

Table 6. Logan Wash Mine Retort Water Analytical Data

SampleID		LWRTRT-Pipe	Retort Water	RT-1	Upper Manhole	Retort Water	RW-1	RW-2	Retort Water
SampleDate		2/16/2000	10/26/2000	10/26/2000	10/26/2000	10/2/2002	10/2/2002	10/2/2002	10/3/2006
Parameters	Units								
General Chemistry									
Alkalinity, Bicarbonate (as CaCO ₃)	mg/L	---	426	439	---	471	474	487	---
Alkalinity, Carbonate (as CaCO ₃)	mg/L	---	12.9	5 U	---	43.1	43	72	---
Alkalinity, Total (As CaCO ₃)	mg/L	---	439	439	---	515	517	559	521
Ammonia	mg/L	26 D	0.8 U	4 U	1.9	11.1	10.7	5.3	7 J
Bromide	mg/L	---	240	---	---	0.2	0.2	0.22	---
Chemical Oxygen Demand (COD)	mg/L	---	135	---	---	167	94.3	67.2	---
Chloride	mg/L	---	75.9	---	---	72.7	72.1	77.6	87.8
Specific Conductivity	umhos/cm	1800	---	---	---	6870	6930	8370	---
Cyanide (free)	mg/L	---	---	---	---	---	---	---	---
Fluoride	mg/L	3.5	13.7	14.8	---	---	---	---	8
Fluoride (dissolved)	mg/L	---	11.6	---	---	9.2	9.9	11	---
Hardness	mg/L	---	279	---	---	224	228	193	---
Nitrate (as N)	mg/L	---	0.8	0.74	---	0.05 U	0.05 U	0.05 U	U
Nitrite (as N)	mg/L	---	0.01 U	0.01 U	---	0.05 U	0.05 U	0.05 U	---
Oil and Grease, Total	mg/L	---	14.5	---	---	---	---	---	---
Oil and grease (HEM), polar	mg/L	---	---	---	---	---	---	---	---
Oil and grease (HEM), total	mg/L	---	---	---	---	4.9 U	---	4.9 U	15.8
pH	s.u.	8.3	---	---	---	8.7	8.8	8.8	---
Phenolics (Total)	mg/L	---	50 U	---	---	0.034	---	---	93 J
Phosphorus as P, total	mg/L	---	0.15	---	---	0.1 U	0.1 U	0.1 U	---
Silica	mg/L	---	20700	---	---	---	---	---	---
Sulfate	mg/L	---	3920	---	1810	3110	2770	3740	3790
Sulfate	mg/L	---	3920	---	1810	3110	2770	3740	3790
Sulfide	mg/L	---	---	---	---	---	---	---	---
Sulfite	mg/L	---	2 U	---	---	---	---	---	---
Thiocyanate	mg/L	---	1 U	---	---	---	---	---	---
Thiosulfate	mg/L	---	1 U	---	---	---	---	---	---
Total Dissolved Solids (TDS)	mg/L	---	6660	---	---	5350	5290	6380	6180
Nitrogen, Total Kjeldahl	mg/L	---	---	---	---	---	---	---	---
Total Organic Carbon (TOC)	mg/L	---	---	---	---	22.8	---	---	---
Total Suspended Solids (TSS)	mg/L	---	179	---	---	---	---	---	---
Dissolved Organic Carbon (DOC)	mg/L	---	40 U	---	---	23.8	---	---	---

Table 6. Logan Wash Mine Retort Water Analytical Data

SampleID		LWRTRT-Pipe	Retort Water	RT-1	Upper Manhole	Retort Water	RW-1	RW-2	Retort Water
SampleDate		2/16/2000	10/26/2000	10/26/2000	10/26/2000	10/2/2002	10/2/2002	10/2/2002	10/3/2006
Parameters	Units								
Metals									
Arsenic	ug/L	20	75.2	314	---	28.9	24.9	47.7	---
Arsenic (Dissolved)	ug/L	---	128	---	---	---	---	---	25.2
Boron	ug/L	6700	12900 E	13600 E	---	---	---	---	129000
Boron (Dissolved)	ug/L	---	13500 E	---	---	12800 J	12500 J	13600 J	---
Cadmium	ug/L	2 U	2.4	3.9	---	---	---	---	---
Cadmium (Dissolved)	ug/L	---	2.3	---	---	0.75	0.68	0.64	---
Calcium	ug/L	---	---	---	---	---	---	---	61500 J
Calcium (Dissolved)	ug/L	---	68400	---	---	37300	37100	37100	---
Chromium	ug/L	---	0.6 U	0.6 U	---	---	---	---	---
Chromium (Dissolved)	ug/L	---	1.1	---	---	18.6	15.4	19.5	---
Chromium III	ug/L	---	10 U	---	---	---	---	---	---
Chromium VI	ug/L	---	0.05 U	---	---	10 U	10 U	10 U	---
Copper	ug/L	---	3	16.9	---	---	---	---	---
Copper (Dissolved)	ug/L	---	3.1	---	---	13.5	14	16.4	---
Iron	ug/L	---	13900 E	54800 E	---	741 J	922 J	206 U	---
Iron (Dissolved)	ug/L	---	16800 E	---	---	---	---	---	---
Lead	ug/L	---	1.3	3.6	---	---	---	---	---
Lead (Dissolved)	ug/L	---	1.6	---	---	1 U	1 U	0.12	---
Lithium	ug/L	---	491 J	407 J	---	---	---	---	---
Lithium (Dissolved)	ug/L	---	582 J	---	---	355	349	367	---
Magnesium	ug/L	---	26700 E	28300 E	---	---	---	---	47200 J
Magnesium (Dissolved)	ug/L	---	26300 E	---	---	30700 J	30100 J	22200 J	---
Manganese	ug/L	---	38	62.1	---	---	---	---	---
Manganese (Dissolved)	ug/L	---	42.1	---	---	70.5	83	13.9	---
Mercury	ug/L	---	0.12 U	0.12 U	---	0.2 U	0.2 U	0.2 U	---
Mercury (Dissolved)	ug/L	---	0.12 U	---	---	---	---	---	---
Molybdenum (Dissolved)	ug/L	---	---	---	---	---	---	---	---
Nickel	ug/L	---	3.7	6.4	---	---	---	---	---
Nickel (Dissolved)	ug/L	---	3.9	---	---	0.37	0.29	0.17	---
Potassium	ug/L	---	167000 E	1160000 E	---	---	---	---	559000 J
Potassium (Dissolved)	ug/L	---	858000 E	---	---	754000	743000	917000	---
Selenium	ug/L	---	15.1	57.7	---	---	---	---	3.1 B
Selenium (Dissolved)	ug/L	---	11.8	---	---	14.2 J	14 J	18.6 J	---

Table 6. Logan Wash Mine Retort Water Analytical Data

SampleID		LWR	TRT-Pipe	Retort Water	RT-1	Upper Manhole	Retort Water	RW-1	RW-2	Retort Water
SampleDate		2/16/2000	10/26/2000	10/26/2000	10/26/2000	10/2/2002	10/2/2002	10/2/2002	10/2/2002	10/3/2006
Parameters	Units									
Metals										
Silicon	ug/L									
Silicon (Dissolved)	ug/L	---	---	---	---	11700 J	11400 J	12800 J		---
Silver	ug/L	5 U	0.05 U	0.05 U	---	---	---	---		---
Silver (Dissolved)	ug/L	---	0.03 U	---	---	0.049 J	0.028 J	1 U		---
Sodium	ug/L	---	---	---	---	---	---	---		1450000 J
Sodium (Dissolved)	ug/L	---	1070000	---	---	1160000	1140000	1320000		---
Strontium	ug/L	---	1300 J	2150 J	---	---	---	---		---
Strontium (Dissolved)	ug/L	---	998 J	---	---	1450	1440	1480		---
Uranium (Dissolved)	ug/L	---	---	---	---	1.6 J	1.5 J	1.7 J		---
Zinc	ug/L	---	4.9	18 U	---	---	---	---		---
Zinc (Dissolved)	ug/L	---	10.6	---	---	1.9	1.8	2.3		---
Volatile Organic Compounds - BTEX										
Benzene	ug/L	47 D	0.52 J	0.51 J	0.52 J	5.3	5.5	0.47 J		3.0
Ethylbenzene	ug/L	11 D	0.37 J	0.36 J	0.35 J	1.5	1.6	0.23 J		1.2
Toluene	ug/L	2 U	0.33 J	0.33 J	0.37 J	0.36 J	0.38 J	0.24 J		3.0
Xylenes, Total	ug/L	46 D	0.94 J	0.91 J	1 J	6.3	6.6	0.64 J		7.9
Petroleum Products										
Diesel fuel	mg/L	---	---	---	---	---	---	---		---
TPH - Extractable	mg/L	---	---	---	---	4.9	---	5.1		7.3
TPH (non-polar)	mg/L	---	---	---	---	4.9	---	5.1		7.3
TPH (C21 - C28)	mg/L	---	16	---	---	---	---	---		---
Radiology										
Gross Alpha Analytes	pci/l	---	180 + or - 95	---	---	---	---	---		---
Gross Beta Analytes	pci/l	---	650 + or - 80	---	---	---	---	---		---
Field Parameters										
Conductivity, field	uS/cm	---	---	---	---	---	---	---		---
Dissolved oxygen (DO), field	mg/L	---	---	---	---	---	---	---		---
Oxidation reduction potential (ORP), field	millivolts	---	---	---	---	---	---	---		---
pH, field	s.u.	---	---	---	---	---	---	---		---
Temperature, ambient	Deg C	---	---	---	---	---	---	---		---
Temperature, field	Deg C	---	---	---	---	---	---	---		---
Turbidity, field	NTU	---	---	---	---	---	---	---		---

Notes:

U = result not detected at the reporting limit

J = result value greater than the MDL and less than the RL; result considered estimated

B = analyte found in sample and associated blank

HF = analysis holding time exceeded; result considered estimated

E = result estimated due to the presence of interference

R = rejected data

--- = Analysis not performed

Table 6. Logan Wash Mine Retort Water Analytical Data

SampleID		Retort Water	Retort Water	LW-RETORT	LW-RETORT	LW-RETORT	Settling Pond	LW-005	LW-RETORT	LW-RETORT
SampleDate		10/11/2007	3/19/2008	10/30/2008	6/3/2009	11/5/2009	11/5/2009	6/2/2010	6/2/2010	11/22/2010
Parameters	Units									
General Chemistry										
Alkalinity, Bicarbonate (as CaCO ₃)	mg/L	439	436	497	557	470	435	474	485	457
Alkalinity, Carbonate (as CaCO ₃)	mg/L	57.1	69.6	5 U	34.4	46.1	30.5	58.7	58.9	67.8
Alkalinity, Total (As CaCO ₃)	mg/L	496	506	497	592	516	465	532	543	525
Ammonia	mg/L	3.5	4.9 J	0.33 U J	5.7	5.9	2.3	7.9	5.4	3.5
Bromide	mg/L	240	0.24	0.23	0.2 U	0.2 U J	0.2 U J	2 U	2 U	0.2 U
Chemical Oxygen Demand (COD)	mg/L	142	171	16.7	138	106	73.4	128	112	267
Chloride	mg/L	94.6	86.1	94.2	73.2	87.9	97	59.5	58.9	65.8
Specific Conductivity	umhos/cm	7750	11200	10800	12500	11300	11500	10500	10300	11000
Cyanide (free)	mg/L	---	---	---	---	---	---	---	---	---
Fluoride	mg/L	---	---	---	---	---	---	---	---	---
Fluoride (dissolved)	mg/L	11.5	10.1	10	13.4	12.6	12.3	9.4	9.3	10.1
Hardness	mg/L	300	340	310	352	300	340	320	310	300
Nitrate (as N)	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.98	0.5 U	0.5 U	0.05 U
Nitrite (as N)	mg/L	0.05 U	0.05 U	0.05 U	0.031 J	2.5 U J	2.5 U J	0.5 U	0.5 U	0.46
Oil and Grease, Total	mg/L	---	---	---	---	---	---	---	---	---
Oil and grease (HEM), polar	mg/L	---	---	---	---	---	---	---	---	---
Oil and grease (HEM), total	mg/L	4.8 U	11.4	4.7 U	4.7 U	11.5	4.8 U	48.8 J	6.8 J	38.5
pH	s.u.	8.6 J	8.6	8.4 J	8.5 J	8.6 J	8.5 J	8.7 J	8.6 J	8.6 J
Phenolics (Total)	mg/L	46	46	0.065	0.1	0.069	0.018	0.071 J	0.07 J	0.072
Phosphorus as P, total	mg/L	0.1 U	0.1 U	0.081 J	0.1 U	0.045 J	0.07 J	0.1 U	0.1 U	0.1 U
Silica	mg/L	---	11200	---	---	---	---	---	---	---
Sulfate	mg/L	4060	4060	3680	3930	4150	4140	3980	4210	3310
Sulfate	mg/L	4060	4060	3680	3930	4150	4140	3980	4210	3310
Sulfide	mg/L	---	---	23.4	5.8	5	2.4 J	5.5	6.4	14.3
Sulfite	mg/L	---	---	---	---	---	---	---	---	---
Thiocyanate	mg/L	---	---	---	---	---	---	---	---	---
Thiosulfate	mg/L	---	---	---	---	---	---	---	---	---
Total Dissolved Solids (TDS)	mg/L	1470	5990	5730	6930	5360	7200	7010	6690	6580
Nitrogen, Total Kjeldahl	mg/L	5.8	4.5	10.1	11.2	10.4	7.1	7.9	7.3	7.2
Total Organic Carbon (TOC)	mg/L	---	35.5	24.3	27.5	31.7	23.9	70.6	240	45.7
Total Suspended Solids (TSS)	mg/L	4 U	4.8	2.4 J	8.8	4 U	2.8 J	11.6 J	5.2 J	100
Dissolved Organic Carbon (DOC)	mg/L	1.4	35.7	24.4	22	23.3 J	24.2 J	20.9	20.9	21.3

Table 6. Logan Wash Mine Retort Water Analytical Data

SampleID		Retort Water	Retort Water	LW-RETORT	LW-RETORT	LW-RETORT	Settling Pond	LW-005	LW-RETORT	LW-RETORT
SampleDate		10/11/2007	3/19/2008	10/30/2008	6/3/2009	11/5/2009	11/5/2009	6/2/2010	6/2/2010	11/22/2010
Parameters	Units									
Metals										
Arsenic	ug/L	---	---	33.6	34.6	39.6 J	35.9	26.5	30.4	31.3
Arsenic (Dissolved)	ug/L	24.9	34.7	---	29.2	29.2	37.1 J	28.6	25.7	12.1
Boron	ug/L	---	---	---	---	---	---	---	---	---
Boron (Dissolved)	ug/L	10400	12600	9620	11800	11500 J	---	10700	11100	11000
Cadmium	ug/L	---	---	---	---	---	---	---	---	---
Cadmium (Dissolved)	ug/L	1 U	1 U	0.68 J	1 U	0.23 J	11500 J	1 U	0.2 J	1 U
Calcium	ug/L	---	---	---	---	---	---	---	---	---
Calcium (Dissolved)	ug/L	51100	60100	49900	52100	50600 J	54600 J	49600	51500	49500
Chromium	ug/L	2 U	---	0.38 J	0.41 J	2 U	2 U J	2 U	0.19 J	2 U
Chromium (Dissolved)	ug/L	0.36 J	0.26	0.67 J	0.46 J	2 U J	2 U J	0.26 J	0.25 J	0.27 J
Chromium III	ug/L	---	---	---	---	---	---	---	---	---
Chromium VI	ug/L	---	---	---	---	---	---	---	---	---
Copper	ug/L	---	---	---	---	---	---	---	---	---
Copper (Dissolved)	ug/L	12.1	2.1	5.9	0.89 J	1.2 J	---	0.42 J	0.46 J	0.1 J
Iron	ug/L	403	604	110	154	112	174	273	70.9	206 J
Iron (Dissolved)	ug/L	280	114	235	75.3	5.1 J	33.1 J	50 U	50 U	3.9 J
Lead	ug/L	---	---	---	---	---	---	---	---	---
Lead (Dissolved)	ug/L	0.63 J	0.089 J	1 U	0.065 J	1 U J	1 U J	0.025 J	0.02 J	1 U
Lithium	ug/L	---	---	---	---	---	---	---	---	---
Lithium (Dissolved)	ug/L	435	489	503	498	492 J	483 J	519	533	536
Magnesium	ug/L	---	---	---	---	---	---	---	---	---
Magnesium (Dissolved)	ug/L	34100	43300	36300	43600	42400 J	48700 J	36700	37700	46800
Manganese	ug/L	---	---	---	---	---	---	---	---	---
Manganese (Dissolved)	ug/L	19.4	15.4	14.8	16.2	13.3 J	17 J	11.5	11.7	11.2
Mercury	ug/L	---	---	---	---	---	---	---	---	---
Mercury (Dissolved)	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U J	0.2 U J	0.2 U	0.2 U	0.2 U
Molybdenum (Dissolved)	ug/L	---	---	---	---	---	---	---	---	---
Nickel	ug/L	---	---	---	---	---	---	---	---	---
Nickel (Dissolved)	ug/L	---	---	---	---	---	---	---	---	---
Potassium	ug/L	---	---	---	---	---	---	---	---	---
Potassium (Dissolved)	ug/L	978000	711000	943000	939000	960000 J	950000 J	906000	904000	1050000
Selenium	ug/L	---	---	---	---	---	---	---	---	---
Selenium (Dissolved)	ug/L	3.9 J	5.4	4.6 J	2.6 J	4.3 J	4.4 J	2.2 J	2.1 J	4.4 J

Table 6. Logan Wash Mine Retort Water Analytical Data

SampleID		Retort Water	Retort Water	LW-RETORT	LW-RETORT	LW-RETORT	Settling Pond	LW-005	LW-RETORT	LW-RETORT
SampleDate		10/11/2007	3/19/2008	10/30/2008	6/3/2009	11/5/2009	11/5/2009	6/2/2010	6/2/2010	11/22/2010
Parameters	Units									
Metals										
Silicon	ug/L									
Silicon (Dissolved)	ug/L	---	12200	10100	11800	10600 J	11200 J	9130	9270	12600
Silver	ug/L	---	---	---	---	---	---	---	---	---
Silver (Dissolved)	ug/L	---	---	---	---	---	---	---	---	---
Sodium	ug/L	---	---	---	---	---	---	---	---	---
Sodium (Dissolved)	ug/L	740000	1430000	1320000	1350000	1320000 J	1780 J	1310000	1310000	1460000
Strontium	ug/L	---	---	---	---	---	---	---	---	---
Strontium (Dissolved)	ug/L	1700	1970	1700	1790	1730 J	3.5 J	1690	1730	2170
Uranium (Dissolved)	ug/L	---	---	---	---	---	---	---	---	---
Zinc	ug/L	---	---	---	---	---	---	---	---	---
Zinc (Dissolved)	ug/L	5.9	4.5 B	14.8 U	4 J	2.3 J	3.5 J	1.6 J	1 J	2.6 J
Volatile Organic Compounds - BTEX										
Benzene	ug/L	2.6	1.5	3.5	5.1	4.3	1 U	3.7	3.8	3.2
Ethylbenzene	ug/L	1.2	0.59 J	1.8	1.5	1.6	1 U	1.3	1.7	1.4
Toluene	ug/L	1.4	0.6 J	2.6	3.2	2.3	1 U	1.8	1.9	2.3
Xylenes, Total	ug/L	8.2	3.4	12	9.5	11	3 U	8.4	12	11
Petroleum Products										
Diesel fuel	mg/L	---	---	---	---	---	---	---	---	---
TPH - Extractable	mg/L	0.36	---	5	28	7.6	2.9	16 J	7.1 J	47
TPH (non-polar)	mg/L	0.36	26	5	28	7.6	2.9	16 J	7.1 J	47
TPH (C21 - C28)	mg/L	---	---	---	---	---	---	---	---	---
Radiology										
Gross Alpha Analytes	pci/l	---	---	---	---	---	---	---	---	---
Gross Beta Analytes	pci/l	---	---	---	---	---	---	---	---	---
Field Parameters										
Conductivity, field	uS/cm	---	---	---	---	---	---	---	---	---
Dissolved oxygen (DO), field	mg/L	---	---	---	---	---	---	---	---	---
Oxidation reduction potential (ORP), field	millivolts	---	---	---	---	---	---	---	---	---
pH, field	s.u.	---	---	---	---	---	---	---	---	---
Temperature, ambient	Deg C	---	---	---	---	---	---	---	---	---
Temperature, field	Deg C	---	---	---	---	---	---	---	---	---
Turbidity, field	NTU	---	---	---	---	---	---	---	---	---

Notes:

U = result not detected at the reporting limit

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B = analyte found in sample and associated blank

HF = analysis holding time exceeded; result considered es

E = result estimated due to the presence of interference

R = rejected data

--- = Analysis not performed

Table 6. Logan Wash Mine Retort Water Analytical Data

SampleID		LW-RETORT	LW-RETORT	LW-RETORT	LW-RETORT	LW-RETORT	LW-003 (DUP)	LW-RETORT	LW-RETORT	LW-003 (DUP)	LW-RETORT
SampleDate		5/11/2011	10/19/2011	6/14/2012	10/24/2012	5/28/2013	5/28/2013	10/24/2013	5/21/2014	5/21/2014	10/22/2014
Parameters	Units										
General Chemistry											
Alkalinity, Bicarbonate (as CaCO ₃)	mg/L	515	440	470	410 J	420	460 J	540	690	680	580 B
Alkalinity, Carbonate (as CaCO ₃)	mg/L	33.3	70	46	61 J	59	410 J	45	120	610	5 U
Alkalinity, Total (As CaCO ₃)	mg/L	572	510	520	470 J	480	49 J	590	810	69	580 B
Ammonia	mg/L	3.8	3.1	3.6	2.8 J	2.8	3.9 J	4.8	5.7	6	3.2
Bromide	mg/L	1 U	2 U	1 U	2.5 U	2.5 U	2.5 U J	2.5 U	2.5 U	2.5 U	2.5 U
Chemical Oxygen Demand (COD)	mg/L	150	120	110	120 J	100	97 J	190	380	100	750
Chloride	mg/L	87.3	68	85	75	80	80 J	94	98	91	96
Specific Conductivity	umhos/cm	10000	12000	11000	13000 J	9900	---	8800	8300	8400	8700
Cyanide (free)	mg/L	---	---	---	---	---	---	---	---	---	---
Fluoride	mg/L	---	---	---	---	---	---	---	---	---	---
Fluoride (dissolved)	mg/L	12	10	9.9	10	9.7	9.6 J	10	14	8.7	10
Hardness	mg/L	400	300	330	330	320	330 J	370	410	390	400
Nitrate (as N)	mg/L	0.25 U	0.5 U	0.25 U	1 U J	0.5 U	0.5 U J	0.5 U	0.5 U	0.5 U	0.035 J
Nitrite (as N)	mg/L	2.5 U	0.5 U	0.25 U	0.25 U J	0.25 U	0.25 U J	0.25 U	0.25 U	0.25 U	0.25 U
Oil and Grease, Total	mg/L	---	---	---	---	---	---	---	---	---	560
Oil and grease (HEM), polar	mg/L	---	22	10	5 J	4.7 U	4.7 U J	20	14	4.7 U	---
Oil and grease (HEM), total	mg/L	558	---	---	---	---	---	---	---	---	---
pH	s.u.	8.5 J	8.26 J	8.53 J	8.76 J	8.16 J	0.00834 J	8.48 J	8.46 J	8.5 J	8.62 HF
Phenolics (Total)	mg/L	0.1	0.06	0.066	0.071 J	0.044	0.047 J	0.18	0.25	0.091	0.11
Phosphorus as P, total	mg/L	0.031 J	0.1 U	0.045 J	0.038 J	0.058 J	0.062 J	0.075 J	0.11	0.067 J	1.2
Silica	mg/L	---	---	---	---	---	---	---	---	---	---
Sulfate	mg/L	3820	3600	3700	3600 J	3900	4000 J	4000	3300	3800	4100
Sulfate	mg/L	3820	3600	3700	3600	3900	4000 J	4000	3300	3800	4100
Sulfide	mg/L	18.5	46	20	20 J	46	38 J	58	110	55	3 U
Sulfite	mg/L	---	---	---	---	---	---	---	---	---	---
Thiocyanate	mg/L	---	---	---	---	---	---	---	---	---	---
Thiosulfate	mg/L	---	---	---	---	---	---	---	---	---	---
Total Dissolved Solids (TDS)	mg/L	1520	6900	6500	6000 J	6100	6300 J	5800	5800	5700	6500
Nitrogen, Total Kjeldahl	mg/L	11.5	4.6 J	5.6	5.0 J	5.1	---	6.8	12	---	15
Total Organic Carbon (TOC)	mg/L	21.7	20	20	17 J	13	13 J	24	27	17	2.6
Total Suspended Solids (TSS)	mg/L	4 U	16	4 U	4 U J	2 U	2 U J	7.2	22	2 U	1500
Dissolved Organic Carbon (DOC)	mg/L	20.6	19	17	17 J	17	13 J	24	25	23	19

Table 6. Logan Wash Mine Retort Water Analytical Data

SampleID		LW-RETORT	LW-RETORT	LW-RETORT	LW-RETORT	LW-RETORT	LW-003 (DUP)	LW-RETORT	LW-RETORT	LW-003 (DUP)	LW-RETORT
SampleDate		5/11/2011	10/19/2011	6/14/2012	10/24/2012	5/28/2013	5/28/2013	10/24/2013	5/21/2014	5/21/2014	10/22/2014
Parameters	Units										
Metals											
Arsenic	ug/L	19.2	25	39	37	28	28	21	40	34	630
Arsenic (Dissolved)	ug/L	29.5	31	36	32	36 J	33 J	19	38	32	39
Boron	ug/L	---	---	---	---	---	---	---	---	---	---
Boron (Dissolved)	ug/L	10600	11000	11000	9500	13000 J	12000 J	12000	13000	12000	10000 B
Cadmium	ug/L	---	---	---	---	---	---	---	---	---	---
Cadmium (Dissolved)	ug/L	0.28 J	1 U	0.2 J	0.12 J	0.64 J	0.61 J	5 U	1 U	1 U	10 U
Calcium	ug/L	---	---	---	---	---	---	---	---	---	---
Calcium (Dissolved)	ug/L	48100	52000	57000	50000	68000 J	63000 J	65000	60000	60000	53000 B
Chromium	ug/L	0.24 J	0.91 J	0.18 J	2 U	10 U	10 U	2 U	0.77 J	0.79 J	4 J
Chromium (Dissolved)	ug/L	0.2 J	2 U	2 U	2 U	10 U J	10 U J	10 U	0.79 J	0.57 J	20 U
Chromium III	ug/L	---	---	---	---	---	---	---	---	---	---
Chromium VI	ug/L	---	---	---	---	---	---	---	---	---	---
Copper	ug/L	---	---	---	---	---	---	---	---	---	---
Copper (Dissolved)	ug/L	0.54 J	0.41 J	1.5 J	0.89 J	3.6 J	3.6 J	6 J	0.55 J	0.63 J	20 U
Iron	ug/L	132	150	130	80	110 J	340	820	2900	180	200000
Iron (Dissolved)	ug/L	50 U	46 J	37 J	15 J	250 U J	250 U J	250 U	50 U	50 U	500 U
Lead	ug/L	---	---	---	---	---	---	---	---	---	---
Lead (Dissolved)	ug/L	1 U	1 U	1 U	1 U	5 U J	5 U J	5 U	1 U	1 U	10 U
Lithium	ug/L	---	---	---	---	---	---	---	---	---	---
Lithium (Dissolved)	ug/L	472	470	520	450	480 J	490 J	520	520	530	530
Magnesium	ug/L	---	---	---	---	---	---	---	---	---	---
Magnesium (Dissolved)	ug/L	43400	41000	45000	37000	48000 J	44000 J	47000	70000	67000	39000 B
Manganese	ug/L	---	---	---	---	---	---	---	---	---	---
Manganese (Dissolved)	ug/L	11.4	13	11	7.8	9.1 J	8.7 J	13 J	1.2	12	12 JB
Mercury	ug/L	---	---	---	---	---	---	---	---	---	---
Mercury (Dissolved)	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U J	0.2 U J	0.2 U	0.2 U	0.2 U	0.2 U
Molybdenum (Dissolved)	ug/L	---	---	---	---	---	---	---	---	---	---
Nickel	ug/L	---	---	---	---	---	---	---	---	---	---
Nickel (Dissolved)	ug/L	---	---	---	---	---	---	---	---	---	---
Potassium	ug/L	---	---	---	---	---	---	---	---	---	---
Potassium (Dissolved)	ug/L	865000	950000	930000	890000	1100000 J	1100000 J	920000	760000	780000	870000
Selenium	ug/L	---	---	---	---	---	---	---	---	---	---
Selenium (Dissolved)	ug/L	3.7 J	2.2 J	1.8 J	5 U	25 U J	25 U J	6.6 J	2.9 J	3.2 J	50 U

Table 6. Logan Wash Mine Retort Water Analytical Data

SampleID		LW-RETORT	LW-RETORT	LW-RETORT	LW-RETORT	LW-RETORT	LW-003 (DUP)	LW-RETORT	LW-RETORT	LW-003 (DUP)	LW-RETORT
SampleDate		5/11/2011	10/19/2011	6/14/2012	10/24/2012	5/28/2013	5/28/2013	10/24/2013	5/21/2014	5/21/2014	10/22/2014
Parameters	Units										
Metals											
Silicon	ug/L	---	---	---	---	---	---	---	---	---	---
Silicon (Dissolved)	ug/L	9590	9600	11000	9100	12000 J	11000 J	8900	11000	11000	8100
Silver	ug/L	---	---	---	---	---	---	---	---	---	---
Silver (Dissolved)	ug/L	---	---	---	---	---	---	---	---	---	---
Sodium	ug/L	---	---	---	---	---	---	---	---	---	---
Sodium (Dissolved)	ug/L	1250000	1300000	1400000	1300000	1700000 J	1500000 J	1500000	1400000	1400000	1200000
Strontium	ug/L	---	---	---	---	---	---	---	---	---	---
Strontium (Dissolved)	ug/L	1780	1800	2300	1900	2400 J	2200 J	2600	2400	2300	1900
Uranium (Dissolved)	ug/L	---	---	---	---	---	---	---	---	---	---
Zinc	ug/L	---	---	---	---	---	---	---	---	---	---
Zinc (Dissolved)	ug/L	2 J	5 U	5.4 U	5 U	25 U J	25 U J	25 U	5 U	5 U	25 JB
Volatile Organic Compounds - BTEX											
Benzene	ug/L	4.1	2.5	2.5	2.4 J	2.1	2.1 J	6.7	10	3.5	0.75 J
Ethylbenzene	ug/L	1.9	1.6	1.6	1.1 J	1.1	1.4 J	1.9	3	2	1 U
Toluene	ug/L	3.1	1.4	1.8	1 J	1.1	1.2 J	7.6	12	3.7	1 U
Xylenes, Total	ug/L	12	9.6	11	5.7 J	8.6	9 J	16	21	14	1.2 J
Petroleum Products											
Diesel fuel	mg/L	---	---	---	7.3 J	6.3	5.2 J	15	39	5	1400
TPH - Extractable	mg/L	110	4.5	6.9	---	---	---	---	---	---	---
TPH (non-polar)	mg/L	110	4.5	6.9	---	---	---	---	---	---	---
TPH (C21 - C28)	mg/L	---	---	---	---	---	---	---	---	---	---
Radiology											
Gross Alpha Analytes	pci/l	---	---	---	---	---	---	---	---	---	---
Gross Beta Analytes	pci/l	---	---	---	---	---	---	---	---	---	---
Field Parameters											
Conductivity, field	uS/cm	---	5590	5480	6008	8850	---	5690	9230	9500	9600
Dissolved oxygen (DO), field	mg/L	---	0.58	1.41	0.83	0.37	---	0.17	---	---	1.09
Oxidation reduction potential (ORP), field	millivolts	---	-182.9	-298	-256	-192.8	---	-281	-267	-190.1	-266
pH, field	s.u.	---	8.8	8.92	8.79	8.78	---	8.64	8.16	8.77	8.61
Temperature, ambient	Deg C	---	22	34	8.2	32	---	32	---	---	---
Temperature, field	Deg C	---	14.7	15	14.2	14.1	---	14	13.4	14.8	13.7
Turbidity, field	NTU	---	1.43	3.34	1.48	1.48	---	12.98	10.92	---	---

Notes:

U = result not detected at the reporting limit

J = result value greater than the MDL and less than the RL

B = analyte found in sample and associated blank

HF = analysis holding time exceeded; result considered es

E = result estimated due to the presence of interference

R = rejected data

--- = Analysis not performed

Table 6. Logan Wash Mine Retort Water Analytical Data

SampleID		LW-RETORT	LW-003 (DUP)	LW-RETORT	LW-003 (DUP)	LW-RETORT	LW-003 (DUP)	LW-RETORT	LW-003 (DUP)	LW-RETORT	LW-003 (DUP)
SampleDate		5/12/2015	5/12/2015	10/14/2015	10/14/2015	5/23/2016	5/23/2016	10/4/2016	10/4/2016	5/1/2017	5/1/2017
Parameters	Units										
General Chemistry											
Alkalinity, Bicarbonate (as CaCO ₃)	mg/L	410	500	370 B	277 B	354	372	352	334	307	309
Alkalinity, Carbonate (as CaCO ₃)	mg/L	100	390	76	390 B	21.5	26.9	61.6	64.7	54.8	55.2
Alkalinity, Total (As CaCO ₃)	mg/L	520	110	440 B	---	375	399	413 J	399 J	362	364
Ammonia	mg/L	2.8	3.2	2.6	2.8	1.7	1.69	2.65	1.85	1 U	1.49
Bromide	mg/L	2.5 U	2.5 U	5 U	5 U	0.08 U	0.08 U	R	R	7.9 U	7.9 U
Chemical Oxygen Demand (COD)	mg/L	50	83	81	81	114	87.5	102	12.9	173	78.2
Chloride	mg/L	84	83	67	68	76.8	77.3	80.4	80.5	79.1	83.5
Specific Conductivity	umhos/cm	8500	8600	8700	---	85700	85100	8310	8260	8780	8800
Cyanide (free)	mg/L	---	---	---	---	---	---	---	---	---	---
Fluoride	mg/L	---	---	---	---	9.5	9.72	8.87	8.9	8.53	8.73
Fluoride (dissolved)	mg/L	10	10	8.7	8.9	---	---	---	---	---	---
Hardness	mg/L	330	310	340	340	332	336	327	320	520	527
Nitrate (as N)	mg/L	0.64	0.5 U	1 U	1 U	0.023 U	0.023 U	0.023 U	0.023 U	2.27 UJ	2.27 UJ
Nitrite (as N)	mg/L	0.25 U	0.25 U	0.5 U	0.5 U	0.028 U	0.028 U	0.028 U	0.028 U	0.0277 U	0.0277 U
Oil and Grease, Total	mg/L	---	---	---	---	---	---	---	---	---	---
Oil and grease (HEM), polar	mg/L	3.4 J	2.9 J	1.6 J	4.1 U	---	---	---	---	---	---
Oil and grease (HEM), total	mg/L	---	---	---	---	1.38 J	1.74 J	3.58 J	1.160 U	157	12.5
pH	s.u.	8.44 J	8.58 J	8.74 HF	8.76 H F	8.25 J	7.36	8.43 J	8.73 J	8.60 J	8.61 J
Phenolics (Total)	mg/L	0.033	0.02065 U	0.058	0.031 U	0.014 U	0.046 U	0.039 UJ	0.188 J	0.0309 J	0.0291 J
Phosphorus as P, total	mg/L	0.056 J	0.087 J	0.077 J	0.059 J	0.064 J	0.054 J	0.059 J	0.058 J	0.109	0.0744 J
Silica	mg/L	---	---	---	---	19.7	19.6	19.6	19.6	15.6	15.8
Sulfate	mg/L	4200	4200	3500	3700	4120	4160	4010	3930	4090	4980
Sulfate	mg/L	4200	---	3500	---	4120	4160	4010	3930	4090	4980
Sulfide	mg/L	46	45	46	50	0.34 J	1.32 J	1.77	1.84	0.274	1.12
Sulfite	mg/L	---	---	---	---	---	---	---	---	---	---
Thiocyanate	mg/L	---	---	---	---	---	---	---	---	---	---
Thiosulfate	mg/L	---	---	---	---	---	---	---	---	---	---
Total Dissolved Solids (TDS)	mg/L	7100	7200	7100	7000	6740	6810	6250	6330	6280	6870
Nitrogen, Total Kjeldahl	mg/L	4.9 J	4.4 J	3.9 J	4.5 J	2.75	2.68	2.98	2.99	3.81	2.85
Total Organic Carbon (TOC)	mg/L	19	---	19	19	686	166	25.4	16.9	17.7	16.2
Total Suspended Solids (TSS)	mg/L	---	---	---	---	---	---	---	---	---	---
Dissolved Organic Carbon (DOC)	mg/L	20	20	19	18	118	74.8	21.1	21.7	17.2	20.3

Table 6. Logan Wash Mine Retort Water Analytical Data

SampleID		LW-RETORT	LW-003 (DUP)	LW-RETORT	LW-003 (DUP)	LW-RETORT	LW-003 (DUP)	LW-RETORT	LW-003 (DUP)	LW-RETORT	LW-003 (DUP)
SampleDate		5/12/2015	5/12/2015	10/14/2015	10/14/2015	5/23/2016	5/23/2016	10/4/2016	10/4/2016	5/1/2017	5/1/2017
Parameters	Units										
Metals											
Arsenic	ug/L	9.5 J	12 J	14	17	32.9	34.3	45.6	50.8	34.1	23.7
Arsenic (Dissolved)	ug/L	21 J	23 J	26	30	28.7	26.2	32.2	43.0	35.0	37.8
Boron	ug/L	---	---	---	---	---	---	---	---	---	---
Boron (Dissolved)	ug/L	10000	11000	11000	11000	10800	11200	10800	11500	13600	11900
Cadmium	ug/L	---	---	---	---	---	---	---	---	---	---
Cadmium (Dissolved)	ug/L	1 U	1 U	1.9 J	2.2 J	0.52 J	0.568 J	0.26 J	0.335 J	0.230 J	0.220 U
Calcium	ug/L	---	---	---	---	---	---	---	---	---	---
Calcium (Dissolved)	ug/L	53000	53000	58000 B	59000 B	65400	64700	48600	70300	109000	112000
Chromium	ug/L	2 U	2 U	20 U	20 U	0.32 U	0.320 U	0.32 U	0.320 U	0.320 U	0.320 U
Chromium (Dissolved)	ug/L	2 U	2 U	20 U	20 U	0.32 U	0.320 U	0.38 U	0.650 U	0.320 U	0.455 J
Chromium III	ug/L	---	---	---	---	---	---	---	---	---	---
Chromium VI	ug/L	---	---	---	---	---	---	---	---	---	---
Copper	ug/L	---	---	---	---	---	---	---	---	---	---
Copper (Dissolved)	ug/L	1.4 J	1.4 J	7.3 J	7.3 J	16.2	0.412 J	0.29 J	0.66 J	13.0	15.1
Iron	ug/L	180	120	340 J	210 J	462	123	250	228	1380	1030
Iron (Dissolved)	ug/L	9.1 J	12 J	500 U	500 U	227	15 U	15 U	22.1 J	20.6 J	36.4 J
Lead	ug/L	---	---	---	---	---	---	---	---	---	---
Lead (Dissolved)	ug/L	1 U	1 U	10 U	10 U	1.63	0.26 U	0.26 U	0.260 U	0.260 U	0.260 U
Lithium	ug/L	---	---	---	---	---	---	---	---	---	---
Lithium (Dissolved)	ug/L	500	500	550	540	518	513	528	524	584	569
Magnesium	ug/L	---	---	---	---	---	---	---	---	---	---
Magnesium (Dissolved)	ug/L	36000	37000	41000 B	41000 B	39300	39200	28200	39300	44400	45100
Manganese	ug/L	---	---	---	---	---	---	---	---	---	---
Manganese (Dissolved)	ug/L	13	13	15 J	16 J	10.4	9.77	14.1	20.5	46.5	47.6
Mercury	ug/L	---	---	---	---	---	---	---	---	---	---
Mercury (Dissolved)	ug/L	0.2 U	0.2 U	0.037 JB	0.04 J B	0.049 U	0.0490 U	0.049 U	0.0490 U	0.0490 U	0.0490 U
Molybdenum (Dissolved)	ug/L	---	---	---	---	---	---	---	---	---	---
Nickel	ug/L	---	---	---	---	---	---	---	---	---	---
Nickel (Dissolved)	ug/L	---	---	---	---	---	---	---	---	---	---
Potassium	ug/L	---	---	---	---	---	---	---	---	---	---
Potassium (Dissolved)	ug/L	930000	920000	910000	940000	968000	994000	670000	963000	1270000	1130000
Selenium	ug/L	---	---	---	---	---	---	---	---	---	---
Selenium (Dissolved)	ug/L	4.5 J	4.1 J	3.6 J	4.8 J	3.18	2.75	2.38	3.07	4.94	5.20

Table 6. Logan Wash Mine Retort Water Analytical Data

SampleID		LW-RETORT	LW-003 (DUP)	LW-RETORT	LW-003 (DUP)	LW-RETORT	LW-003 (DUP)	LW-RETORT	LW-003 (DUP)	LW-RETORT	LW-003 (DUP)
SampleDate		5/12/2015	5/12/2015	10/14/2015	10/14/2015	5/23/2016	5/23/2016	10/4/2016	10/4/2016	5/1/2017	5/1/2017
Parameters	Units										
Metals											
Silicon	ug/L	---	---	---	---	9220	9160	9170	9170	7310	7360
Silicon (Dissolved)	ug/L	7900	8400	8500	8800	---	---	---	---	---	---
Silver	ug/L	---	---	---	---	---	---	---	---	---	---
Silver (Dissolved)	ug/L	---	---	---	---	---	---	---	---	---	---
Sodium	ug/L	---	---	---	---	---	---	---	---	---	---
Sodium (Dissolved)	ug/L	1500000	1600000	1300000	1300000	1370000	1400000	1560000	1370000	1770000	1570000
Strontium	ug/L	---	---	---	---	---	---	---	---	---	---
Strontium (Dissolved)	ug/L	1600	1600	1900	2000	2100	2140	1530	2400	2790	2900
Uranium (Dissolved)	ug/L	---	---	---	---	---	---	---	---	---	---
Zinc	ug/L	---	---	---	---	---	---	---	---	---	---
Zinc (Dissolved)	ug/L	1.1 J	1.5 J	15 JB	14 J B	163	2.39 U	4.24 J	15.6 J	2.39 J	3.67 J
Volatile Organic Compounds - BTEX											
Benzene	ug/L	4.9 J	3.6 J	5 U	5 U	1.22	1.21	1.9	1.85	1.44	1.47
Ethylbenzene	ug/L	3.6 J	3.1 J	5 U	5 U	0.85 J	0.825 J	0.92 J	0.845 J	0.857 J	0.807 J
Toluene	ug/L	5 U	5 U	5 U	5 U	0.78 U	0.780 U	0.78 U	0.780 U	0.419 J	0.432 J
Xylenes, Total	ug/L	24	19	10	9.7 J	4.38	4.14	4.86	4.56	4.56	4.38
Petroleum Products											
Diesel fuel	mg/L	5.2	5.4	7.3	7	6.8	7.34	5.2	4.34	5.9	9.55
TPH - Extractable	mg/L	---	---	---	---	---	---	---	---	---	---
TPH (non-polar)	mg/L	---	---	---	---	---	---	---	---	---	---
TPH (C21 - C28)	mg/L	---	---	---	---	---	---	---	---	---	---
Radiology											
Gross Alpha Analytes	pci/l	---	---	---	---	---	---	---	---	---	---
Gross Beta Analytes	pci/l	---	---	---	---	---	---	---	---	---	---
Field Parameters											
Conductivity, field	uS/cm	9730	9660	9670	9670	9550	9520	8740	8870	8840	8730
Dissolved oxygen (DO), field	mg/L	0.85	1.44	5.24	5.24	11.7	5.9	1.26	1.14	--	6
Oxidation reduction potential (ORP), field	millivolts	-226	-259	---	---	-256	-275	-220	-249	-166.4	-199.6
pH, field	s.u.	8.92	8.92	8.88	8.77	8.75	8.79	8.75	8.87	8.67	8.8
Temperature, ambient	Deg C	18	65	24	---	---	---	---	---	60	60
Temperature, field	Deg C	11.8	12.2	25	14.1	13.2	13.7	13.8	13.4	13.4	12.8
Turbidity, field	NTU	2.27	1.7	1.93	1.93	3.36	2.73	3.17	3.29	11.75	7.31

Notes:

U = result not detected at the reporting limit

J = result value greater than the MDL and less than the RL

B = analyte found in sample and associated blank

HF = analysis holding time exceeded; result considered es

E = result estimated due to the presence of interference

R = rejected data

--- = Analysis not performed

Table 6. Logan Wash Mine Retort Water Analytical Data

SampleID		LW-RETORT	LW-003 (DUP)
SampleDate		10/3/2017	10/3/2017
Parameters	Units		
General Chemistry			
Alkalinity, Bicarbonate (as CaCO ₃)	mg/L	324	348
Alkalinity, Carbonate (as CaCO ₃)	mg/L	79.3	34.2
Alkalinity, Total (As CaCO ₃)	mg/L	403	382
Ammonia	mg/L	1.52	1.5
Bromide	mg/L	0.079 U	0.079 U
Chemical Oxygen Demand (COD)	mg/L	75.3	89.4
Chloride	mg/L	84.5	84.4
Specific Conductivity	umhos/cm	9080	9040
Cyanide (free)	mg/L	---	---
Fluoride	mg/L	8.37	8.49
Fluoride (dissolved)	mg/L	---	---
Hardness	mg/L	525 0	374 0
Nitrate (as N)	mg/L	0.0227 U	0.0227 U
Nitrite (as N)	mg/L	0.0277 U	0.0277 U
Oil and Grease, Total	mg/L	---	---
Oil and grease (HEM), polar	mg/L	---	---
Oil and grease (HEM), total	mg/L	25.3	3.51 J
pH	s.u.	8.48 J	8.69 J
Phenolics (Total)	mg/L	0.0137 U	0.0148 U
Phosphorus as P, total	mg/L	0.0526 U	0.0686 U
Silica	mg/L	15.7	16.3
Sulfate	mg/L	4400	4460
Sulfate	mg/L	0.091	0.079
Sulfide	mg/L	---	---
Sulfite	mg/L	---	---
Thiocyanate	mg/L	---	---
Thiosulfate	mg/L	---	---
Total Dissolved Solids (TDS)	mg/L	6890	5970 0
Nitrogen, Total Kjeldahl	mg/L	2.46	2.38 0
Total Organic Carbon (TOC)	mg/L	19.7	18.1 0
Total Suspended Solids (TSS)	mg/L	---	---
Dissolved Organic Carbon (DOC)	mg/L	33.9	18.8 0

Table 6. Logan Wash Mine Retort Water Analytical Data

SampleID		LW-RETORT	LW-003 (DUP)
SampleDate		10/3/2017	10/3/2017
Parameters	Units		
Metals			
Arsenic	ug/L	36.3	38.2
Arsenic (Dissolved)	ug/L	34.9	28.1
Boron	ug/L	---	---
Boron (Dissolved)	ug/L	10100	9470
Cadmium	ug/L	---	---
Cadmium (Dissolved)	ug/L	4.4 U	4.4 U
Calcium	ug/L	---	---
Calcium (Dissolved)	ug/L	77200	78800
Chromium	ug/L	0.32 U	0.32 U
Chromium (Dissolved)	ug/L	6.4 U	6.4 U
Chromium III	ug/L	---	---
Chromium VI	ug/L	---	---
Copper	ug/L	---	---
Copper (Dissolved)	ug/L	18.1 J	16.7 J
Iron	ug/L	19.1 J	2480
Iron (Dissolved)	ug/L	300 U	300 U
Lead	ug/L	---	---
Lead (Dissolved)	ug/L	5.2 U	5.2 U
Lithium	ug/L	---	---
Lithium (Dissolved)	ug/L	475	460
Magnesium	ug/L	---	---
Magnesium (Dissolved)	ug/L	40900	40200
Manganese	ug/L	---	---
Manganese (Dissolved)	ug/L	27.4 J	24.9 J
Mercury	ug/L	---	---
Mercury (Dissolved)	ug/L	0.049 U	0.049 U
Molybdenum (Dissolved)	ug/L	---	---
Nickel	ug/L	---	---
Nickel (Dissolved)	ug/L	---	---
Potassium	ug/L	---	---
Potassium (Dissolved)	ug/L	997000	984000
Selenium	ug/L	---	---
Selenium (Dissolved)	ug/L	6.4 U	6.4 U

Table 6. Logan Wash Mine Retort Water Analytical Data

SampleID		LW-RETORT	LW-003 (DUP)
SampleDate		10/3/2017	10/3/2017
Parameters	Units		
Metals			
Silicon	ug/L	7310	7630
Silicon (Dissolved)	ug/L	---	---
Silver	ug/L	---	---
Silver (Dissolved)	ug/L	---	---
Sodium	ug/L	---	---
Sodium (Dissolved)	ug/L	1330000	1310000
Strontium	ug/L	---	---
Strontium (Dissolved)	ug/L	2070	2080
Uranium (Dissolved)	ug/L	---	---
Zinc	ug/L	---	---
Zinc (Dissolved)	ug/L	38.2 U	38.2 U
Volatile Organic Compounds - BTEX			
Benzene	ug/L	1.59	1.67
Ethylbenzene	ug/L	0.732 J	0.743 J
Toluene	ug/L	0.425 J	0.417 J
Xylenes, Total	ug/L	3.21	3.24
Petroleum Products			
Diesel fuel	mg/L	5.11	5.7
TPH - Extractable	mg/L	---	---
TPH (non-polar)	mg/L	---	---
TPH (C21 - C28)	mg/L	---	---
Radiology			
Gross Alpha Analytes	pci/l		---
Gross Beta Analytes	pci/l		---
Field Parameters			
Conductivity, field	uS/cm	9200	9130
Dissolved oxygen (DO), field	mg/L	27.0	28.6
Oxidation reduction potential (ORP), field	millivolts	-240	-242
pH, field	s.u.	8.55	8.65
Temperature, ambient	Deg C	12.8	12.8
Temperature, field	Deg C	12.9	12.9
Turbidity, field	NTU	7.97	7.01

Notes:

U = result not detected at the reporting limit

J = result value greater than the MDL and less than the RI

B = analyte found in sample and associated blank

HF = analysis holding time exceeded; result considered es:

E = result estimated due to the presence of interference

R = rejected data

--- = Analysis not performed