			ug/L	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	0.04	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	
Location	Date	Sample Type																									
ATR-FF-5	15-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.228	<0.0001	0.00078	0.0603	<0.0001	<0.00005	0.017	0.00001	33.8	0.00036	0.00028	0.00094	0.491	0.000319	0.0056	
ATR-FF-6	15-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.178	<0.0001	0.00077	0.0542	<0.0001	<0.00005	0.02	0.00002	33.6	0.0003	0.00032	0.00101	0.538	0.000369	0.0056	
ATR-FF-7	15-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.127	<0.0001	0.00082	0.0522	<0.0001	<0.00005	0.024	0.000018	33.3	0.00023	0.00026	0.00102	0.462	0.000269	0.0061	
ATR-PLC	05-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.399	<0.0001	0.00036	0.0492	<0.0001	<0.00005	<0.01	<0.00001	41.5	0.00059	0.00036	0.00068	0.675	0.000443	<0.005	
	11-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.153	<0.0001	0.00025	0.0539	<0.0001	<0.00005	<0.01	<0.00001	43.5	0.00022	0.00017	0.00045	0.267	0.000231	<0.005	
	13-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.461	<0.0001	0.00028	0.0422	<0.0001	<0.00005	<0.01	<0.00001	33.7	0.00064	0.00036	0.00069	0.693	0.000444	<0.005	
	29-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.421	<0.0001	0.00031	0.0515	<0.0001	<0.00005	<0.01	<0.00001	41.8	0.00056	0.0003	0.00065	0.613	0.000378	<0.005	
ATR-US	05-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.568	<0.0001	0.0003	0.0399	<0.0001	<0.00005	<0.01	<0.00001	36.4	0.00076	0.00042	0.00077	0.839	0.000528	<0.005	
	08-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.704	<0.0001	0.00038	0.0416	<0.0001	<0.00005	<0.01	<0.00001	38	0.00094	0.00063	0.00109	1.19	0.000789	<0.005	
	11-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.216	<0.0001	0.00019	0.0375	<0.0001	<0.00005	<0.01	<0.00001	33.4	0.00032	0.00021	0.0005	0.36	0.000344	<0.005	
		Field Duplicate	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.247	<0.0001	0.00019	0.0374	<0.0001	<0.00005	<0.01	<0.00001	31.9	0.00036	0.00024	0.00052	0.413	0.000363	<0.005	
	13-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0367	<0.0001	<0.0001	0.00248	<0.0001	<0.00005	<0.01	<0.00001	33.8	<0.0001	<0.0001	0.00012	0.051	0.000438	<0.005	
	19-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	1.11	<0.0001	0.00045	0.0445	<0.0001	<0.00005	<0.01	0.00001	41.4	0.00152	0.00094	0.00158	1.71	0.00113	<0.005	
	21-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.699	<0.0001	0.0003	0.0403	<0.0001	<0.00005	<0.01	<0.00001	38.1	0.00099	0.00068	0.00117	1.17	0.000824	<0.005	
	26-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.555	<0.0001	0.0003	0.0407	<0.0001	<0.00005	<0.01	<0.00001	39.1	0.0008	0.00038	0.00076	0.784	0.000466	<0.005	
Field Duplicate		<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.358	<0.0001	0.00024	0.0402	<0.0001	<0.00005	<0.01	<0.00001	40.3	0.00054	0.0003	0.00062	0.539	0.000403	<0.005		
29-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.927	<0.0001	0.0003	0.0433	<0.0001	<0.00005	<0.01	<0.00001	37.2	0.00114	0.00052	0.00099	1.1	0.000658	<0.005		
PLC-DS	05-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0157	<0.0001	0.00054	0.0871	<0.0001	<0.00005	0.01	<0.00001	64.8	<0.0001	<0.0001	0.0003	0.106	<0.00005	0.0064	
	08-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0229	<0.0001	0.00047	0.0831	<0.0001	<0.00005	<0.01	<0.00001	62.8	<0.0001	<0.0001	0.00031	0.124	<0.00005	0.0058	
	11-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.01	<0.0001	0.00043	0.0856	<0.0001	<0.00005	<0.01	<0.00001	61.4	<0.0001	<0.0001	0.00031	0.108	<0.00005	0.0062	
	19-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0085	<0.0001	0.00045	0.0861	<0.0001	<0.00005	0.011	<0.00001	63.8	<0.0001	<0.0001	0.0003	0.085	<0.00005	0.0071	
	21-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0148	<0.0001	0.00042	0.0836	<0.0001	<0.00005	<0.01	<0.00001	63.7	0.00017	<0.0001	0.00029	0.115	<0.00005	0.0061	
	26-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0066	<0.0001	0.00041	0.0811	<0.0001	<0.00005	<0.01	<0.00001	62.9	<0.0001	<0.0001	0.00022	0.081	<0.00005	0.0062	
	29-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0052	<0.0001	0.00032	0.0828	<0.0001	<0.00005	<0.01	<0.00001	63	<0.0001	<0.0001	0.00029	0.077	<0.00005	0.0061	
PLC-DS2	13-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0189	<0.0001	0.00045	0.0818	<0.0001	<0.00005	0.01	<0.00001	65.2	<0.0001	<0.0001	0.00036	0.125	0.000057	<0.005	
PLC-US	05-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0265	<0.0001	0.00084	0.0821	<0.0001	<0.00005	<0.01	<0.00001	67.4	0.00011	<0.0001	0.00029	0.438	<0.00005	<0.005	
	08-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0284	<0.0001	0.0008	0.0843	<0.0001	<0.00005	<0.01	<0.00001	68.1	<0.0001	<0.0001	0.00027	0.499	0.000057	<0.005	
	11-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0199	<0.0001	0.00069	0.0804	<0.0001	<0.00005	<0.01	<0.00001	64.2	<0.0001	<0.0001	0.00029	0.427	<0.00005	<0.005	
	13-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0267	<0.0001	0.00085	0.0838	<0.0001	<0.00005	<0.01	<0.00001	64.5	<0.0001	<0.0001	0.00033	0.511	<0.00005	<0.005	
	19-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0194	<0.0001	0.00078	0.0883	<0.0001	<0.00005	<0.01	<0.00001	69.2	<0.0001	<0.0001	0.00026	0.438	<0.00005	<0.005	
	21-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0219	<0.0001	0.00075	0.0818	<0.0001	<0.00005	<0.01	<0.00001	68.4	<0.0001	<0.0001	0.00025	0.439	0.000052	<0.005	
	26-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0218	<0.0001	0.00067	0.0777	<0.0001	<0.00005	<0.01	<0.00001	67	<0.0001	<0.0001	0.00019	0.408	<0.00005	<0.005	

Obed Mountain Mine  
Water Quality  
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Total Metals																				
			Magnesium, Soluble	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium, Soluble	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	0.003
Location	Date	Sample Type																		
ATR-FF-5	15-Aug-14	Normal	8.87	0.0327	0.00000146	0.000715	0.00119	<0.3	1.1	0.00015	2.06	<0.00001	7.56	0.242	0.000012	<0.0001	0.00313	0.000432	0.00106	<0.003
ATR-FF-6	15-Aug-14	Normal	8.32	0.0466	0.00000185	0.000784	0.0017	<0.3	1.05	0.00014	2.39	<0.00001	9.22	0.229	<0.00001	<0.0001	0.0027	0.000376	0.00109	0.0034
ATR-FF-7	15-Aug-14	Normal	8.47	0.058	0.00000161	0.000729	0.00133	<0.3	1.04	0.00015	2.57	<0.00001	12.1	0.209	<0.00001	<0.0001	0.00212	0.00037	0.001	<0.003
ATR-PLC	05-Aug-14	Normal	10.3	0.0155	0.0000012	0.000522	0.0008	<0.3	0.609	0.00015	2.19	<0.00001	4.23	0.275	<0.00001	<0.0001	0.00233	0.000459	0.00078	<0.003
	11-Aug-14	Normal	11.3	0.0125	8.7E-7	0.000573	0.00047	<0.3	0.611	0.00014	2.07	<0.00001	6.65	0.308	<0.00001	<0.0001	0.00133	0.000626	0.00038	<0.003
	13-Aug-14	Normal	8.69	0.0152	-	0.000493	0.0008	<0.3	0.526	0.00015	1.8	<0.00001	2.53	0.273	<0.00001	<0.0001	0.00317	0.000388	0.00079	<0.003
	29-Aug-14	Normal	10.5	0.0163	-	0.000639	0.00091	<0.3	0.705	0.00014	2.39	<0.00001	6	0.326	<0.00001	<0.0001	0.00422	0.000611	0.00064	<0.003
ATR-US	05-Aug-14	Normal	8.37	0.0177	0.00000161	0.000448	0.00093	<0.3	0.588	0.00015	1.81	<0.00001	1.9	0.274	<0.00001	<0.0001	0.00344	0.000344	0.00107	<0.003
	08-Aug-14	Normal	8.98	0.0267	-	0.000421	0.00122	<0.3	0.593	0.00013	1.93	<0.00001	2.02	0.277	0.000011	<0.0001	0.00359	0.000353	0.00088	0.0038
	11-Aug-14	Normal	8.78	0.0147	0.00000104	0.000447	0.00049	<0.3	0.455	0.00016	1.25	<0.00001	2.3	0.277	<0.00001	<0.0001	0.00127	0.000393	0.00036	<0.003
		Field Duplicate	9.34	0.0146	9.0E-7	0.000441	0.00053	<0.3	0.47	0.00015	1.25	<0.00001	2.22	0.271	<0.00001	<0.0001	0.00119	0.000398	0.00043	<0.003
	13-Aug-14	Normal	0.615	0.00122	-	0.000479	0.00013	<0.3	<0.05	0.00014	1.68	<0.00001	0.122	0.276	<0.00001	<0.0001	<0.0003	0.000379	0.00017	<0.003
	19-Aug-14	Normal	8.71	0.0396	0.00000282	0.000417	0.00192	<0.3	0.774	0.00014	2.7	<0.00001	1.85	0.261	0.000013	<0.0001	0.00654	0.000372	0.0013	0.0046
	21-Aug-14	Normal	8.95	0.0284	-	0.0004	0.00127	<0.3	0.654	0.00014	1.64	<0.00001	2.18	0.275	0.00001	<0.0001	0.00337	0.000358	0.00092	0.0034
	26-Aug-14	Normal	10	0.02	0.00000116	0.000627	0.00085	<0.3	0.591	0.0002	2.23	<0.00001	2.89	0.339	<0.00001	<0.0001	0.00361	0.000413	0.00104	<0.003
Field Duplicate		9.78	0.0187	0.00000135	0.000586	0.00067	<0.3	0.526	0.00019	1.68	<0.00001	2.78	0.335	<0.00001	<0.0001	0.00642	0.000411	0.0008	<0.003	
29-Aug-14	Normal	8.91	0.0242	-	0.000554	0.0012	<0.3	0.764	0.00015	2.36	<0.00001	2.58	0.307	0.000012	<0.0001	0.00854	0.000435	0.00123	0.0034	
PLC-DS	05-Aug-14	Normal	14.9	0.0116	5.6E-7	0.000884	0.00042	<0.3	0.965	0.00012	4.21	<0.00001	13.8	0.357	<0.00001	<0.0001	0.00033	0.000963	0.00072	<0.003
	08-Aug-14	Normal	15.1	0.013	-	0.000813	0.00038	<0.3	0.901	<0.0001	4.03	<0.00001	15.6	0.363	<0.00001	<0.0001	0.00048	0.000949	0.00034	<0.003
	11-Aug-14	Normal	16.2	0.011	5.6E-7	0.000812	0.00043	<0.3	0.936	0.00011	4.01	<0.00001	15.3	0.356	<0.00001	<0.0001	<0.0003	0.0011	0.00035	<0.003
	19-Aug-14	Normal	16.1	0.0109	5.1E-7	0.000914	0.00038	<0.3	1.02	0.00011	4.51	<0.00001	15.8	0.387	<0.00001	<0.0001	<0.0003	0.00107	0.00035	0.0197
	21-Aug-14	Normal	17.1	0.0123	-	0.000898	0.00039	<0.3	1.03	0.00011	4.13	<0.00001	16.8	0.379	<0.00001	<0.0001	<0.0003	0.00108	0.00036	<0.003
	26-Aug-14	Normal	16.6	0.0101	6.9E-7	0.000782	0.00032	<0.3	0.962	<0.0001	3.96	<0.00001	16	0.348	<0.00001	<0.0001	<0.0003	0.00109	0.00019	<0.003
	29-Aug-14	Normal	18.3	0.00999	-	0.000787	0.00028	<0.3	0.903	<0.0001	3.98	<0.00001	16.1	0.362	<0.00001	<0.0001	<0.0003	0.00108	0.00019	<0.003
PLC-DS2	13-Aug-14	Normal	15	0.0101	-	0.000849	0.0006	<0.3	0.922	0.00011	4.26	<0.00001	14.4	0.36	<0.00001	<0.0001	0.00055	0.00108	0.00047	<0.003
PLC-US	05-Aug-14	Normal	14.6	0.0378	6.7E-7	0.000598	0.0005	<0.3	0.789	0.00011	4.7	<0.00001	5.01	0.313	<0.00001	<0.0001	0.00033	0.000728	0.00081	<0.003
	08-Aug-14	Normal	14.9	0.0404	-	0.000617	0.00052	<0.3	0.77	<0.0001	4.5	<0.00001	5.51	0.334	<0.00001	<0.0001	0.00049	0.000749	0.00045	<0.003
	11-Aug-14	Normal	15.2	0.0361	6.8E-7	0.000561	0.00048	<0.3	0.744	<0.0001	4.45	<0.00001	5.17	0.299	<0.00001	<0.0001	<0.0003	0.000728	0.0004	<0.003
	13-Aug-14	Normal	14.4	0.0385	-	0.000625	0.00058	<0.3	0.806	<0.0001	4.86	<0.00001	4.99	0.304	<0.00001	<0.0001	0.00069	0.000945	0.00068	<0.003
	19-Aug-14	Normal	15.3	0.0378	8.0E-7	0.000657	0.00049	<0.3	0.816	<0.0001	4.96	<0.00001	5.24	0.335	<0.00001	<0.0001	0.00054	0.000805	0.00046	<0.003
	21-Aug-14	Normal	15.6	0.0351	-	0.000654	0.00047	<0.3	0.835	<0.0001	4.34	<0.00001	5.64	0.323	<0.00001	<0.0001	0.00049	0.000829	0.00046	<0.003
	26-Aug-14	Normal	16.4	0.0319	5.2E-7	0.000574	0.00037	<0.3	0.797	<0.0001	4.42	<0.00001	5.5	0.307	<0.00001	<0.0001	0.0005	0.000861	0.00032	<0.003

Obed Mountain Mine  
 Water Quality  
 August 2014

			Aggregate Organic																			Anions and Nutrients									
	Hydrocarbons, Recoverable (I.R.)	BOD	Phenols (4AAP)	Alkalinity (T) as CaCO3	Ammonia	Bicarbonate	Carbonate	Chloride, Soluble	Electrical Conductivity (lab)	Hydroxide	Ionic Balance	Kjeldahl Nitrogen Total	Nitrate (as N)	Nitrate + Nitrite-N	Nitrite (as N)	pH (Lab)	Phosphorus	Phosphorus (Filtered)	Sulfur (as Sulfate), Soluble	Sulfate as S	Sulphide	Hardness as CaCO3	Total Dissolved Solids	Aluminium (Filtered)	Antimony (Filtered)	Arsenic (Filtered)	Barium (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	mg/L			
MDL	1	2	1	2	0.05	5	5	0.1	0.0002	5		0.2	0.05	0.05	0.02	0.1	0.001	0.001	0.5	0.5	0.0015			0.001	0.0001	0.0001	0.0001	0.00005			
Location	Date	Sample Type																													
	29-Aug-14	Normal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0036	<0.0001	0.00047	0.0756			

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Dissolved Metals

	Beryllium (Filtered)	Bismuth (Filtered)	Boron (Filtered)	Cadmium (Filtered)	Calcium, Soluble (Filtered)	Chromium (III+VI) (Filtered)	Cobalt (Filtered)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Lithium (Filtered)	Magnesium, Soluble (Filtered)	Manganese (Filtered)	Molybdenum (Filtered)	Nickel (Filtered)	Phosphorus (Filtered)	Potassium (Filtered)	Selenium (Filtered)	Silicon (Filtered)	Silver (Filtered)	Sodium, Soluble (Filtered)	Strontium (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		
MDL	0.0001	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		
Location	Date	Sample Type	<0.0001	<0.00005	<0.01	<0.00001	69.6	<0.0001	<0.0001	0.00025	<0.01	<0.00005	0.0036	16.2	0.000353	0.000616	0.00042	<0.3	0.782	<0.0001	4.51	<0.00001	5.83	0.323

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			/ Inorganic						Physical Tests																				
	Thallium (Filtered)	Tin (Filtered)	Titanium (Filtered)	Uranium (Filtered)	Vanadium (Filtered)	Zinc (Filtered)	Dissolved Organic Carbon (Filtered)	TOC	Colour	Total Dissolved Solids (Filtered)	Total Suspended Solids	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	mg/L	mg/L	Colour units	mg/L	mg/L	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	0.00001	0.0001	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			
Location	Date	Sample Type																											
	29-Aug-14	Normal	<0.00001	<0.0001	<0.0003	0.000844	0.00022	<0.001	-	-	-	-	-	<0.01	<0.04	<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

**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
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
Location	Date	Sample Type	<0.01	<0.01	<0.01	<0.04	<0.04	<0.04	<0.04	<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
	29-Aug-14	Normal	<0.01	<0.01	<0.01	<0.04	<0.04	<0.04	<0.04	<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



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			C2 Phenanthrenes/Anthracenes	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, Soluble	Chromium (III+VI)	Cobalt	Copper	Iron	Lead	Lithium
MDL			0.04	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
Location	Date	Sample Type																								
	29-Aug-14	Normal	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0115	<0.0001	0.00065	0.0835	<0.0001	<0.00005	<0.01	<0.00001	70.9	<0.0001	<0.0001	0.00024	0.404	<0.00005	<0.005

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Total Metals																				
	Magnesium, Soluble	Manganese	Mercury	Molybdenum	Nickel	Phosphorus	Potassium	Selenium	Silicon	Silver	Sodium, Soluble	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	0.005	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	17.4	0.0305	-	0.000589	0.00042	<0.3	0.754	<0.0001	4.31	<0.00001	5.46	0.327	<0.00001	<0.0001	<0.0003	0.000815	0.00029	<0.003