



February 25, 2020

Alaska Department of Environmental Conservation  
Division of Water  
P.O. Box 111800  
Juneau, AK 99811-1800

**Re: Kensington Gold Mine Waste Management Permit No. 2013DB0005**

Dear Sir and/or Madam:

Waste Management Permit No. 2013DB0002 was issued on September 20, 2013 and became effective on September 20, 2013. Attached please find the fourth quarter 2019 report and the 2019 annual report.

Based on information and belief formed after reasonable inquiry, I certify that the information in this document is true, accurate, and complete.

If you have any questions or require additional information, please contact Kevin Eppers at (907) 523-3328 or by email [keppers@coeur.com](mailto:keppers@coeur.com).

Sincerely,

A handwritten signature in black ink that reads "Mark A. Kiessling".

Mark Kiessling  
General Manager

XC: Matthew Reece – Forest Service\_ electronic copy  
Kyle Moselle – ADNR \_electronic copy  
David Khan – ADEC\_ electronic copy

**Coeur Alaska - Kensington Gold Mine  
Waste Management Permit No. 2013DB0002  
4th Quarter 2019 Report**

**Section 1.7.2**

See attached tables for Monthly Receiving Water Monitoring Results for reporting period

**Section 1.7.3 (Table 1-1)**

Requirement Number	Monitoring Site	Water Quality Analysis Results	Mean Flow/Quantity Results	Frequency
1	Dam Seepage Sump	See Attached Table 1 for Results	See Attached Table 4 for results	(Monthly)
2	TTF Pond	See Attached Table 1 for Results	N/A	Quarterly
3	Upper Slate Lake/(USL) TTF bypass pipe	N/A	See Attached Table 5 for results	Weekly
4	USL to TTF	N/A	No events occurred during the reporting period.	N/A
5	Rainfall	N/A	See Attached Table 6 for results	Monthly
6	Snow	N/A	See Attached Table 6 for results	Cumulative Monthly
7	Graphitic phyllite seeps on the East & West embankments below the dam	Graphitic phyllite seep samples on the western side of the embankment were collected during the third quarter of 2019. No graphitic phyllite seep samples were seen on the east side of the embankment during 2019.	N/A	When Observed (no more frequently than annually)
8	Graphitic phyllite seeps at the Northwest end of the TTF	See table 1 for second quarter 2019 water quality results. Please note that the Sample Name is ARD-SUMP.	N/A	Quarterly when accessible
9	GPPTP effluent	See table 1 for second quarter results for the GPPTP effluent.	N/A	Monthly
10	GPPTP effluent	N/A	See attached Table 7	Monthly Mean -gpm
11	Mine Drainage to WTP	See Attached Table 1 for results	See Attached Table 8 for results	Monthly
12	Mine Sump Sediments	Samples were collected in the 1st quarter of 2019 and no samples were taken during the reporting period as monitoring was reduced to annually since there has been no significant increase in the constituents. See Table 2 for 1st quarter 2019 sample results.	N/A	Quarterly; Can be reduced to annually after 8 quarterly samples show no significant increase in constituents.
13	Pit 3 standing seep water	No standing seep water identified during the reporting period	N/A	Quarterly
14	Tailings as required by POO	See Attached Table 3 for results	N/A	Quarterly
15	Development Rock as required by POO	See Attached Table 3 for results	N/A	Quarterly

**Section 1.7.4.1**

Requirement Number	Monitoring Site	Visual Monitoring Conducted on Following Date (s)	Issues Identified related to damage or potential damage from settlement, ponding, leakage, frost action, erosion, or operations	Frequency
16	TTF dam	Every Day during reporting period of 10-1-19 thru 12-31-19; Inspection forms can be provided upon request.	None	Weekly
17	Tailings Pipeline	Once a week during reporting period of 10-1-19 thru 12-31-19; Inspection forms can be provided upon request.	None	Weekly

Table 1		Total Dissolved Solids	Ammonia as N	Chloride	Temperature	Dissolved Oxygen	pH field	Conductivity	Nitrate as N	Nitrite as N	Sulfate	Lab Turbidity	Total Chromium	Total Recoverable Aluminum	Total Recoverable Iron	Mercury Total
Station Name	Collect Date	mg/L	mg/L	mg/L	oC	mg/L	pH	umhos/cm	mg/L	mg/L	mg/L	NTU	ug/L	ug/L	mg/L	ug/L
Mine Drainage to WTP	9/25/13	134	1.19	1.8	8.2	11.88	9.15	226.7	2.55	0.13	54.1	1080	11.3	46700	77.7	<0.2
Mine Drainage to WTP	10/23/13	236	2.24	7.6	7.9	12.48	8.26	260.1	4.13	0.25	88.3	70.5	<2.5	4600	7.23	<0.2
Mine Drainage to WTP	11/7/13	188	1.96	1.7	7.6	12.12	8.35	221.7	4.48	0.129	57.9	116	<2.5	2680	4.64	<0.2
Mine Drainage to WTP	12/10/13	181	0.56	3.8	7.7	11.83	8.39	284.1	0.95	<0.10	54	170	<2.5	8710	15.6	<0.2
Mine Drainage to WTP	1/6/14	608	11.6	70	8.2	12.22	7.75	1011	24.9	<0.10	198	490	4.2	13000	28.2	<0.2
Mine Drainage to WTP	2/10/14	234	4.7	2.6	6.4	12.37	7.6	186.5	4.88	0.3	72.9	1030	6.4	20800	44.6	<0.2
Mine Drainage to WTP	3/13/14	293	0.62	23.3	7.5	13.65	7.77	521.6	3.3	<0.10	108	320	<2.5	9640	13.9	<0.2
Mine Drainage to WTP	4/9/14	512	1.45	57	8.7	11.19	7.96	556	12.9	0.13	178	386	2.7	6960	12.6	<0.2
Mine Drainage to WTP	5/19/14	123	0.14	<2.0	8.3	10.3	7.76	140.4	0.3	<0.10	32.3	204	<2.5	7750	10.3	<0.2
Mine Drainage to WTP	6/9/14	191	2.28	5.2	8.1	11.93	7.99	210.8	3.06	<0.10	52.2	120	<2.5	5490	7.22	<0.2
Mine Drainage to WTP	7/24/14	878	19	8.9	12.4	10.23	8.01	910	19.8	0.68	455	3110	17.8	53800	111	1.2
Mine Drainage to WTP	8/7/14	296	2.16	10.2	10.2	11.65	8.01	343.2	5.51	0.31	136	356	<2.5	6970	12	<0.2
Mine Drainage to WTP	9/3/14	286	0.84	20	9.4	11.75	7.76	337.3	4.64	<0.10	83.8	238	<2.5	7370	11.9	<0.2
Mine Drainage to WTP	10/23/14	183	0.99	<2.0	7.4	11.84	7.38	176.6	1.62	0.1	54	48.4	<2.5	2790	3.97	<0.2
Mine Drainage to WTP	11/6/14	295	2.4	37	8.9	11.86	8	408.9	7.6	<0.10	83	10.4	<2.5	1460	2.8	<0.2
Mine Drainage to WTP	12/3/14	194	0.32	9.6	6.6	12.45	7.53	205.2	1.24	<0.10	50.6	183	<2.5	4200	7.19	<0.2
Mine Drainage to WTP	1/15/15	185	0.27	3.9	7.4	12.13	7.03	193.7	0.71	<0.10	48.7	8.81	<2.5	1580	2.63	<0.2
Mine Drainage to WTP	2/11/15	303	1.02	20	7.2	12.77	7.47	330.9	5.81	<0.10	79.7	6.2	<2.5	1210	2.18	<0.2
Mine Drainage to WTP	3/12/15	147	0.22	<2.0	7	12.15	6.56	149.9	0.5	<0.10	42.9	38	<2.5	1660	2.82	<0.2
Mine Drainage to WTP	4/2/15	487	2.21	70	7.5	11.72	7.13	496.7	12.2	<0.10	109	5.96	<2.5	1910	1.89	<0.2
Mine Drainage to WTP	5/19/15	403	1.76	39	9.9	10.97	7.11	545	9.1	<0.10	124	110	<2.5	5060	9.03	<0.2
Mine Drainage to WTP	6/8/15	535	2.18	<50	10.8	11.22	6.65	604	11.1	0.14	156	7.03	<2.5	1220	2.18	<0.2
Mine Drainage to WTP	7/7/15	556	1.74	71.6	12.2	11.55	7.05	650	10.5	<0.10	168	120	<2.5	2210	4.2	<0.2
Mine Drainage to WTP	8/10/15	723	2.29	78	12.2	10.48	6.68	850	16.3	0.21	234	<0.10	<2.5	1890	3.83	<0.20
Mine Drainage to WTP	9/1/15	143	0.36	2.5	7.2	13.24	6.49	159	0.82	<0.10	35.1	131	<2.5	3350	4.72	<0.2
Mine Drainage to WTP	10/13/15	109	<0.10	<1.0	7.2	13.97	6.52	131.2	0.14	<0.10	26.8	108	<2.5	2390	4.07	<0.20
Mine Drainage to WTP	11/10/15	217	1.3	6.5	6.9	11.93	8.08	250.4	4.92	0.12	73.4	5.13	<2.5	5430	8.72	<0.20
Mine Drainage to WTP	12/14/15	145	0.16	<1.0	5.3	13.13	8.09	117.1	0.32	<0.10	33.2	30.1	<2.5	2110	3.51	<0.20
Mine Drainage to WTP	1/21/16	495	1.65	75	6.7	11.81	7.79	533	10	<0.10	126	17.9	<2.5	1610	3.16	<0.20
Mine Drainage to WTP	2/11/16	307	0.33	26	7	12.7	8.01	337.8	6.68	<0.050	80.4	15.5	<2.5	2300	3.89	<0.20
Mine Drainage to WTP	3/17/16	147	0.19	7.3	5.5	12.31	9.27	171	1.1	<0.10	58.3	5.13	10.4	984	1.64	<0.20
Mine Drainage to WTP	4/7/16	128	0.74	3	6.1	12.88	8.88	149.7	1.78	0.13	37	13.8	3.3	1780	1.93	<0.20
Mine Drainage to WTP	5/17/16	388	1.27	60	7.9	12.41	7.4	386.2	8.82	<0.10	77.4	27	<2.5	2350	4.07	<0.20
Mine Drainage to WTP	6/23/16	158	0.53	7.5	9.1	11.77	8.55	194.9	2.91	<0.10	63.2	12.4	3	1490	2.56	<0.20
Mine Drainage to WTP	7/19/16	488	2.28	92	12.1	10.85	8.21	497.1	12.2	<0.10	121	10.1	4.6	1300	2.43	<0.20
Mine Drainage to WTP	8/23/16	430	3.81	44	10.3	11.86	8.2	433.7	13	0.38	133	20.2	<2.5	1020	1.62	<0.20
Mine Drainage to WTP	9/22/16	129	<0.10	1.7	7.5	13.6	7.5	128.2	0.434	<0.050	33.3	33	<2.5	872	1.21	<0.20
Mine Drainage to WTP	10/5/16	487	1.71	70	7.9	12.21	7.63	467.7	12.5	<0.10	114	47.2	<2.5	1030	1.66	<0.20
Mine Drainage to WTP	11/17/16	188	0.22	18.8	5.1	12.58	8.04	179.2	2.4	<0.10	66.8	251	2.8	8980	15.6	0.96
Mine Drainage to WTP	12/21/16	624	1.67	79	8.9	10.92	7.77	685	17.8	<0.10	210	12.8	<2.5	2130	3.48	<0.20
Mine Drainage to WTP	1/11/17	193	0.16	2.5	6.3	12.76	7.62	170.2	0.72	<0.10	50.8	465	<2.5	10600	16.7	<0.20
Mine Drainage to WTP	2/9/17	646	0.79	11.6	6.6	11.94	7.79	229	3.35	0.11	74.1	11.3	<2.5	571	0.954	<0.20
Mine Drainage to WTP	3/20/17	162	0.47	10.4	8.2	11.72	10.4	195	2.01	<0.10	74	121	8.7	4820	8.71	<0.20
Mine Drainage to WTP	4/18/17	158	0.13	<2.0	8.7	10.2	7.56	217.3	0.31	<0.10	35.8	905	<2.5	9390	16.1	<0.20
Mine Drainage to WTP	5/16/17	198	0.781	2.1	7.4	14.4	7.98	167.2	0.3	<0.10	48.7	1760	11.5	39800	75.3	0.38
Mine Drainage to WTP	6/22/17	150	0.52	1.1	8.4	15.24	8.04	160.8	1.64	0.055	49.4	104	<2.5	3110	4.61	<0.20
Mine Drainage to WTP	7/26/17	146	0.12	1.2	10.4	11.07	10.89	271	0.527	<0.050	41.9	47.4	6.6	903	1.09	<0.20
Mine Drainage to WTP	8/21/17	141	<0.10	1.3	10.3	11.02	8.5	166.2	0.776	<0.050	48.9	189	<2.5	2830	4.76	<0.20
Mine Drainage to WTP	9/25/17	233	3.19	3.2	9.7	11.48	8.05	263.6	5.48	0.25	98	102	<2.5	2380	4.59	<0.20
Mine Drainage to WTP	10/17/17	203	0.97	<2.0	8.6	10.09	7.17	208.4	0.76	<0.10	56.8	59.4	<2.5	1680	3.24	<0.20
Mine Drainage to WTP	11/9/17	216	0.62	13.9	6.1	12.81	7.71	209	1.77	<0.10	58.2	2740	17.6	61900	117	0.38
Mine Drainage to WTP	12/14/17	233	2.48	6.9	8.6	11.87	8.91	243.3	7.37	0.35	97.8	161	3.7	4390	7.3	<0.20
Mine Drainage to WTP	1/16/18	208	0.66	<2.0	7.7	11.95	8.27	139.2	2.41	<0.10	70.8	142	4	4150	6.5	<0.20
Mine Drainage to WTP	2/8/18	285	2.38	6	7.4	12.88	7.98	269.7	7.46	0.37	117	237	<2.5	8120	14.5	<0.20
Mine Drainage to WTP	3/27/18	469	4.48	9.7	8.5	11.43	7.96	449.9	18.3	0.65	199	92	<2.5	382	0.562	<0.20
Mine Drainage to WTP	4/16/18	189	0.19	<2.0	7.4	11.75	8.06	200	0.9	<0.10	74.9	21.3	<2.5	709	1.08	<0.20
Mine Drainage to WTP	5/24/18	128	<0.10	<2.0	7.2	12.54	8.07	128.06	0.35	<0.10	33.5	123	<2.5	2500	4.19	<0.20
Mine Drainage to WTP	6/25/18	300	2.03	5.9	10.4	11.49	7.98	300.4	7.42	0.33	135	602	<2.5	9810	18.2	<0.20
Mine Drainage to WTP	7/18/18	237	0.92	<2.0	9.6	11.73	7.78	260	0.48	<0.10	87	38	<2.5	1330	1.96	<0.20
Mine Drainage to WTP	8/13/18	285	1.49	<2.0	11.1	10.18	7.9	291.5	1.23	<0.10	114	300	3.1	6720	11.6	<0.20
Mine Drainage to WTP	9/20/18	260	1.29	<2.0	11.1	10.15	7.67	273.4	0.95	<0.10	98.5	628	6.6	13800	26.5	<0.20
Mine Drainage to WTP	10/11/18	272	1.24	<2.0	10.5	10.8	7.82	285.4	0.83	<0.10	116	18	<2.5	989	1.51	<0.20
Mine Drainage to WTP	11/13/18	219	0.82	<2.0	8.9	10.72	7.58	298	0.44	<0.10	70.5	75.5	<2.5	3960	6.21	<0.20
Mine Drainage to WTP	12/6/18	209	0.57	<2.0	8.2	11.85	6.67	210.4	0.5	<0.10	73	0.94	<2.5	551	0.895	<0.20
Mine Drainage to WTP	1/24/19	245	0.55	2.5	9.2	10.34	7.3	219.1	0.78	<0.10	101	93.3	<2.5	3160	6.43	<0.20
Mine Drainage to WTP	2/26/19	225	0.786	2.01	9.5	10.91	7.99	269.4	0.54	<0.050	83.6	10.5	0.6	1270	1.82	<0.00009
Mine Drainage to WTP	3/14/19	249	0.761	1.9	9.6	10.9	7.72	262.9	0.477	<0.050	90.2	32.3	0.7	1000	1.42	<0.00009
Mine Drainage to WTP	4/11/19	222	0.926	2.06	8.9	11.17	7.81	218.4	0.745	0.053	79.9	10.5	0.5	679	0.945	<0.00009
Mine Drainage to WTP	5/7/19	238	0.709	2.07	8.9	10.83	7.43	214.8	0.558	<0.050	68.9	11.2	0.3	433	0.591	<0.00009
Mine Drainage to WTP	6/18/19	218	1.01	2.19	10.3	10.73	7.76	259.3	1.13	0.096	88.4	69.5	1.5	3180	4.73	<0.00009
Mine Drainage to WTP	7/17/19	225	1.08	1.84	11.1	10.35	8	268.5	0.764	0.051	87.3	30.9	1.2	3280	4.51	<0.00009
Mine Drainage to WTP	8/15/19	232	1.12	2.05	12.3	9.39	7.59	320.2	1.32	0.126	116	186	2.3	6000	8.69	<0.00009
Mine Drainage to WTP	9/17/19	259	1.99	2.3	11.9	9.53	8.08	418.6	2.18	0.121	116	39.8	0.5	954	1.45	<0.00009
Mine Drainage to WTP	10/9/19	221	1.01	1.												

Table 1	Hardness, Total	Dissolved Arsenic	Dissolved Cadmium	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Selenium	Dissolved Silver	Dissolved Zinc	
Station Name	Collect Date	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Mine Drainage to WTP	9/25/13	597	<2.5	<0.02	<1.0	<0.16	2.1	<1.0	2.2	<0.1	<2.5
Mine Drainage to WTP	10/23/13	194	<2.5	<0.02	2.9	0.2	21	1.9	1.8	<0.1	5.1
Mine Drainage to WTP	11/7/13	152	<2.5	<0.1	<1.0	<0.16	16.5	<1.0	1.8	<0.1	<2.5
Mine Drainage to WTP	12/10/13	208	<2.5	<0.02	<1.0	<0.16	15	<1.0	1.8	<0.1	<2.5
Mine Drainage to WTP	1/6/14	413	<2.5	<0.02	1.9	<0.16	192	<1.0	1.2	<0.1	4.3
Mine Drainage to WTP	2/10/14	414	<2.5	<0.02	<1.0	<0.16	92	<1.0	1.6	<0.1	<2.5
Mine Drainage to WTP	3/13/14	233	<2.5	<0.02	<1.0	<0.16	54.3	<1.0	1.7	<0.1	<2.5
Mine Drainage to WTP	4/9/14	286	<2.5	<0.02	1.2	<0.16	71.1	<1.0	<1.0	<0.1	<2.5
Mine Drainage to WTP	5/19/14	136	<2.5	<0.02	<1.0	<0.16	42.5	<1.0	1.5	<0.1	<2.5
Mine Drainage to WTP	6/9/14	150	<2.5	<0.02	<1.0	<0.16	34.8	<1.0	1.9	<0.1	<2.5
Mine Drainage to WTP	7/24/14	853	<2.5	<0.02	1.2	<0.16	44.9	2.5	1.5	<0.1	<2.5
Mine Drainage to WTP	8/7/14	234	<2.5	<0.02	<1.0	<0.16	47.5	<1.0	2.3	<0.1	<2.5
Mine Drainage to WTP	9/3/14	214	<2.5	0.14	<1.0	<0.16	124	14.1	2.6	<0.1	8.3
Mine Drainage to WTP	10/23/14	141	<2.5	<0.02	<1.0	<0.16	51.5	<1.0	2.4	<0.1	<2.5
Mine Drainage to WTP	11/6/14	154	<2.5	<0.02	<1.0	<0.16	24	<1.0	2.1	<0.1	<2.5
Mine Drainage to WTP	12/3/14	164	<2.5	<0.02	<1.0	<0.16	41.5	<1.0	2.5	<0.1	<2.5
Mine Drainage to WTP	1/15/15	137	<2.5	<0.02	<1.0	<0.16	26.3	<1.0	2.2	<0.1	<2.5
Mine Drainage to WTP	2/11/15	175	<2.5	<0.02	<1.0	<0.16	64.9	<1.0	2.3	<0.1	3.1
Mine Drainage to WTP	3/12/15	134	<2.5	<0.02	<1.0	<0.16	50.7	<1.0	2.6	<0.1	<2.5
Mine Drainage to WTP	4/2/15	185	<2.5	<0.02	<1.0	<0.16	107	<1.0	1.4	0.2	<2.5
Mine Drainage to WTP	5/19/15	229	<2.5	<0.02	<1.0	<0.16	36.2	<1.0	1.7	<0.1	<2.5
Mine Drainage to WTP	6/8/15	239	<2.5	<0.02	<1.0	<0.2	45	<1.0	2.8	<0.1	<2.5
Mine Drainage to WTP	7/7/15	249	<2.5	<0.02	1.5	<0.16	43	1.1	2.5	<0.1	<2.5
Mine Drainage to WTP	8/10/15	312	<2.5	<0.020	2	<0.16	79.6	2.4	2	0.39	<2.5
Mine Drainage to WTP	9/1/15	121	<2.5	<0.02	<1.0	<0.16	26.2	<1.0	2.3	<0.1	2.6
Mine Drainage to WTP	10/13/15	113	<2.5	<0.020	<1.0	<0.16	20.1	<1.0	2.2	<0.10	<2.5
Mine Drainage to WTP	11/10/15	175	<2.5	<0.020	<1.0	<0.16	36.4	<1.0	2	<0.10	<2.5
Mine Drainage to WTP	12/14/15	114	<2.5	<0.020	<1.0	<0.16	11.2	<1.0	2.2	<0.10	<2.5
Mine Drainage to WTP	1/21/16	199	<2.5	<0.020	<1.0	<0.16	33	1.5	2.4	<0.10	<2.5
Mine Drainage to WTP	2/11/16	179	<2.5	<0.020	<1.0	<0.16	45.7	<1.0	1.4	0.27	<2.5
Mine Drainage to WTP	3/17/16	112	<2.5	<0.020	<1.0	<0.16	3	<1.0	1.6	<0.10	<2.5
Mine Drainage to WTP	4/7/16	105	<2.5	<0.020	<1.0	<0.16	4.5	<1.0	1.4	<0.10	<2.5
Mine Drainage to WTP	5/17/16	167	<2.5	<0.020	1.1	<0.16	35.9	1.3	1.7	<0.10	<2.5
Mine Drainage to WTP	6/23/16	123	<2.5	<0.020	<1.0	<0.16	4.9	<1.0	1.8	<0.10	<2.5
Mine Drainage to WTP	7/19/16	197	<2.5	0.029	2.9	0.24	20.4	1.1	1.9	<0.10	3.1
Mine Drainage to WTP	8/23/16	189	<2.5	<0.020	1.1	<0.16	31	<1.0	1.6	<0.10	3.2
Mine Drainage to WTP	9/22/16	105	<2.5	<0.020	<1.0	<0.16	16.8	<1.0	1.7	<0.10	<2.5
Mine Drainage to WTP	10/5/16		<2.5	<0.020	1.5	<0.16	48.6	1.4	1.8	0.43	2.5
Mine Drainage to WTP	11/17/16	206	<2.5	0.024	<1.0	<0.16	18.9	<1.0	1.5	<0.10	<2.5
Mine Drainage to WTP	12/21/16	259	<2.5	<0.020	<1.0	<0.16	28.8	1.7	1.9	<0.10	<2.5
Mine Drainage to WTP	1/11/17	190	<2.5	0.023	<1.0	<0.16	70.3	<1.0	1.8	<0.10	<2.5
Mine Drainage to WTP	2/9/17	128	<2.5	<0.020	<1.0	<0.16	28.7	<2.0	1.5	<0.10	<2.5
Mine Drainage to WTP	3/20/17	186	<2.5	<0.020	<1.0	<0.16	<1.0	<1.0	1.8	<0.10	<2.5
Mine Drainage to WTP	4/18/17	169	<2.5	0.052	<1.0	<0.16	36.4	<1.0	1.3	<0.10	<2.5
Mine Drainage to WTP	5/16/17	539	<2.5	<0.020	<1.0	<0.16	15.5	<1.0	1.6	<0.10	2.8
Mine Drainage to WTP	6/22/17	129	<2.5	<0.020	1.6	<0.16	19.8	<1.0	1.9	<0.10	<2.5
Mine Drainage to WTP	7/26/17	124	<2.5	<0.020	<1.0	<0.16	<1.0	<1.0	2	<0.10	<2.5
Mine Drainage to WTP	8/21/17	142	<2.5	<0.020	<1.0	<0.16	13.6	<1.0	1.6	<0.10	3.6
Mine Drainage to WTP	9/25/17	179	<2.5	<0.020	1.5	<0.16	3	<1.0	1.5	<0.10	3
Mine Drainage to WTP	10/17/17	163	<2.5	<0.020	1.3	<0.16	4.7	<1.0	1.6	<0.10	2.7
Mine Drainage to WTP	11/9/17	894	<2.5	<0.020	<1.0	<0.16	96.7	<1.0	1.6	<0.10	4.1
Mine Drainage to WTP	12/14/17	192	<2.5	<0.020	<1.0	<0.16	16.9	<1.0	1.8	<0.10	3.9
Mine Drainage to WTP	1/16/18	142	<2.5	0.022	8.8	0.49	5.9	<1.0	2	<0.10	7
Mine Drainage to WTP	2/8/18	255	<2.5	<0.020	<1.0	<0.16	45.6	<1.0	1.6	<0.10	<2.5
Mine Drainage to WTP	3/27/18	253	<2.5	<0.020	<1.0	<0.16	40.4	<1.0	1.6	<0.10	<2.5
Mine Drainage to WTP	4/16/18	146	<2.5	<0.020	<1.0	<0.16	19	<1.0	1.4	<0.10	<2.5
Mine Drainage to WTP	5/24/18	118	<2.5	<0.020	<1.0	<0.16	18.2	<1.0	1.7	<0.10	<2.5
Mine Drainage to WTP	6/25/18	283	<2.5	<0.020	<1.0	<0.16	25.9	<1.0	2.1	<0.10	<2.5
Mine Drainage to WTP	7/18/18	182	<2.5	<0.020	1.1	<0.16	6.4	<1.0	1.5	<0.10	4.6
Mine Drainage to WTP	8/13/18	245	<2.5	0.033	<1.0	<0.16	14.4	<1.0	1.6	<0.10	2.6
Mine Drainage to WTP	9/20/18	312	<2.5	<0.020	1.2	<0.16	18.4	<1.0	1.5	<0.10	3.6
Mine Drainage to WTP	10/11/18	211	<2.5	<0.020	1.8	<0.16	10.2	<1.0	1.3	<0.10	5.4
Mine Drainage to WTP	11/13/18	177	<2.5	<0.020	1	<0.16	7.4	<1.0	1.6	<0.10	3.6
Mine Drainage to WTP	12/6/18	163	<2.5	0.261	1.4	<0.16	6.6	<1.0	1.6	<0.10	5.9
Mine Drainage to WTP	1/24/19	209	<2.5	<0.020	<1.0	<0.16	10.4	<1.0	1.1	<0.10	4.1
Mine Drainage to WTP	2/26/19	190	0.73	<0.06	1.62	<0.14	6.72	<0.5	1.2	<0.061	2.8
Mine Drainage to WTP	3/14/19	185	0.85	<0.06	1.32	<0.14	6.75	<0.5	1	<0.061	2.9
Mine Drainage to WTP	4/11/19	188	0.77	<0.06	1.17	<0.14	14.7	<0.5	1.2	<0.061	8.3
Mine Drainage to WTP	5/7/19	165	0.67	<0.06	1.74	<0.14	5.31	<0.5	1.2	<0.061	4.2
Mine Drainage to WTP	6/18/19	198	0.69	<0.06	0.98	<0.14	8.07	<0.5	1.1	<0.061	3.1
Mine Drainage to WTP	7/17/19	208	0.81	<0.06	1.2	<0.14	7.56	<0.5	1.1	<0.061	3.3
Mine Drainage to WTP	8/15/19	236	0.86	<0.06	0.95	<0.14	10.5	<0.5	1.1	<0.061	3.4
Mine Drainage to WTP	9/17/19	216	0.81	<0.06	1.59	<0.14	10.8	<0.5	1	<0.061	3.3
Mine Drainage to WTP	10/9/19	206	0.57	<0.06	0.98	<0.14	10.7	<0.5	0.9	<0.061	2.5
Mine Drainage to WTP	11/7/19	158	0.65	0.06	1.75	<0.14	6.8	<0.5	1.3	<0.061	4.8
Mine Drainage to WTP	12/11/19	201	0.54	<0.06	1.88	<0.14	12.9	<0.5	1.7	<0.061	3.3
Dam Seepage Sump	9/25/13	697	<2.5	5.3	4	<0.16	119	46.1	2.1	<0.1	447
Dam Seepage Sump	10/23/13	289	<2.5	13.6	7.3	<0.16	343	67.3	1.1	<0.1	740

Table 1		Total Dissolved Solids	Ammonia as N	Chloride	Temperature	Dissolved Oxygen	pH field	Conductivity	Nitrate as N	Nitrite as N	Sulfate	Lab Turbidity	Total Chromium	Total Recoverable Aluminum	Total Recoverable Iron	Mercury Total
Station Name	Collect Date	mg/L	mg/L	mg/L	oC	mg/L	pH	umhos/cm	mg/L	mg/L	mg/L	NTU	ug/L	ug/L	mg/L	ug/L
Dam Seepage Sump	11/11/13	754	0.24	4.2	3.4	11.35	8.72	607	2.35	<0.10	460	8.51	<2.5	327	1.23	<0.2
Dam Seepage Sump	12/11/13	1410	<0.10	4.2	8.7	7.47	7.48	1037	3.56	<0.10	598	3.44	<2.5	113	0.263	<0.2
Dam Seepage Sump	1/6/14	547	0.15	2.1	1.9	11.82	8.78	728.8	1.32	<0.10	301	1.64	<2.5	103	0.163	<0.2
Dam Seepage Sump	2/10/14	402	0.17	3	-0.1	15.01	8.13	266	1.23	<0.10	205	2.61	<2.5	120	0.182	<0.2
Dam Seepage Sump	3/12/14	166	<0.10	2	1.4	12.65	8.08	161.8	0.42	<0.10	71.5	6.44	<2.5	427	0.89	<0.2
Dam Seepage Sump	4/9/14	633	<0.10	4	4.4	7.99	7.67	527	1.84	<0.10	374	1.21	<2.5	28	0.08	<0.2
Dam Seepage Sump	5/19/14	563	<0.10	3.1	10	7.51	7.86	604	2.45	<0.10	291	4.01	<2.5	110	0.636	<0.2
Dam Seepage Sump	6/9/14	498	<0.10	<2.0	9.7	9.32	7.37	448.6	1.41	<0.10	272	38.9	<2.5	1230	7.32	<0.2
Dam Seepage Sump	7/24/14	798	0.12	3	9.7	5.15	7.55	720	1.07	<0.10	424	0.31	<2.5	13	<0.05	<0.2
Dam Seepage Sump	8/7/14	832	0.14	4	11.1	5.24	7.34	820	1.34	<0.10	423	1.13	<2.5	10.9	<0.05	<0.2
Dam Seepage Sump	9/3/14	837	0.14	2.7	10	5.96	7.27	742	0.78	<0.10	416	0.31	<2.5	15	0.056	<0.2
Dam Seepage Sump	10/23/14	702	<0.10	3.2	7.9	5.27	7.19	592	1.54	<0.10	353	0.23	<2.5	13	<0.05	<0.2
Dam Seepage Sump	11/6/14	422	<0.13	2.5	7.8	7.7	7.57	622	0.95	<0.10	376	0.3	<2.5	<10	<0.05	<0.2
Dam Seepage Sump	12/3/14	782	0.13	3.4	6.2	6.5	7.35	677	1.56	<0.10	432	0.29	<2.5	<10	<0.05	<0.2
Dam Seepage Sump	1/15/15	505	<0.10	<2.0	5.8	7.61	7.34	451	0.53	<0.10	248	0.33	<2.5	16	0.059	<0.2
Dam Seepage Sump	2/11/15	671	0.21	2.9	4.2	6.1	7.28	548	0.77	<0.10	330	0.64	<2.5	36	0.233	<0.2
Dam Seepage Sump	3/12/15	627	0.18	3.5	4.2	7.08	6.9	485	0.98	<0.10	308	0.79	<2.5	10.5	0.137	<0.2
Dam Seepage Sump	4/2/15	686	0.2	3.8	5.4	7.7	7.15	537	0.74	<0.10	352	1.04	<2.5	12.1	0.138	<0.2
Dam Seepage Sump	5/19/15	804	0.21	4.7	8.8	5.43	6.88	729	1.83	<0.10	435	0.56	<2.5	10	0.099	<0.2
Dam Seepage Sump	6/8/15	799	0.21	3.1	7.7	6.6	7.02	693	0.88	<0.10	428	1.74	<2.5	350	1.65	<0.2
Dam Seepage Sump	7/7/15	879	0.27	3.9	9.3	5.39	7.21	800	0.95	<0.10	528	0.67	<2.5	30	0.115	<0.2
Dam Seepage Sump	8/10/15	981	0.11	2.8	8.8	5.65	6.75	807	0.66	<0.10	536	0.36	<2.5	<10	<0.05	<0.20
Dam Seepage Sump	9/1/15	893	<0.10	2.2	11.1	8.62	6.55	795	0.47	<0.10	452	1.73	<2.5	37	0.076	<0.2
Dam Seepage Sump	10/13/15	501	<0.10	2	8.3	8.32	6.89	475.5	1.29	<0.10	241	1.09	<2.5	47	0.102	<0.20
Dam Seepage Sump	11/10/15	602	<0.10	2.6	7.2	965.8	7.43	477.2	1.75	<0.10	306	1.39	<2.5	28	0.056	<0.20
Dam Seepage Sump	12/14/15	592	0.14	2.4	4.2	7.27	7.31	439.5	1.01	<0.10	299	0.39	<2.5	19	0.094	<0.20
Dam Seepage Sump	1/21/16	552	0.12	2.2	5.3	6.6	7.22	482	0.78	<0.10	268	0.87	<2.5	292	1.62	<0.20
Dam Seepage Sump	2/11/16	472	<0.10	3	5	9.1	7.58	426.9	1.25	<0.050	226	1.16	<2.5	57	0.112	<0.20
Dam Seepage Sump	3/17/16	595	<0.10	4.2	5	8.24	7.84	551	1.56	<0.10	313	0.53	<2.5	15	0.11	<0.20
Dam Seepage Sump	4/7/16	655	0.16	4.5	5.2	7.37	7.5	537	1.4	<0.10	323	1.14	<2.5	35	0.179	<0.20
Dam Seepage Sump	5/17/16	634	<0.10	2.6	6.5	7.01	7.59	512	1.54	<0.10	332	1.32	<2.5	53	0.273	<0.20
Dam Seepage Sump	6/23/16	748	<0.10	3.4	8.1	5.62	7.23	678	1.89	<0.10	421	0.99	<2.5	<10	0.153	<0.20
Dam Seepage Sump	7/18/16	825	0.18	3.5	9.7	5.92	7.12	667	1.77	<0.10	467	0.99	<2.5	<10	0.129	<0.20
Dam Seepage Sump	8/23/16	841	<0.10	2.2	8.7	6.83	7.09	638	0.61	<0.10	460	1.21	<2.5	15	0.139	<0.20
Dam Seepage Sump	9/22/16	584	<0.10	1.7	9	6.55	7.13	518	0.373	<0.050	126	1.37	<2.5	36	0.283	<0.20
Dam Seepage Sump	10/5/16	752	0.61	2.2	8.4	5.49	7.35	598	0.52	<0.10	390	2.19	<2.5	12	0.227	<0.20
Dam Seepage Sump	11/17/16	584	<0.10	<2.0	6	7.26	7.35	402.8	0.38	<0.10	338	1.29	<2.5	13	0.197	<0.20
Dam Seepage Sump	12/21/16	683	<0.10	4.2	7.2	6.78	7.36	634	1.06	<0.10	410	11.1	<2.5	341	2.05	<0.20
Dam Seepage Sump	1/12/17	510	<0.10	3.4	3.6	10.29	7.94	384.8	0.815	<0.050	292	7.23	<2.5	224	1.32	<0.20
Dam Seepage Sump	2/9/17	642	0.13	2.5	3.9	9.65	7.29	439.8	0.52	<0.10	281	2.69	<2.5	<10	0.278	<0.20
Dam Seepage Sump	3/20/17	836	0.18	5.1	5.3	4.72	7.57	691	1.16	<0.10	468	1.98	<2.5	11	0.186	<0.20
Dam Seepage Sump	4/18/17	229	<0.10	<2.0	2.5	12.69	7.69	194.1	0.21	<0.10	108	7	<2.5	209	1.09	<0.20
Dam Seepage Sump	5/16/17	648	0.061	3.3	8.6	6.12	7.04	511	1.66	<0.10	325	1.29	<2.5	14	0.15	<0.20
Dam Seepage Sump	6/22/17	597	0.13	3	10.5	9.56	7.26	613	1.01	<0.10	354	3.13	<2.5	48	0.414	<0.20
Dam Seepage Sump	7/26/17	845	<0.10	3.3	7.7	5.68	7.59	739	1.26	<0.10	438	1.87	<2.5	24	0.295	<0.20
Dam Seepage Sump	8/21/17	323	<0.10	<1.0	12.7	7.41	6.62	350.1	0.157	<0.050	205	26	<2.5	1060	7.36	<0.20
Dam Seepage Sump	9/25/17	625	<0.10	2.1	9.1	6.6	7.32	597	0.55	<0.10	382	1.51	<2.5	14	0.234	<0.20
Dam Seepage Sump	10/17/17	560	<0.10	<2.0	7.6	7.03	7.42	495.5	0.47	<0.10	295	1.68	<2.5	56	0.567	<0.20
Dam Seepage Sump	11/9/17	666	<0.10	<2.0	7	6.37	7.4	610	0.58	<0.10	180	1.98	<2.5	24	0.296	<0.20
Dam Seepage Sump	12/14/17	119	<0.10	<2.0	3.8	12.05	8.05	113.3	<0.10	<0.10	74.3	12.4	<2.5	532	3.75	<0.20
Dam Seepage Sump	1/16/18	347	<0.10	<2.0	4.5	9.24	7.51	236.6	0.67	<0.10	187	2.45	<2.5	55	0.186	<0.20
Dam Seepage Sump	2/8/18	663	0.26	5.2	6.1	5.78	7.52	513	3.6	<0.10	345	3.44	<2.5	24	0.413	<0.20
Dam Seepage Sump	3/27/18	487	<0.10	7.9	3.6	8.02	7.4	404.4	1.72	<0.10	245	1.32	<2.5	<10	0.159	<0.20
Dam Seepage Sump	4/16/18	164	<0.10	<2.0	2.6	14.01	7.46	151.9	0.15	<0.10	103	1.21	<2.5	85	0.122	<0.20
Dam Seepage Sump	5/24/18	545	<0.10	<5.0	10.3	9.75	9.49	488	1.22	<0.25	318	2.34	15.2	5590	11.8	<0.20
Dam Seepage Sump	6/25/18	297	0.21	6.6	7.5	6.19	7.27	716	11.2	<0.25	495	1.7	<2.5	18	0.233	<0.20
Dam Seepage Sump	7/18/18	998	0.17	7.5	8.6	5.04	7.23	844	15	0.11	527	1.64	<2.5	25	0.214	<0.20
Dam Seepage Sump	8/13/18	1210	0.73	14.6	12.1	8.21	9.04	1146	48	0.74	649	2.42	<2.5	558	0.102	<0.20
Dam Seepage Sump	9/20/18	806	0.34	7.9	10.3	8.05	11.53	946	<0.25	1.25	433	10.1	10.6	175	0.135	<0.20
Dam Seepage Sump	10/11/18	1130	0.15	8.7	8.2	8.38	7.59	998	34.3	<0.10	621	5.26	3.4	200	0.322	<0.20
Dam Seepage Sump	11/13/18	975	0.1	8.4	7.5	7.94	7.08	820	23.1	0.11	593	1.2	<2.5	30	0.129	<0.20
Dam Seepage Sump	12/6/18	920	<0.10	7.8	7.4	8.29	7.22	755	10.8	<0.10	540	1.42	<2.5	<10	0.108	<0.20
Dam Seepage Sump	1/24/19	809	<0.10	6.2	5	7.52	7.61	561	11	<0.10	550	2.13	<2.5	11	0.209	<0.20
Dam Seepage Sump	2/26/19	918	0.304	6.24	5.6	5.9	7.17	706	10.3	<0.050	495	2.65	0.3	17.3	0.322	<0.09
Dam Seepage Sump	3/14/19	930	0.299	7.37	16.2	7.66	8.1	977	8.8	<0.050	504	4.64	0.3	43.2	0.415	<0.09
Dam Seepage Sump	4/11/19	777	0.098	5.21	6.2	6.75	7.36	595	7.74	<0.050	419	1.98	7.3	40.6	0.256	<0.0009
Dam Seepage Sump	5/7/19	867	0.155	5.29	5.7	11.15	7.28	645	7.31	<0.050	446	1.9	0.3	18.7	0.201	<0.0009
Dam Seepage Sump	6/18/19	882	0.077	6.79	7.3	5.54	7.22	757	8.26	<0.050	478	1.76	0.2	10.3	0.186	<0.0009
Dam Seepage Sump	7/17/19	1130	0.094	6.54	7.1	4.9	7.4	928	8.52	<0.050	583	3	0.2	20.9	0.316	<0.0009
Dam Seepage Sump	8/15/19	661	0.064	5.71	10.5	7.287	6.89	714	4.82	<0.050	370	6.13	0.3	71.5	0.606	<0.0009
Dam Seepage Sump	9/17/19	1010	0.073	7.88	9.4	6.09	7.31	1228	6.65	<0.050	577	2.91	0.2	8	0.228	<0.0009
Dam Seepage Sump	10/9/19	980	0.049	4.8	7.7	7.25	7.57	830	5.35	<0.050	569	1.26	0.3	9.7	0.146	<0.0009
Dam Seepage Sump	11/7/19	837	0.054	3.78	7.8	8.25	7.24	737	3.87	<0.050	449	1.19	0.3	23.2	0.162	<0.0009
Dam Seepage Sump	12/11/19	780	0.059	4.39	7.2	6.61	7.1	656	4.2	<0.050	431	2.13	0.3	46.7	0.212	

Table 1		Hardness, Total	Dissolved Arsenic	Dissolved Cadmium	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Selenium	Dissolved Silver	Dissolved Zinc
Station Name	Collect Date	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Dam Seepage Sump	11/11/13	507	<2.5	6.26	4.6	<0.16	723	56.1	2.1	<0.1	281
Dam Seepage Sump	12/11/13	685	<2.5	3.97	3.2	<0.16	53.6	34.5	2.8	<0.1	312
Dam Seepage Sump	1/6/14	359	<2.5	2.53	3.6	<0.16	513	24.2	2.9	<0.1	107
Dam Seepage Sump	2/10/14	267	<2.5	4.24	3.1	<0.16	329	29.2	1.4	<0.1	204
Dam Seepage Sump	3/12/14	118	<2.5	0.99	3.5	<0.16	135	11.3	1.3	<0.1	54.6
Dam Seepage Sump	4/9/14	415	<2.5	1.26	1.9	<0.16	244	12.1	<1.0	<0.1	117
Dam Seepage Sump	5/19/14	354	<2.5	2.47	3.8	<0.16	161	22.5	1.7	<0.1	119
Dam Seepage Sump	6/9/14	307	<2.5	14.2	4.5	<0.16	421	63.7	1.3	<0.1	880
Dam Seepage Sump	7/24/14	533	<2.5	2.8	3	<0.16	279	26.7	1.3	<0.1	298
Dam Seepage Sump	8/7/14	569	<2.5	3.04	2.9	<0.16	236	25.1	1.1	<0.1	311
Dam Seepage Sump	9/3/14	562	<2.5	2.9	3.1	<0.16	309	25.3	1.4	<0.1	305
Dam Seepage Sump	10/23/14	480	<2.5	1.9	2.4	<0.16	185	18.4	<1.0	<0.1	199
Dam Seepage Sump	11/6/14	494	<2.5	1.8	1.7	<0.16	350	15.2	1.1	<0.1	167
Dam Seepage Sump	12/3/14	546	<2.5	1.78	1.7	<0.16	366	14.4	1.3	<0.1	164
Dam Seepage Sump	1/15/15	352	<2.5	0.8	1.3	<0.16	321	7.8	<1.0	<0.1	72.9
Dam Seepage Sump	2/11/15	457	<2.5	1.28	1.4	<0.16	558	11.2	<1.0	<0.1	122
Dam Seepage Sump	3/12/15	437	<2.5	1.18	1.3	<0.16	751	11.6	<1.0	<0.1	119
Dam Seepage Sump	4/2/15	437	<2.5	1.27	1.2	<0.16	680	11.1	<1.0	<0.1	124
Dam Seepage Sump	5/19/15	556	<2.5	1.9	2	<0.16	534	14.4	<1.0	<0.1	197
Dam Seepage Sump	6/8/15	554	<2.5	2.2	1.7	<0.16	770	19.7	1.5	<0.1	235
Dam Seepage Sump	7/7/15	622	<2.5	2.58	2	<0.16	586	22.8	1	<0.1	280
Dam Seepage Sump	8/10/15	660	<2.5	2.48	2	<0.16	388	21.2	1.4	<0.10	265
Dam Seepage Sump	9/1/15	578	<2.5	2.87	2.6	<0.16	295	18.9	1.6	<0.1	265
Dam Seepage Sump	10/13/15	364	<2.5	0.831	1.9	<0.16	214	9.4	<1.0	<0.10	75.3
Dam Seepage Sump	11/10/15	412	<2.5	0.978	2.2	<0.16	69.1	8.5	1	<0.10	88.6
Dam Seepage Sump	12/14/15	402	<2.5	1.14	1.7	<0.16	260	8.5	1.1	<0.10	110
Dam Seepage Sump	1/21/16	385	<2.5	0.959	1.6	<0.16	480	7.5	1.1	<0.10	88
Dam Seepage Sump	2/11/16	356	<2.5	0.749	1.6	<0.16	239	6.8	<1.0	<0.10	74.2
Dam Seepage Sump	3/17/16	429	<2.5	1	1.2	<0.16	301	8.2	1	<0.10	88.9
Dam Seepage Sump	4/7/16	418	<2.5	0.944	1.6	<0.16	434	8.3	1.2	<0.10	93
Dam Seepage Sump	5/17/16	439	<2.5	1.05	1.8	<0.16	248	11.9	1.4	<0.10	106
Dam Seepage Sump	6/23/16	564	<2.5	1.73	2.1	<0.16	297	14.3	1.4	<0.10	181
Dam Seepage Sump	7/18/16	564	<2.5	1.57	2.2	<0.16	241	13.8	1.8	<0.10	174
Dam Seepage Sump	8/23/16	543	<2.5	2.04	2.1	<0.16	282	15.5	2.2	<0.10	193
Dam Seepage Sump	9/22/16	432	<2.5	1.21	2.2	<0.16	276	10	1.3	<0.10	114
Dam Seepage Sump	10/5/16	555	<2.5	1.6	2.1	<0.16	409	11.8	1.8	<0.10	144
Dam Seepage Sump	11/17/16	406	<2.5	0.874	1.3	<0.16	259	6.9	1.6	<0.10	72.8
Dam Seepage Sump	12/21/16	431	<2.5	3.23	2.5	<0.16	441	21	<1.0	<0.10	305
Dam Seepage Sump	1/12/17	368	<2.5	3.37	2.1	<0.16	262	25.2	<1.0	<0.10	334
Dam Seepage Sump	2/9/17	361	<2.5	0.6	1.1	<0.16	340	5	1.2	<0.10	52.7
Dam Seepage Sump	3/20/17	537	<2.5	0.972	1.5	<0.16	635	5.6	<1.0	<0.10	115
Dam Seepage Sump	4/18/17	140	<2.5	1.98	1.8	<0.16	140	16.3	<1.0	<0.10	181
Dam Seepage Sump	5/16/17	442	<2.5	0.985	1.5	<0.16	267	7.6	<1.0	<0.10	95
Dam Seepage Sump	6/22/17	429	<2.5	1.45	2.2	<0.16	457	13.5	1.3	<0.10	124
Dam Seepage Sump	7/26/17	595	<2.5	1.54	1.4	<0.16	361	13.1	2.2	<0.10	151
Dam Seepage Sump	8/21/17	228	<2.5	20.9	15	<0.16	689	103	1.4	<0.10	1840
Dam Seepage Sump	9/25/17	482	<2.5	1.51	1.9	<0.16	299	10.8	2.4	<0.10	145
Dam Seepage Sump	10/17/17	382	<2.5	0.894	1.6	<0.16	279	7	2.2	<0.10	83
Dam Seepage Sump	11/9/17	453	<2.5	0.961	1.6	<0.16	297	7	1.7	<0.10	92.5
Dam Seepage Sump	12/14/17	88.5	<2.5	5.45	6.4	<0.16	188	35.8	<1.0	<0.10	534
Dam Seepage Sump	1/16/18	222	<2.5	0.273	1.9	<0.16	215	2.9	<1.0	<0.10	30.3
Dam Seepage Sump	2/8/18	442	<2.5	0.675	1.1	<0.16	330	3.7	<1.0	<0.10	77.3
Dam Seepage Sump	3/27/18	330	<2.5	0.359	<1.0	<0.16	297	3.5	1.2	<0.10	42.7
Dam Seepage Sump	4/16/18	112	<2.5	2.12	1.4	<0.16	148	20.2	<1.0	<0.10	228
Dam Seepage Sump	5/24/18	404	6	0.135	2.2	<0.16	180	10.3	12.6	<0.10	3.9
Dam Seepage Sump	6/25/18	585	<2.5	1.23	2.7	<0.16	325	8.1	3.8	<0.10	103
Dam Seepage Sump	7/18/18	577	<2.5	1.6	2.4	<0.16	349	11	3.6	<0.10	126
Dam Seepage Sump	8/13/18	638	<2.5	12.9	21.9	<0.16	255	76	9.1	<0.10	76.4
Dam Seepage Sump	9/20/18	467	<2.5	<0.020	15.7	<0.16	<1.0	3.4	3.9	<0.10	2.6
Dam Seepage Sump	10/11/18	646	<2.5	2.6	4.8	<0.16	197	15	3.3	<0.10	203
Dam Seepage Sump	11/13/18	601	<2.5	1.63	2.3	<0.16	293	9.7	1.9	<0.10	131
Dam Seepage Sump	12/6/18	555	<2.5	1.29	2	<0.16	199	9.3	1.4	<0.10	108
Dam Seepage Sump	1/24/19	551	<2.5	0.815	1.4	<0.16	367	6.3	1.9	<0.10	76.5
Dam Seepage Sump	2/26/19	607	0.23	0.87	1.37	<0.14	437	6.2	2.4	<0.061	83.1
Dam Seepage Sump	3/14/19	562	0.47	0.39	1.16	<0.14	448	5	1.8	<0.061	48.9
Dam Seepage Sump	4/11/19	538	0.24	0.77	1.23	<0.14	392	6	2.5	<0.061	75.1
Dam Seepage Sump	5/7/19	539	0.3	0.75	1.61	<0.14	377	6.3	2.3	<0.061	92.4
Dam Seepage Sump	6/18/19	567	0.23	1.04	1.78	<0.14	353	8.5	2	<0.061	122
Dam Seepage Sump	7/17/19	752	0.31	1.28	1.99	<0.14	474	10.8	4.1	<0.061	170
Dam Seepage Sump	8/15/19	457	0.26	0.84	1.93	<0.14	335	11.6	1.8	<0.061	169
Dam Seepage Sump	9/17/19	735	0.22	1.39	2.15	<0.14	434	11.9	3.1	<0.061	175
Dam Seepage Sump	10/9/19	658	0.22	1.58	2.48	<0.14	308	12.4	2.7	<0.061	169
Dam Seepage Sump	11/7/19	573	0.38	0.98	1.92	<0.14	306	7.6	2.4	<0.061	91
Dam Seepage Sump	12/11/19	522	0.35	0.8	1.71	<0.14	288	6.3	2.3	<0.061	80.4
GPPTP	9/30/13	793	<2.5	1.9	1.4	<0.16	808	5	2.9	<0.1	8
GPPTP	10/23/13	349	<2.5	0.13	1.4	<0.16	43.3	5.1	1.3	<0.1	3.8
GPPTP	11/11/13	531	<2.5	0.23	1.5	<0.16	187	9.9	1.7	<0.1	9.5
GPPTP	4/22/14	186	<2.5	3.6	2.1	<0.16	84.7	15.1	1.7	<0.1	189
GPPTP	6/4/14	279	<2.5	1.47	3.9	<0.16	57.2	11.1	1.1	<0.1	109

Table 1		Total Dissolved Solids	Ammonia as N	Chloride	Temperature	Dissolved Oxygen	pH field	Conductivity	Nitrate as N	Nitrite as N	Sulfate	Lab Turbidity	Total Chromium	Total Recoverable Aluminum	Total Recoverable Iron	Mercury Total
Station Name	Collect Date	mg/L	mg/L	mg/L	oC	mg/L	pH	umhos/cm	mg/L	mg/L	mg/L	NTU	ug/L	ug/L	mg/L	ug/L
GPPTP	7/24/14	742	0.1	38	18.9	6.4	9.6	798	0.19	<0.10	421	2.38	<2.5	160	0.102	<0.2
GPPTP	8/11/14	602	0.26	8.7	15.4	8.56	7.92	629	<0.10	<0.10	343	12.8	<2.5	132	1.04	<0.2
GPPTP	9/18/14	613	0.18	13	20.2	6	9.27	725	0.12	<0.10	356	25.3	<2.5	166	0.398	<0.2
GPPTP	10/27/14	972	0.2	130	17.3	8.8	8.92	820	0.25	<0.10	296	2.65	<2.5	79	0.072	<0.2
GPPTP	1/26/15	244	<0.10	19	5.3	13.08	7.62	222.7	0.11	<0.10	121	12.5	<2.5	655	1.47	<0.2
GPPTP	3/16/15	376	<0.10	39	2	14.76	5.9	247.2	0.32	<0.10	137	13.4	<2.5	342	1.01	<0.2
GPPTP	4/13/15	466	<0.10	59	6.9	12.6	7.11	408.9	0.25	<0.10	182	3.07	<2.5	220	0.366	<0.2
GPPTP	5/18/15	573	0.21	11.9	19.9	7.6	6.63	667	0.34	<0.10	326	1.04	<2.5	59	0.1	<0.2
GPPTP	6/4/15	514	0.18	24	14.4	9.7	6.2	5.81	0.97	<0.10	283	28.5	<2.5	232	1.03	<0.2
GPPTP	7/13/15	511	0.13	6.4	16.2	9.38	6.5	5.77	0.11	<0.10	152	4.8	<2.5	124	0.528	<0.2
GPPTP	8/17/15	531	0.13	9.6	17.2	9.33	6.98	590	0.29	<0.10	308	3.05	<2.5	118	0.335	<0.20
GPPTP	9/1/15	351	<0.10	15.6	9.4	11.58	6.66	366.5	<0.10	<0.10	188	46.4	<2.5	969	2.44	<0.2
GPPTP	10/12/15	351	<0.10	33.1	8.5	11.82	6.81	317.8	<0.10	<0.10	152	6.98	<2.5	570	1.28	<0.20
GPPTP	11/4/15	288	<0.10	18.2	6.3	12.56	6.29	330.3	0.11	<0.10	146	6.2	<2.5	393	1.54	<0.20
GPPTP	12/15/15	511	0.14	22	8.2	11.4	6.73	464	0.11	<0.10	249	5.68	<2.5	95.8	0.548	<0.2
GPPTP	1/21/16	647	<0.10	25.9	10.7	9.42	6.53	615	0.2	<0.10	322	1.49	<2.5	24	0.131	<0.20
GPPTP	2/18/16	460	0.41	3.9	8.2	10.77	6.58	415.7	0.17	<0.10	262	1.14	<2.5	19	0.198	<0.20
GPPTP	3/24/16	390	0.19	16.3	14.3	8.35	6.35	350.9	0.17	<0.10	211	3.8	<2.5	46	1.58	<0.20
GPPTP	4/7/16	365	0.16	22.5	9.8	10.11	7.15	366.2	0.15	<0.10	171	0.72	<2.5	87	0.076	<0.20
GPPTP	5/19/16	472	0.4	23	16.2	7.5	7.18	434.9	0.43	<0.10	278	2.76	<2.5	54	0.616	<0.20
GPPTP	6/16/16	643	<0.10	81	16.2	8.8	5.95	5.1	0.41	<0.10	200	0.14	3.1	11	<0.05	<0.20
GPPTP	7/21/16	352	3.81	14.9	18.8	6.26	6.54	415.1	0.2	<0.10	84.7	2.56	<2.5	91	0.842	<0.20
GPPTP	8/9/16	512	<0.10	28	16.5	985.6	9.27	514	0.2	<0.10	300	0.28	<2.5	301	<0.05	<0.20
GPPTP	9/20/16	303	<0.10	22	14.5	8.45	7.23	336.2	<0.10	<0.10	175	1.72	<2.5	323	0.169	<0.20
GPPTP	10/6/16	452	0.13	19.7	11.5	10.61	6.47	431.7	<0.10	<0.10	273	0.53	<2.5	108	0.06	<0.20
GPPTP	11/29/16	410	0.14	18.9	19.6	6.8	6.35	348.2	0.19	<0.10	230	2.45	<2.5	126	0.463	<0.20
GPPTP	12/28/16	223	0.14	20	N/A	N/A	6.82	384	0.15	<0.10	114	27.8	<2.5	594	6.74	<0.20
GPPTP	1/25/17	213	<0.10	15.4	15.6	8.25	7.47	394.3	<0.10	<0.10	114	4.89	<2.5	69	0.57	<0.20
GPPTP	4/18/17	686	0.79	135	12.3	8.48	7.3	687	0.86	<0.10	236	0.64	<2.5	193	<0.05	<0.20
GPPTP	5/16/17	1340	1.97	100	14.7	9.53	7.04	1251	23.9	0.1	664	0.8	<2.5	24	0.089	<0.20
GPPTP	6/22/17	411	<0.10	47	14.9	9.03	7.44	498.1	0.19	<0.10	221	0.36	<2.5	16	<0.05	<0.20
GPPTP	7/26/17	398	0.19	13.3	17.9	6.74	7.81	469.4	0.28	<0.10	206	1.77	4.2	79	0.18	<0.20
GPPTP	8/28/17	273	0.23	9.8	18.3	3.28	7.83	335.9	0.18	<0.10	172	13.8	<2.5	36	0.541	<0.20
GPPTP	9/25/17	564	<0.10	120	15.8	7.3	7.32	595	<0.10	<0.10	178	0.43	<2.5	226	0.069	<0.20
GPPTP	10/26/17	228	0.75	<20	2.5	5.7	7.7	256	1.22	<0.10	104	6.6	<2.5	114	0.991	<0.20
GPPTP	11/9/17	441	3.69	36	16.7	7.59	7.67	543	7.74	0.3	204	1.22	<2.5	202	0.112	<0.20
GPPTP	12/19/17	213	<0.10	24.1	12.2	8.84	6.89	233.2	<0.10	<0.10	91.9	5	<2.5	286	0.735	<0.20
GPPTP	4/16/18	422	<0.10	7.5	12.6	8.81	7.3	444.9	<0.10	<0.10	282	0.37	<2.5	42	0.053	<0.20
GPPTP	6/25/18	949	<0.10	44	15.3	7.22	7.12	893	0.28	<0.10	648	1.84	<2.5	113	<0.05	<0.20
GPPTP	7/18/18	1980	0.14	500	17	7.12	9.51	2254	1.01	<0.10	558	0.43	4.2	65	<0.05	<0.20
GPPTP	8/13/18	1540	0.84	180	15.7	7.79	7.51	1559	10.8	<0.10	904	0.38	<2.5	11	<0.05	<0.20
GPPTP	9/17/18	2520	0.48	510	13	9.67	8.28	7.3	18.2	0.2	1260	0.96	4	29	<0.05	<0.20
GPPTP	10/15/18	629	0.12	22.4	13.8	8.7	7.01	642	5.28	<0.10	395	2.64	<2.5	12	0.251	<0.20
GPPTP	11/13/18	295	0.74	19	16.2	7.82	7.05	130.5	3.35	0.33	159	3.14	3.3	233	0.206	<0.20
GPPTP	12/6/18	1170	0.16	15.7	15.9	7.8	7.84	1122	9.78	0.33	776	1.1	<2.5	<10	0.22	<0.20
GPPTP	4/1/19	2120	1.79	58.9	9	9.05	7.32	15.75	11.8	<0.050	1280	8.71	0.4	120	1.81	<0.00009
GPPTP	5/7/19	1820	0.209	8.21	16.7	7	7.45	1644	8.32	<0.050	1320	0.493	0.2	24.1	0.102	<0.00009
GPPTP	6/18/19	2460	0.322	236	16.5	9	7.01	2141	9.84	<0.050	1310	0.788	2.4	123	0.232	<0.00009
GPPTP	7/17/19	2020	0.555	59.2	17.3	6.07	7.95	1863	6.32	0.197	1200	0.416	0.8	26.1	0.494	<0.00009
GPPTP	8/15/19	2000	0.644	26.9	17.8	6.52	7.16	1774	4.17	0.234	1270	2.03	0.4	13	0.262	<0.00009
GPPTP	9/17/19	1770	0.359	17.2	16.8	8.41	7.15	2242	7.22	0.061	1280	0.555	0.7	8	0.088	<0.00009
GPPTP	10/9/19	1070	0.354	45.9	15.6	4.88	10.11	1087	1.91	0.071	679	4.15	1.5	4710	0.603	<0.00009
GPPTP	11/7/19	360	0.11	14.5	14.3	6.76	7.15	446.8	<0.050	<0.050	235	3.12	0.3	135	0.297	<0.00009
GPPTP	12/5/19	494	0.197	26.4	16	6.6	7.6	583	0.126	<0.050	322	7.54	0.4	138	0.248	<0.00009
GP Western Seep	9/30/13	1430	<0.10	<2.0	13.3	8.39	6.99	1607	<0.10	<0.10	960	29.3	<2.5	5090	3.73	<0.2
GP Eastern Seep	9/30/13	436	<0.10	2.9	11.1	7	3.42	458.5	<0.10	<0.10	306	15	<2.5	6050	8.97	<0.2
GP Western Seep	9/3/14	959	<0.10	<2.0	12.2	8.46	7.02	867	<0.10	<0.10	581	15.7	<2.5	1750	4.91	<0.2
GP Eastern Seep	9/3/14	259	<0.10	2.2	12	9.33	7.28	268.5	<0.10	<0.10	124	6.65	<2.5	415	2.46	<0.2
GP Western Seep	9/1/15	582	<0.10	<2.0	15.8	8.09	5.22	615	<0.10	<0.10	353	86.5	3.7	1290	21.8	<0.2
GP Eastern Seep	9/1/15	217	<0.10	<2.0	10.7	9.52	3.74	563	<0.10	<0.10	115	3.94	3	6570	12.2	<0.2
GP Western Seep	9/22/16	256	<0.10	<1.0	8	11.02	5.49	235.9	<0.050	<0.050	183	25.1	<2.5	2310	10.4	<0.20
GP Eastern Seep	9/22/16	153	<0.10	1.4	8.3	9.86	5.94	168.6	<0.050	<0.050	64.5	12.7	<2.5	821	2.94	<0.20
GP Western Seep	9/25/17	312	<0.10	<2.0	10.9	9.64	7.23	295.1	<0.10	<0.10	215	4.31	<2.5	464	1.01	<0.20
GP Eastern Seep	9/25/17	251	<0.10	<2.0	10.6	8.31	7.34	266.2	<0.10	<0.10	163	3.51	<2.5	241	1.58	<0.20
GP Western Seep	9/26/19	688	<0.030	1.14	9.1	11.64	3.72	824	<0.050	<0.050	461	88.2	6.3	9580	14.3	<0.00009
TTF Pond	9/25/13	571	1.32	6.2	12.8	4.67	7.36	862	3.38	<0.10	325	3.32	<2.5	237	0.195	<0.2
TTF Pond	10/23/13	537	1.23	7.5	8.4	8.1	7.71	772	3.54	<0.10	299	6.44	<2.5	215	0.279	<0.2
TTF Pond	12/10/13	550	1.13	8.2	2.3	10.41	8.12	458.3	3.34	<0.10	306	1.42	<2.5	80.4	0.103	<0.2
TTF Pond	1/6/14	388	1	5.6	-0.1	10.47	7.98	564.8	2.7	<0.10	220	0.67	<2.5	31	0.075	<0.2
TTF Pond	2/10/14	589	1.67	7.9	1.7	8.08	7.72	455.2	4.48	<0.10	306	1.91	<2.5	58	0.296	<0.2
TTF Pond	3/12/14	595	2.27	8	1.9	5.09	7.73	512	5.75	<0.10	359	0.55	<2.5	35.8	0.07	<0.2
TTF Pond	4/9/14	641	2.55	8.9	1.9	4.78	7.62	522	6.46	<0.10	384	1.89	<2.5	43	0.083	<0.2
TTF Pond	5/19/14	590	2.52	7.2	9.4	9	8.29	542	5.96	<0.10	303	1.86	<2.5	60	0.069	<0.2
TTF Pond	6/9/14	572	2.43	7.6	12.9	8.74	7.6	624	6.01	<0.10	323	1.62	<2.5	55	0.062	<0.2
TTF Pond	7/24/14	414	0.98	6.1	18.2											

Table 1		Hardness, Total	Dissolved Arsenic	Dissolved Cadmium	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Selenium	Dissolved Silver	Dissolved Zinc
Station Name	Collect Date	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
GPPTP	7/24/14	455	<2.5	0.43	3.2	<0.16	171	5.8	2.1	<0.1	24.4
GPPTP	8/11/14	417	<2.5	0.12	<1.0	<0.16	564	6.2	1.8	<0.1	5.8
GPPTP	9/18/14	425	<2.5	<0.02	1.7	<0.16	6.4	<1.0	1.3	<0.1	<2.5
GPPTP	10/27/14	550	<2.5	0.08	2.5	<0.16	10	1.9	<1.0	<0.1	6.3
GPPTP	1/26/15	181	<2.5	2.4	1.5	<0.16	121	18.1	<1.0	<0.1	150
GPPTP	3/16/15	249	<2.5	1.67	1.1	<0.16	149	12.1	<1.0	<0.1	123
GPPTP	4/13/15	283	<2.5	0.77	1.6	<0.16	42.7	4.2	<1.0	<0.1	62
GPPTP	5/18/15	378	<2.5	0.55	2.2	<0.16	176	4.4	1.3	<0.1	21.4
GPPTP	6/4/15	371	<2.5	0.64	3	<0.16	147	5.1	1.1	<0.1	36.7
GPPTP	7/13/15	335	<2.5	1.09	3.1	<0.16	208	10.8	1.4	<0.1	51.6
GPPTP	8/17/15	350	<2.5	1.61	2.3	<0.16	58.6	5.4	<1.0	<0.10	80
GPPTP	9/1/15	255	<2.5	1.27	1.9	<0.16	73.3	21.5	1.8	<0.1	23.4
GPPTP	10/12/15	220	<2.5	5.04	6.6	<0.16	185	23.8	<1.0	<0.10	456
GPPTP	11/4/15	203	<2.5	5.62	2.8	<0.16	251	33	<1.0	<0.10	565
GPPTP	12/15/15	362	<2.5	2.68	3	<0.16	572	29.4	1.1	<0.1	211
GPPTP	1/21/16	430	<2.5	0.882	2.1	<0.16	209	12.3	<1.0	<0.10	55.8
GPPTP	2/18/16	321	<2.5	0.159	1.6	<0.16	695	8.5	<1.0	<0.10	24.9
GPPTP	3/24/16	251	<2.5	0.058	<1.0	<0.16	182	3	<1.0	<0.10	13.4
GPPTP	4/7/16	226	<2.5	0.324	1.8	<0.16	108	3.8	1	<0.10	26.8
GPPTP	5/19/16	335	<2.5	0.11	2.9	<0.16	67.1	2.2	1.1	<0.10	11.6
GPPTP	6/16/16	317	<2.5	0.1	2	<0.16	20.5	14.7	<1.0	<0.10	15.4
GPPTP	7/21/16	230	<2.5	0.166	3	<0.16	43.1	4	1.2	<0.10	15.6
GPPTP	8/9/16	336	<2.5	0.187	3	<0.16	9.1	2	<1.0	<0.10	9.9
GPPTP	9/20/16	239	<2.5	0.55	3.1	<0.16	53.1	5.1	<1.0	<0.10	38.5
GPPTP	10/6/16	314	<2.5	0.33	1.9	<0.16	29	4.5	1.1	<0.10	31.5
GPPTP	11/29/16	270	<2.5	1.97	2.3	<0.16	238	16.5	<1.0	<0.10	166
GPPTP	12/28/16	163	<2.5	2.94	3.2	<0.16	276	15	<1.0	<0.10	288
GPPTP	1/25/17	126	<2.5	0.091	<1.0	<0.16	151	1.4	<1.0	<0.10	<2.5
GPPTP	4/18/17	410	<2.5	0.092	7.6	<0.16	20.5	10.6	1.6	<0.10	10
GPPTP	5/16/17	815	<2.5	0.246	2.1	<0.16	100	4.6	<1.0	<0.10	32.4
GPPTP	6/22/17	267	<2.5	0.037	2.5	<0.16	7.3	15.8	<1.0	<0.10	5.3
GPPTP	7/26/17	272	<2.5	0.709	2	<0.16	300	33	<1.0	<0.10	40.2
GPPTP	8/28/17	174	<2.5	0.232	1.4	<0.16	168	4.7	<1.0	<0.10	15.8
GPPTP	9/25/17	366	<2.5	0.632	2.3	<0.16	30.3	5	<1.0	<0.10	159
GPPTP	10/26/17	149	<2.5	0.747	1.4	<0.16	123	4.7	<1.0	<0.10	45.5
GPPTP	11/9/17	255	<2.5	0.452	1.8	<0.16	31.3	2.3	<1.0	<0.10	25.9
GPPTP	12/19/17	152	<2.5	1.09	1.2	<0.16	101	7.7	<1.0	<0.10	73
GPPTP	4/16/18	280	<2.5	0.25	<1.0	<0.16	149	4.6	<1.0	<0.10	14.1
GPPTP	6/25/18	687	<2.5	1.82	2.7	<0.16	172	17.9	3.1	<0.10	216
GPPTP	7/18/18	1330	<2.5	0.053	8	<0.16	20.5	5.3	5.9	<0.10	14.7
GPPTP	8/13/18	968	<2.5	0.047	<1.0	<0.16	24	1.2	1.5	<0.10	14.1
GPPTP	9/17/18	1810	<2.5	0.033	1.4	<0.16	19.7	4.8	<1.0	<0.10	8.2
GPPTP	10/15/18	411	<2.5	0.023	<1.0	<0.16	15.4	<1.0	1.5	<0.10	6
GPPTP	11/13/18	168	<2.5	0.103	1.6	<0.16	26.3	5	<1.0	<0.10	11.4
GPPTP	12/6/18	797	<2.5	0.274	<1.0	<0.16	1700	12.2	1.6	<0.10	27.8
GPPTP	4/1/19	1350	<0.21	2.51	1.03	<0.14	7470	91.2	1.1	<0.061	351
GPPTP	5/7/19	1240	<0.21	0.11	<0.36	<0.14	63.3	2.7	0.3	<0.061	19.3
GPPTP	6/18/19	1540	<0.21	0.41	3.53	<0.14	54.7	10.4	0.3	<0.061	64.7
GPPTP	7/17/19	1340	<0.21	0.1	0.87	<0.14	20.1	2.4	0.5	<0.061	34.2
GPPTP	8/15/19	1220	<0.21	0.13	<0.36	<0.14	54	3.4	0.2	<0.061	36.2
GPPTP	9/17/19	1280	<0.21	0.09	0.48	<0.14	367	4.2	0.3	<0.061	33
GPPTP	10/9/19	675	<0.21	<0.06	4.01	<0.14	0.668	1.2	2.1	<0.061	4
GPPTP	11/7/19	265	<0.21	1.63	2.34	<0.14	51.9	6	1.1	<0.061	92.2
GPPTP	12/5/19	305	<0.21	0.17	1.83	<0.14	16.6	2.5	1.2	<0.061	20.6
GP Western Seep	9/30/13	815	<2.5	316	72.2	<0.16	6580	721	3.4	<0.1	17000
GP Eastern Seep	9/30/13	223	<2.5	16.4	158	0.91	1030	197	1.5	<0.1	1780
GP Western Seep	9/3/14	603	<2.5	84.7	12.7	<0.16	3340	391	1.5	<0.1	6570
GP Eastern Seep	9/3/14	171	<2.5	2.4	3.6	<0.16	221	42.8	<1.0	<0.1	213
GP Western Seep	9/1/15	360	<2.5	35.8	4.3	<0.16	1090	197	1.2	<0.1	2830
GP Eastern Seep	9/1/15	301	<2.5	13.6	208	0.53	1040	202	3.3	<0.1	1490
GP Western Seep	9/22/16	157	<2.5	35.9	55	0.22	800	134	<1.0	<0.10	3150
GP Eastern Seep	9/22/16	97.8	<2.5	1.24	7	<0.16	97.1	23.9	<1.0	<0.10	106
GP Western Seep	9/25/17	217	<2.5	19.9	6.1	<0.16	646	102	1.1	<0.10	1880
GP Eastern Seep	9/25/17	180	<2.5	3.71	10.5	<0.16	212	54.8	1.2	<0.10	338
GP Western Seep	9/26/19	385	3.55	183	366	0.38	1970	558	12.1	<0.061	14600
TTF Pond	9/25/13	341	<2.5	0.08	<1.0	<0.16	225	3.9	<1.0	<0.1	4.1
TTF Pond	10/23/13	318	<2.5	0.02	1.1	<0.16	187	3.7	<1.0	<0.1	2.6
TTF Pond	12/10/13	338	<2.5	0.02	1.1	<0.16	132	2.3	<1.0	<0.1	3.1
TTF Pond	1/6/14	247	<2.5	<0.02	<1.0	<0.16	121	1.4	<1.0	<0.1	23.8
TTF Pond	2/10/14	343	<2.5	0.03	<1.0	<0.16	141	1.7	<1.0	<0.1	3.3
TTF Pond	3/12/14	359	<2.5	<0.02	<1.0	<0.16	164	1.5	<1.0	<0.1	<2.5
TTF Pond	4/9/14	377	<2.5	<0.02	<1.0	<0.16	187	1.3	<1.0	<0.1	<2.5
TTF Pond	5/19/14	339	<2.5	0.05	<1.0	<0.16	190	1.8	<1.0	<0.1	4.2
TTF Pond	6/9/14	337	<2.5	0.05	<1.0	<0.16	185	1.8	<1.0	<0.1	3.3
TTF Pond	7/24/14	244	<2.5	0.07	1.5	<0.16	108	2.7	<1.0	<0.1	4
TTF Pond	10/23/14	332	<2.5	<0.02	<1.0	<0.16	255	1.7	<1.0	<0.1	<2.5
TTF Pond	1/15/15	250	<2.5	<0.02	1.3	<0.16	241	<1.0	<1.0	<0.1	3.1
TTF Pond	4/2/15	318	<2.5	<0.02	<1.0	<0.16	170	<1.0	<1.0	<0.1	<2.5
TTF Pond	7/7/15	381	<2.5	0.02	<1.0	<0.16	128	1.1	<1.0	<0.1	2.5



Table 1		Total Dissolved Solids	Ammonia as N	Chloride	Temperature	Dissolved Oxygen	pH field	Conductivity	Nitrate as N	Nitrite as N	Sulfate	Lab Turbidity	Total Chromium	Total Recoverable Aluminum	Total Recoverable Iron	Mercury Total
Station Name	Collect Date	mg/L	mg/L	mg/L	oC	mg/L	pH	umhos/cm	mg/L	mg/L	mg/L	NTU	ug/L	ug/L	mg/L	ug/L
TTF Pond	10/13/15	628	2.09	5.8	9.3	8.64	6.7	625	7.15	<0.10	336	6.99	<2.5	217	0.293	<0.20
TTF Pond	1/21/16	604	2.61	6.3	2.5	7.68	7.8	517	8.13	<0.10	306	2.36	<2.5	48	0.168	<0.20
TTF Pond	4/7/16	580	2.66	5.8	5.5	9.01	7.79	552	8.19	<0.10	287	1.59	<2.5	81	0.09	<0.20
TTF Pond	7/18/16	656	2.92	6.3	20.6	7.86	6.97	712	9.44	<0.10	369	2.41	<2.5	86	0.222	<0.20
TTF Pond	10/5/16	657	2.36	6.1	9.8	8.7	7.48	586	8.29	<0.10	368	2.42	<2.5	103	0.136	<0.20
TTF Pond	1/11/17	724	2.63	6.7	1.7	7.92	7.69	563	8.91	<0.10	421	3.49	<2.5	102	0.118	<0.20
TTF Pond	4/18/17	625	2.82	6	2.9	7.37	7.42	503	7.6	<0.10	367	2.74	<2.5	20	<0.05	<0.20
TTF Pond	7/26/17	704	2.73	7.2	16.7	9.06	8.66	807	8.67	<0.10	382	2.8	<2.5	57	0.073	<0.20
TTF Pond	10/17/17	683	2.37	6.5	8.9	9.37	7.55	638	7.68	<0.10	393	8.39	<2.5	245	0.438	<0.20
TTF Pond	1/16/18	679	2.47	6.2	1.5	8.66	7.64	409.3	7.89	<0.10	461	1.9	<2.5	73	0.076	<0.20
TTF Pond	4/16/18	740	3.39	7.3	2.2	8.12	7.94	587	9.76	<0.25	459	4.22	<2.5	101	0.11	<0.20
TTF Pond	7/18/18	751	2.57	7.1	15.5	9.25	8.32	824	9.36	0.13	418	2.87	<2.5	55	<0.05	<0.20
TTF Pond	10/11/18	826	3.7	8.8	9.5	8.75	7.73	811	11.3	<0.10	501	6.8	<2.5	114	0.14	<0.20
TTF Pond	1/24/19	746	3.77	9.9	1.4	9.98	7.76	482.7	12	<0.10	542	7.64	<2.5	105	0.124	<0.20
TTF Pond	4/11/19	643	2.73	7.97	3.7	9.16	7.69	551	8.57	<0.050	341	0.8	<0.2	30.1	0.059	<0.00009
TTF Pond	7/17/19	961	5.35	12.9	18.7	6.87	17.98	1101	13.4	<0.050	512	1.25	<0.2	45.9	0.033	<0.00009
TTF Pond	10/9/19	919	4.53	13.5	9.7	9.14	7.97	886	14.9	0.096	532	4.17	0.2	109	0.198	<0.00009
ARD-SUMP	9/24/13	1910	0.54	3.9	13.4	7.45	6.72	4100	0.8	<0.10	1190	62	<2.5	2820	9.5	<0.2
ARD-SUMP	10/1/13	1500	1.55	4.5	9.4	6.03	5.82	1454	3.63	<0.10	949	198	<2.5	7880	21.2	<0.2
ARD-SUMP	10/8/13	1670	3.92	5.8	7.5	9.06	7.02	1296	7.22	0.12	1010	133	<2.5	704	13	<0.2
ARD-SUMP	10/15/13	1580	1.51	3.8	8.1	10.20	6.89	1226	2.15	<0.10	948	104	<2.5	938	14.2	<0.2
ARD-SUMP	10/22/13	1570	1.11	4.1	7.5	9.06	6.96	1216	1.5	<0.10	965	149	<2.5	483	11.8	<0.2
ARD-SUMP	10/29/13	1260	0.74	3.5	6.7	9.34	7.06	968	0.95	<0.10	948	89	<2.5	2100	12.5	<0.2
ARD-SUMP	11/5/13	800	0.42	<2.0	3.4	11.11	7.05	613	0.88	<0.10	498	41	<2.5	980	5.52	<0.2
ARD-SUMP	11/12/13	1710	15.3	7.6	1.4	9.82	7.06	1225	30	0.16	1010	34.8	<2.5	1650	4.71	<0.2
ARD-SUMP	5/22/14	1610	1	5	18.5	5.7	7.28	1320	0.12	<0.10	652	0.28	3	6500	19.5	<0.2
ARD-SUMP	6/3/14	672	0.44	2.2	9.8	8.34	7.03	613	0.57	<0.10	385	301	4.4	5950	14.7	<0.2
ARD-SUMP	6/10/14	1340	0.89	3.8	14.0	7.24	7.76	1219	<0.10	<0.10	701	154	<2.5	595	12.4	<0.2
ARD-SUMP	6/17/14	461	0.28	2	10.9	9.06	7.22	514	0.43	<0.10	207	568	6.2	13400	38.9	<0.2
ARD-SUMP	6/23/14	958	0.48	4.4	10.8	8.57	7.27	623.5	<0.10	<0.10	486	165	<2.5	1870	16.9	<0.2
ARD-SUMP	7/1/14	1210	1.1	<5.0	16.9	5.53	7.13	1287	<0.25	<0.25	564	172	<2.5	120	16.1	<0.2
ARD-SUMP	7/8/14	1170	0.36	<2.0	13.3	7.27	7.16	1128	0.22	<0.10	626	162	<2.5	2950	8.32	<0.2
ARD-SUMP	7/15/14	1550	0.65	3	22.2	4.96	7.2	1655	0.11	<0.10	777	87	<2.5	91	7	<0.2
ARD-SUMP	7/22/14	1390	1.04	5.8	14.6	4.7	6.95	1294	<0.10	<0.10	607	180	<2.5	41	14.2	<0.2
ARD-SUMP	7/29/14	554	0.2	<2.0	14.6	8.02	7.44	468.2	0.14	<0.10	285	446	5.9	8200	31.8	<0.2
ARD-SUMP	8/5/14	243	1.57	6.3	22.6	2.9	7.03	1376	<0.10	<0.10	503	858	<2.5	118	76.1	<0.2
ARD-SUMP	8/12/14	1210	0.59	<2.0	13.8	6.63	7.1	1187	<0.10	<0.10	620	476	<2.5	1550	48.3	<0.2
ARD-SUMP	8/19/14	1250	1.12	3.9	15.1	2.43	7.01	1194	<0.10	<0.10	619	714	<2.5	1160	77.3	<0.2
ARD-SUMP	8/26/14	889	0.67	2.9	12.5	8.09	7.05	804	0.24	<0.10	452	320	<2.5	366	31.5	<0.2
ARD-SUMP	9/2/14	1200	0.88	3.4	13	7.18	6.95	1154	<0.10	<0.10	565	618	<2.5	375	64.7	<0.2
ARD-SUMP	9/9/14	1380	0.99	3	11.6	7.56	7.08	1122	<0.10	<0.10	679	540	<2.5	322	59	<0.2
ARD-SUMP	9/16/14	848	0.64	2.9	12.2	6.62	6.75	863	<0.10	<0.10	357	504	<2.5	293	39.1	<0.2
ARD-SUMP	9/23/14	1220	0.74	2.6	12.5	7.9	7.07	1172	<0.10	<0.10	599	423	<2.5	498	42.6	<0.2
ARD-SUMP	9/30/14	661	0.2	<2.0	9.4	11.08	7.3	315.1	<0.10	<0.10	308	618	11	12000	50.9	<0.2
ARD-SUMP	10/7/14	1150	0.53	2.3	7.7	8.8	7.14	916	<0.10	<0.10	521	254	<2.5	242	22.8	<0.2
ARD-SUMP	10/13/14	1010	0.36	2.3	8.8	9.4	7.03	777	<0.10	<0.10	471	270	<2.5	199	27.5	<0.2
ARD-SUMP	10/21/14	1070	0.56	2.4	7.3	8.1	7.11	796	<0.10	<0.10	514	302	<2.5	653	37.5	<0.2
ARD-SUMP	10/28/14	1020	0.97	4.7	3.8	10.03	7.09	726	<0.10	<0.10	458	513	<2.5	234	62.7	<0.2
ARD-SUMP	11/4/14	480	0.4	<2.0	2.4	11.22	7.45	196.1	<0.10	<0.10	231	685	3	6380	113	<0.2
ARD-SUMP	11/11/14	1040	0.91	3.3	2.5	12.08	7.22	893	<0.10	<0.10	568	520	<2.5	588	55.9	<0.2
ARD-SUMP	11/18/14	1190	1.21	5.2	0.6	6.1	6.66	763	<0.10	<0.10	470	126	<2.5	125	37.5	<0.2
ARD-SUMP	12/16/14	895	0.57	<2.0	2.3	9.68	7.1	661	<0.10	<0.10	445	115	<2.5	627	19.8	<0.2
ARD-SUMP	12/22/14	1020	0.73	2.5	2.2	7.43	7.01	692	<0.10	<0.10	490	78.6	<2.5	69	23	<0.2
ARD-SUMP	3/31/15	959	1.03	5.2	4.9	4	6.71	781	<0.10	<0.10	409	123	<2.5	79	32.7	<0.2
ARD-SUMP	4/7/15	1020	0.96	5.6	6.3	8.6	6.94	848	<0.10	<0.10	437	367	<2.5	107	51.4	<0.2
ARD-SUMP	4/13/15	716	0.38	2.2	9.6	8.59	6.75	754	<0.10	<0.10	327	156	<2.5	557	13.6	<0.2
ARD-SUMP	4/20/15	803	0.47	2.8	6.1	10.11	6.35	636	<0.10	<0.10	361	224	<2.5	132	19.7	<0.2
ARD-SUMP	4/27/15	869	0.74	4.5	8.8	7.71	6.61	808	0.1	<0.10	397	278	<2.5	77.7	24.4	<0.2
ARD-SUMP	5/4/15	1030	1.16	6.3	16	5.89	6.56	966	<0.10	<0.10	454	920	<2.5	396	79	<0.2
ARD-SUMP	5/11/15	891	0.87	4.4	11.2	5.7	7.19	875	0.1	<0.10	380	206	<2.5	44.1	17.1	<0.2
ARD-SUMP	5/18/15	1020	1.26	7.4	23.5	1.06	6.75	1339	<0.10	<0.10	417	695	<2.5	1250	77.7	<0.2
ARD-SUMP	5/26/15	1140	1.43	8.7	23.3	1.47	6.54	1425	<0.10	<0.10	457	923	<2.5	1290	92.8	<0.2
ARD-SUMP	6/1/15	1140	1.47	9.3	23.5	1.84	7.01	1445	0.27	<0.10	476	550	<2.5	250	46.4	<0.2
ARD-SUMP	6/8/15	940	0.89	3.6	16.3	6.02	7.01	989	<0.10	<0.10	436	465	<2.5	81	32.2	<0.2
ARD-SUMP	6/15/15	1070	1.66	4.9	25.9	1.81	6.76	1382	<0.10	<0.10	439	465	<2.5	113	44.9	<0.2
ARD-SUMP	6/22/15	980	1.76	5.9	19.8	2.12	6.82	1211	<0.10	<0.10	398	890	<2.5	83	64.7	<0.2
ARD-SUMP	6/29/15	1090	0.45	3.3	15.6	7.58	6.95	1128	0.33	<0.10	595	285	<2.5	342	19	<0.2
ARD-SUMP	7/6/15	1060	1.78	5.4	28.9	1.35	6.58	1412	<0.10	<0.10	422	200	<2.5	225	37.8	<0.2
ARD-SUMP	7/13/15	539	0.35	<2.0	15.7	6.73	6.58	686	<0.10	<0.10	232	198	<2.5	2010	16.8	<0.2
ARD-SUMP	7/20/15	741	0.77	2.3	13	4.26	6.89	865	<0.10	<0.10	330	261	<2.5	140	17.1	<0.2
ARD-SUMP	7/27/15	481	0.19	<2.0	13.5	8.5	7.49	570	<0.10	<0.10	211	233	2.9	5080	15.2	<0.20
ARD-SUMP	8/3/15	1170	1.15	3.4	23.2	3.32	6.7	1475	<0.10	<0.10	590	448	<2.5	82	34.2	<0.2
ARD-SUMP	8/10/15	1160	1.31	7.1	14.6	3.35	6.7	1105	0.1	<0.10	517	604	<2.5	52	44.8	<0.20
ARD-SUMP	8/17/15	711	0.35	<2.0	14.3	6.37	6.88	797	<0.10	<0.10	333	348	<2.5	712	21.7	<0.20
ARD-SUMP	8/24/15	1210	0.49	<5.0	14.1	7.07	6.85	1214	<0.25	<0.25	631	410	<2.5	859	27.2	<0.20
ARD-SUMP	8/31/15	552	0.17	<2.0	10.3	9.55	7.05	642</								

Table 1		Hardness, Total	Dissolved Arsenic	Dissolved Cadmium	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Selenium	Dissolved Silver	Dissolved Zinc
Station Name	Collect Date	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TTF Pond	10/13/15	393	<2.5	<0.020	1.4	<0.16	119	3.6	<1.0	<0.10	<2.5
TTF Pond	1/21/16	338	<2.5	<0.020	<1.0	<0.16	114	1.1	<1.0	<0.10	<2.5
TTF Pond	4/7/16	345	<2.5	<0.020	<1.0	<0.16	135	<1.0	<1.0	<0.10	<2.5
TTF Pond	7/18/16	368	<2.5	<0.020	1	<0.16	120	1.1	<1.0	<0.10	<2.5
TTF Pond	10/5/16	418	<2.5	0.029	1.1	<0.16	180	1.4	<1.0	<0.10	2.7
TTF Pond	1/11/17	418	<2.5	<0.020	<1.0	<0.16	133	1.1	<1.0	<0.10	<2.5
TTF Pond	4/18/17	349	<2.5	0.07	<1.0	<0.16	161	1.1	<1.0	<0.10	<2.5
TTF Pond	7/26/17	402	<2.5	<0.020	<1.0	<0.16	99.7	<1.0	<1.0	<0.10	3.4
TTF Pond	10/17/17	393	<2.5	<0.020	<1.0	<0.16	186	1.4	<1.0	<0.10	3
TTF Pond	1/16/18	385	<2.5	<0.020	<1.0	<0.16	169	1.3	<1.0	<0.10	<2.5
TTF Pond	4/16/18	432	<2.5	<0.020	<1.0	<0.16	179	1.1	<1.0	<0.10	<2.5
TTF Pond	7/18/18	402	<2.5	<0.020	<1.0	<0.16	109	1	<1.0	<0.10	6.3
TTF Pond	10/11/18	499	<2.5	<0.020	3.4	0.18	149	1.1	<1.0	<0.10	6.5
TTF Pond	1/24/19	440	<2.5	<0.020	<1.0	<0.16	215	1.5	<1.0	<0.10	3.6
TTF Pond	4/11/19	294	0.21	<0.06	<0.36	<0.14	231	1.5	0.3	<0.061	4.3
TTF Pond	7/17/19	564	0.3	<0.06	0.82	<0.14	113	1.4	0.6	<0.061	5
TTF Pond	10/9/19	509	0.29	<0.06	0.6	<0.14	136	1.2	0.5	<0.061	<2.0
ARD-SUMP	9/24/13	1140	<2.5	86.4	12.8	<0.16	26000	600	3.3	<0.1	7710
ARD-SUMP	10/1/13	948	<2.5	55.8	6.8	<0.16	25200	446	2.6	<0.1	5630
ARD-SUMP	10/8/13	1050	<2.5	25.5	5.7	<0.16	26900	202	2.3	<0.1	2410
ARD-SUMP	10/15/13	1030	<2.5	24.4	5.4	<0.16	22400	237	2.7	<0.1	1820
ARD-SUMP	10/22/13	1040	<2.5	21.7	3.6	<0.16	24600	189	2	<0.1	2070
ARD-SUMP	10/29/13	815	<2.5	15.9	4.7	<0.16	17400	166	1.1	<0.1	1200
ARD-SUMP	11/5/13	540	<2.5	16.2	4.9	<0.16	8600	122	1.9	<0.1	1610
ARD-SUMP	11/12/13	1110	<2.5	17.8	5.8	<0.16	21600	143	<1.0	<0.1	1730
ARD-SUMP	5/22/14	939	<2.5	3.54	3.2	<0.2	10400	73.4	2.6	<0.1	175
ARD-SUMP	6/3/14	478	<2.5	1.35	2.9	<0.16	7180	21.2	1.6	<0.1	75.5
ARD-SUMP	6/10/14	912	<2.5	2.97	2.1	<0.16	22400	65.5	2.2	<0.1	211
ARD-SUMP	6/17/14	402	<2.5	0.71	1.8	<0.16	4720	11.9	1.1	<0.1	36.8
ARD-SUMP	6/23/14	689	<2.5	2.52	1.3	<0.16	7990	36	3.3	<0.1	141
ARD-SUMP	7/1/14	936	<2.5	1.97	1.7	<0.16	20500	52.1	1.7	<0.1	124
ARD-SUMP	7/8/14	864	<2.5	2.13	3.1	<0.16	6500	32.8	4.4	<0.1	104
ARD-SUMP	7/15/14	1070	<2.5	2.9	2	<0.16	16700	55.6	1.4	<0.1	120
ARD-SUMP	7/22/14	924	<2.5	1.37	1.8	<0.16	25300	63.1	2.3	<0.1	118
ARD-SUMP	7/29/14	498	<2.5	0.64	1.7	<0.16	2960	8.4	1.2	<0.1	17.7
ARD-SUMP	8/5/14	813	<2.5	0.3	1.1	<0.16	27500	25.6	2.1	<0.1	16.8
ARD-SUMP	8/12/14	825	3.2	0.72	1.8	<0.2	13900	29.9	2	<0.1	95
ARD-SUMP	8/19/14	892	<2.5	0.3	1.7	<0.16	18300	22.4	1.6	<0.1	39.8
ARD-SUMP	8/26/14	641	<2.5	0.37	1.7	<0.16	8670	12.3	1.5	<0.1	21.7
ARD-SUMP	9/2/14	821	<2.5	0.35	1.4	<0.16	19900	24.9	1.7	<0.1	49.8
ARD-SUMP	9/9/14	951	3.1	0.24	1.2	<0.16	20100	25.1	1.2	<0.1	61.1
ARD-SUMP	9/16/14	554	<2.5	0.24	1	<0.16	12900	13.6	1.4	<0.1	29.8
ARD-SUMP	9/23/14	852	<2.5	0.4	1.2	<0.16	11800	18.3	1.9	<0.1	42.1
ARD-SUMP	9/30/14	518	<2.5	0.74	1.5	<0.16	4060	12	<1.0	<0.1	36.6
ARD-SUMP	10/7/14	766	<2.5	0.62	1.3	<0.16	9410	22	1.5	0.2	74.2
ARD-SUMP	10/13/14	724	<2.5	0.43	1.2	<0.16	10500	21.6	1.4	<0.1	72.6
ARD-SUMP	10/21/14	781	3.3	0.3	1.5	<0.16	13300	27.7	1.2	<0.1	87.4
ARD-SUMP	10/28/14	755	<2.5	0.24	1.3	<0.2	20700	27.8	1.8	0.1	71.3
ARD-SUMP	11/4/14	412	<2.5	0.53	<1.0	<0.16	6110	10.9	<1.0	<0.1	39
ARD-SUMP	11/11/14	826	2.7	0.25	1.1	<0.16	18500	29.2	2	0.2	76.7
ARD-SUMP	11/18/14	805	<2.5	1.1	1.4	<0.2	23500	36	1.8	0.2	126
ARD-SUMP	12/16/14	656	<2.5	1.03	1.2	<0.16	10400	21.7	1.3	<0.1	81
ARD-SUMP	12/22/14	733	<2.5	0.95	1.3	<0.16	13600	24	1.2	<0.1	78.9
ARD-SUMP	3/31/15	654	<2.5	0.55	<1.0	<0.16	18800	24.1	2.2	<0.1	63.9
ARD-SUMP	4/7/15	705	<2.5	0.61	1.3	<0.16	20200	24.3	1.6	<0.1	53.2
ARD-SUMP	4/13/15	497	<2.5	0.82	1.2	<0.16	7130	14.9	1.2	<0.1	51
ARD-SUMP	4/20/15	578	<2.5	0.88	1.1	<0.2	8290	17.1	1.3	<0.1	57.3
ARD-SUMP	4/27/15	642	<2.5	0.64	1.3	<0.16	13200	19.8	1.3	<0.1	39.5
ARD-SUMP	5/4/15	784	<2.5	0.37	1.3	<0.16	19100	22.7	1.8	0.2	24
ARD-SUMP	5/11/15	648	<2.5	0.47	1.3	<0.16	14100	17.2	1.6	<0.1	25
ARD-SUMP	5/18/15	789	<2.5	0.29	1.3	<0.16	20300	18.9	2.3	<0.1	14.9
ARD-SUMP	5/26/15	840	<2.5	0.26	1.3	<0.16	23400	19.5	2.3	<0.1	14.2
ARD-SUMP	6/1/15	859	<2.5	0.13	1.3	<0.16	22900	16.6	1.8	<0.1	4.5
ARD-SUMP	6/8/15	695	2.5	0.54	2.5	<0.16	15400	17.1	1.7	<0.1	30.5
ARD-SUMP	6/15/15	788	<2.5	0.07	<1.0	<0.16	22900	15.6	1.5	<0.1	6.4
ARD-SUMP	6/22/15	727	<2.5	0.06	<1.0	<0.16	27800	16.1	1.4	<0.1	9.8
ARD-SUMP	6/29/15	811	<2.5	0.22	2	<0.16	7130	7.1	2.7	<0.1	6.4
ARD-SUMP	7/6/15	753	<2.5	0.05	<1.0	<0.2	25000	12.8	1.7	<0.1	3.6
ARD-SUMP	7/13/15	386	<2.5	0.23	1.2	<0.16	6600	7.1	1	<0.1	7.5
ARD-SUMP	7/20/15	540	<2.5	0.22	<1.0	<0.16	12600	11.8	1.1	<0.1	11
ARD-SUMP	7/27/15	363	<2.5	0.364	1.4	<0.16	4520	7.5	<1.0	<0.10	12.3
ARD-SUMP	8/3/15	884	<2.5	0.12	1.1	0.28	18400	18.5	1.2	<0.1	9.3
ARD-SUMP	8/10/15	818	<2.5	0.06	<1.0	<0.16	21400	16	1	<0.10	7.6
ARD-SUMP	8/17/15	523	<2.5	0.269	1.5	<0.16	6780	9.4	1.1	<0.10	10.9
ARD-SUMP	8/24/15	844	3	1.01	1.5	<0.16	11700	25.1	1.7	<0.10	57.9
ARD-SUMP	8/31/15	381	<2.5	0.57	1	<0.16	3840	11.9	1.2	<0.1	37.2
ARD-SUMP	9/8/15	799	<2.5	0.203	1.8	<0.16	15400	21.1	1.4	<0.1	16.5
ARD-SUMP	9/14/15	761	<2.5	0.33	2.1	<0.16	15100	18	1.2	<0.1	27.1
ARD-SUMP	9/21/15	242	<2.5	0.35	1.5	<0.16	2620	5.5	<1.0	<0.10	15

Table 1		Total Dissolved Solids	Ammonia as N	Chloride	Temperature	Dissolved Oxygen	pH field	Conductivity	Nitrate as N	Nitrite as N	Sulfate	Lab Turbidity	Total Chromium	Total Recoverable Aluminum	Total Recoverable Iron	Mercury Total
Station Name	Collect Date	mg/L	mg/L	mg/L	oC	mg/L	pH	umhos/cm	mg/L	mg/L	mg/L	NTU	ug/L	ug/L	mg/L	ug/L
ARD-SUMP	9/28/15	406	0.26	<2.0	9.8	9.37	7.36	438	<0.10	<0.10	159	183	<2.5	1620	12.3	<0.20
ARD-SUMP	10/5/15	1010	0.88	3.8	12.3	6.09	6.35	909	<0.10	<0.10	447	702	<2.5	479	39.6	<0.20
ARD-SUMP	10/12/15	803	0.29	<2.0	8.2	9.09	6.2	744	<0.10	<0.10	384	161	<2.5	225	13.5	<0.20
ARD-SUMP	10/19/15	884	0.43	<2.0	8.6	7.65	6.09	695	<0.10	<0.10	<0.20	258	5.2	413	15.9	<0.20
ARD-SUMP	10/26/15	863	0.96	4	8.5	6.91	6.07	848	<0.10	<0.10	368	762	2.5	646	50.3	<0.2
ARD-SUMP	11/2/15	788	0.97	3.8	2.8	11.01	6.27	655	<0.10	<0.10	314	530	3.1	288	48.1	<0.20
ARD-SUMP	11/9/15	574	0.48	<2.0	4.8	10.65	7.9	509	<0.10	<0.10	248	302	8.3	670	22.9	<0.20
ARD-SUMP	11/16/15	815	0.76	2.9	1.2	7.17	7.57	569	<0.10	<0.10	346	335	4.6	2510	36.5	<0.20
ARD-SUMP	11/30/15	604	0.25	<2.0	2.5	11.2	7.57	447.6	<0.10	<0.10	273	178	8.5	1710	13.3	<0.2
ARD-SUMP	12/8/15	891	0.97	3.6	1.5	12.42	7.06	594	<0.10	<0.10	405	724	<2.5	440	43.6	<0.20
ARD-SUMP	1/19/16	889	1.02	3.3	0.4	8.91	6.77	682	<0.10	<0.10	<0.20	3640	<2.5	62	47.7	<0.20
ARD-SUMP	1/25/16	537	0.22	<2.0	1.3	11.43	6.66	443.9	<0.10	<0.10	230	453	<2.5	125	9.44	<0.20
ARD-SUMP	2/2/16	944	1.12	3.7	1.4	7	6.83	676	<0.10	<0.10	415	291	<2.5	84	43.5	<0.20
ARD-SUMP	2/8/16	761	0.96	5.6	2.5	7.7	6.78	553	<0.10	<0.10	313	292	<2.5	222	35.7	<0.20
ARD-SUMP	2/15/16	648	0.63	2.7	3.9	10.37	7.03	563	<0.10	0.23	287	254	<2.5	445	28.8	<0.20
ARD-SUMP	2/22/16	776	1.04	4.3	2.8	6.42	6.78	626	0.11	<0.10	407	197	<2.5	90	28.3	<0.20
ARD-SUMP	2/29/16	681	0.57	<2.0	4	11	7.05	521	<0.10	<0.10	274	162	<2.5	223	19.1	<0.20
ARD-SUMP	3/7/16	832	1.14	4.4	7.4	8.76	7.02	774	<0.10	<0.10	322	405	<2.5	339	44.9	<0.20
ARD-SUMP	3/14/16	771	1.22	4.7	1.6	9.2	6.84	601	1.89	<0.10	273	456	<2.5	784	73.7	<0.20
ARD-SUMP	3/21/16	765	1.27	5.5	9.3	8.45	6.85	737	<0.10	<0.10	280	466	<2.5	624	68.6	<0.20
ARD-SUMP	3/28/16	760	1.19	5.3	4.9	9.67	6.94	703	<0.10	<0.10	268	598	<2.5	497	51.3	<0.20
ARD-SUMP	4/4/16	789	1.23	4.8	8.9	8.18	6.78	647	<0.10	<0.10	267	765	<2.5	593	73.2	<0.20
ARD-SUMP	4/11/16	640	0.73	3.8	7.2	10.15	6.94	610	<0.10	<0.10	234	337	<2.5	950	43.9	<0.20
ARD-SUMP	4/18/16	733	0.99	3.5	9.4	8.48	6.86	773	<0.10	<0.10	290	575	<2.5	146	47.2	<0.20
ARD-SUMP	4/25/16	724	0.93	3.9	12.1	8.77	6.94	826	<0.10	<0.10	272	530	<2.5	355	45.3	<0.20
ARD-SUMP	5/2/16	604	0.24	<2.0	7.6	9.4	6.75	346.2	0.13	<0.10	282	135	<2.5	929	14.7	<0.20
ARD-SUMP	5/9/16	807	0.97	3.7	10	8.38	7.03	693	0.66	<0.10	349	493	<2.5	262	46	<0.20
ARD-SUMP	5/16/16	785	0.77	4.5	10.9	11.01	6.99	718	0.17	<0.10	330	237	<2.5	398	23.8	<0.20
ARD-SUMP	5/23/16	785	1	5.3	12.6	6.77	6.76	411.4	<0.10	<0.10	289	990	<2.5	815	92.7	<0.20
ARD-SUMP	5/31/16	761	1.59	6.2	21	3.66	6.89	995	<0.10	<0.10	266	740	<2.5	708	122	<0.20
ARD-SUMP	6/6/16	677	0.8	4.1	13.4	6.04	6.84	714	<0.10	<0.10	268	450	<2.5	202	34.7	<0.20
ARD-SUMP	6/13/16	723	1.11	4.8	19	5.37	6.97	857	<0.10	<0.10	286	898	<2.5	681	49	<0.20
ARD-SUMP	6/20/16	742	1.48	6.4	13.8	6.01	6.76	783	<0.10	<0.10	224	870	<2.5	840	96.1	<0.20
ARD-SUMP	6/27/16	737	1.2	5.1	25.1	4.17	7.08	951	<0.10	<0.10	266	340	<2.5	387	48.6	<0.20
ARD-SUMP	7/5/16	799	1.16	4.8	16.7	6.8	7.26	812	<0.10	<0.10	293	209	<2.5	30	20.6	<0.20
ARD-SUMP	7/11/16	803	1.94	5.6	25.7	4.26	970	6.93	<0.10	<0.10	288	1550	3	2700	137	<0.20
ARD-SUMP	7/18/16	769	1.61	6.3	23.3	6.25	7.32	854	0.15	<0.10	255	302	<2.5	80	34.6	<0.20
ARD-SUMP	7/25/16	705	1.18	4.6	14.3	7.02	7.18	763	<0.10	<0.10	279	478	<2.5	584	44.4	<0.20
ARD-SUMP	8/1/16	968	1.56	4.1	17.3	4.42	6.72	978	<0.10	<0.10	385	660	<2.5	782	57.3	<0.20
ARD-SUMP	8/8/16	705	0.96	4.1	14.8	5.91	6.79	790	<0.10	<0.10	289	373	<2.5	293	33.4	<0.20
ARD-SUMP	8/15/16	892	0.58	<2.0	13.4	10.3	6.74	801	<0.10	<0.10	446	290	4.1	659	27.7	<0.20
ARD-SUMP	8/22/16	904	1.2	4.1	14.2	3.6	7.11	760	<0.10	<0.10	395	838	5.3	691	75.8	<0.20
ARD-SUMP	8/29/16	879	1.34	4.2	13.6	5.6	6.73	941	<0.10	<0.10	377	663	<2.5	745	75	<0.20
ARD-SUMP	9/6/16	860	0.72	3.5	12.9	6.45	7.01	747	<0.10	<0.10	413	340	2.6	541	35.3	<0.20
ARD-SUMP	9/12/16	813	1.04	3.6	12.7	8.59	7	749	<0.10	<0.10	375	675	2.8	1580	56.8	<0.20
ARD-SUMP	9/19/16	943	0.63	2.5	15.7	6.35	6.85	1019	<0.10	<0.10	470	341	<2.5	220	34.1	<0.20
ARD-SUMP	9/26/16	895	0.88	3.3	9.6	8	7.15	634	<0.10	<0.10	382	500	<2.5	630	58.4	<0.20
ARD-SUMP	10/3/16	783	1.36	5.1	8.1	5.88	6.87	637	0.9	<0.10	301	1220	<2.5	896	169	<0.20
ARD-SUMP	10/10/16	805	1.18	5.5	4.6	2.81	6.67	575	0.23	<0.10	294	318	<2.5	55	67.6	<0.20
ARD-SUMP	10/17/16	408	0.25	<2.0	0.3	5.3	7.27	307.6	<0.10	<0.10	199	58.5	<2.5	242	13.9	<0.20
ARD-SUMP	10/24/16	782	0.96	4	5.6	4.72	6.81	671	<0.10	<0.10	333	638	<2.5	102	48	<0.20
ARD-SUMP	10/31/16	847	1.31	4.7	0.8	11.16	6.73	593	<0.10	<0.10	329	645	<2.5	576	84.9	<0.20
ARD-SUMP	11/7/16	479	0.44	<2.0	5.7	8.98	6.93	410.7	<0.10	<0.10	184	154	<2.5	286	16.8	<0.20
ARD-SUMP	11/14/16	651	0.42	<2.0	5.4	9.95	6.97	472.2	<0.10	<0.10	307	195	<2.5	1430	19.9	<0.20
ARD-SUMP	11/21/16	1060	1.24	4.4	1.1	3.54	6.3	628	<0.10	<0.10	459	307	<2.5	255	62.8	<0.20
ARD-SUMP	11/28/16	927	1.35	4.5	5	12.7	6.36	609	<0.10	<0.10	385	83.5	<2.5	36	16.9	<0.20
ARD-SUMP	1/30/17	671	0.52	2.3	0.9	8.54	6.73	546	<0.10	<0.10	302	26.6	<2.5	120	24.3	<0.20
ARD-SUMP	4/17/17	251	0.52	2	6	8	6.9	260	1.04	<0.10	81	79.5	<2.5	1690	6.33	<0.20
ARD-SUMP	4/24/17	587	1.39	5.4	7.6	7.3	6.48	610	0.13	<0.10	170	151	<2.5	46	24.1	<0.20
ARD-SUMP	5/1/17	654	2.34	5.8	5.2	7.14	7.06	515	6.06	<0.10	317	22.2	<2.5	64	3.46	<0.20
ARD-SUMP	5/8/17	691	3.02	6.4	6.8	11.13	7.19	566	7.53	<0.10	346	12.2	<2.5	57	0.89	<0.20
ARD-SUMP	5/15/17	668	2.81	6.4	12.96	8.96	6.93	654	6.69	<0.10	327	37.6	<2.5	236	3.39	<0.20
ARD-SUMP	5/22/17	708	0.69	3	8.2	14.58	6.86	627	0.11	<0.10	285	230	<2.5	396	21.4	<0.80
ARD-SUMP	5/30/17	661	1.68	6.2	13.1	2.58	6.56	795	<0.10	<0.10	181	242	<2.5	<10	28.3	<0.20
ARD-SUMP	6/5/17	679	1.63	6.3	11.4	2.54	6.57	719	1.69	<0.10	232	160	<2.5	<10	17.6	<0.20
ARD-SUMP	6/15/17	573	1.16	5.5	17.4	8.38	8.17	67.6	<0.10	<0.10	181	158	<2.5	175	21.2	<0.20
ARD-SUMP	6/20/17	429	0.71	3.8	12.3	3.63	6.79	503	<0.10	<0.10	123	132	<2.5	407	16	<0.20
ARD-SUMP	6/26/17	698	1.35	5.6	13.3	2.94	6.7	792	0.44	<0.10	239	184	<2.5	63	18.2	<0.20
ARD-SUMP	7/5/17	748	1.02	3.5	16.7	2.43	6.8	894	<0.10	<0.10	300	223	<2.5	34	25.5	<0.20
ARD-SUMP	7/10/17	704	1.81	4.5	15.4	2.24	6.7	870	<0.10	<0.10	258	94	<2.5	66	11.6	<0.20
ARD-SUMP	7/17/17	771	1.07	4	12.3	1.8	6.56	792	<0.10	<0.10	298	380	<2.5	186	48.5	<0.20
ARD-SUMP	7/24/17	639	1.24	4.8	15.8	1.29	6.61	904	<0.10	<0.10	203	252	<2.5	30	27.1	<0.20
ARD-SUMP	7/31/17	891	1.48	4	18	1.39	6.65	1025	0.24	<0.10	419	253	<2.5	70	43.6	<0.20
ARD-SUMP	8/7/17	829	1.67	5	15.6	6.6	6.53	985	0.4	<0.25	393	317	<2.5	33	63.1	<0.20
ARD-SUMP	8/14/17	552	0.84	4.7	13.4	3.54	6.83	611	<0.10	<0.10	187	255	<2.5	152	19.2	<0.20
ARD-SUMP	8/21/17	733	0.72	2.2	12.3	4.71	6.64	802	<0.10							

Table 1		Hardness, Total	Dissolved Arsenic	Dissolved Cadmium	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Selenium	Dissolved Silver	Dissolved Zinc
Station Name	Collect Date	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
ARD-SUMP	9/28/15	312	<2.5	0.451	1.4	<0.16	4770	9.1	<1.0	<0.10	32.3
ARD-SUMP	10/5/15	723	<2.5	0.257	2.3	<0.16	17400	18.5	1.6	<0.10	23.9
ARD-SUMP	10/12/15	588	<2.5	0.866	1.9	<0.16	7150	18.6	2.3	<0.10	65.1
ARD-SUMP	10/19/15	622	<2.5	0.279	6.2	<0.16	7680	14.5	1.6	<0.10	21.9
ARD-SUMP	10/26/15	642	<2.5	0.11	2.3	<0.16	17900	14.8	2	<0.1	17.3
ARD-SUMP	11/2/15	559	<2.5	0.073	3.9	<0.16	15600	13.6	1.2	<0.10	15.5
ARD-SUMP	11/9/15	430	<2.5	0.087	4.2	<0.16	7220	9.9	1	<0.10	10.6
ARD-SUMP	11/16/15	603	<2.5	0.077	1.7	<0.16	12100	11.4	<1.0	<0.040	7
ARD-SUMP	11/30/15	435	<2.5	0.27	5.1	<0.16	4080	8.9	1.5	<0.1	17.9
ARD-SUMP	12/8/15	712	<2.5	0.155	2.1	<0.16	12100	16.2	1.4	<0.10	21.3
ARD-SUMP	1/19/16	692	2.7	0.146	1.1	<0.16	15300	16.5	1.2	<0.10	19.3
ARD-SUMP	1/25/16	374	<2.5	0.624	1.7	<0.16	4050	10.1	1.4	<0.10	46.8
ARD-SUMP	2/2/16	761	2.7	0.219	1.2	<0.16	14300	13.9	<1.0	<0.10	29.4
ARD-SUMP	2/8/16		<2.5	0.212	1.2	<0.16	13400	13.3	<1.0	<0.10	23.5
ARD-SUMP	2/15/16	487	<2.5	0.268	1.5	<0.16	9170	10.8	<1.0	<0.10	26.2
ARD-SUMP	2/22/16	570	<2.5	0.232	1.2	<0.16	14600	13	<1.0	<0.10	20.4
ARD-SUMP	2/29/16	576	<2.5	0.206	1.3	<0.16	7410	9.6	<1.0	<0.10	16.1
ARD-SUMP	3/7/16	612	<2.5	0.139	1.2	<0.16	12600	10.9	1.6	<0.10	11.7
ARD-SUMP	3/14/16	595	<2.5	0.164	1.7	<0.16	12800	11.1	1.2	<0.10	21.1
ARD-SUMP	3/21/16	623	<2.5	0.097	1.4	<0.16	17400	11.6	<1.0	<0.10	11.5
ARD-SUMP	3/28/16	545	<2.5	0.116	<1.0	<0.16	17000	11.9	<1.0	<0.10	12.7
ARD-SUMP	4/4/16	587	<2.5	0.084	<1.0	<0.16	21100	10.8	1.4	<0.10	10.7
ARD-SUMP	4/11/16	495	<2.5	0.129	1.6	<0.16	12500	8.5	1.2	<0.10	12.1
ARD-SUMP	4/18/16	580	3.5	0.141	1.3	<0.16	14900	11.7	1.3	<0.10	16
ARD-SUMP	4/25/16	575	<2.5	0.073	<1.0	<0.16	15800	9	1.1	<0.10	7
ARD-SUMP	5/2/16	486	<2.5	0.913	1.4	<0.16	3990	13	2.1	<0.10	59.6
ARD-SUMP	5/9/16	601	<2.5	0.088	<1.0	<0.16	12300	10.3	1.1	<0.10	9.7
ARD-SUMP	5/16/16	577	<2.5	0.045	2.8	<0.16	9290	10.5	2.4	<0.10	3
ARD-SUMP	5/23/16	638	<2.5	0.058	<1.0	<0.16	18600	9.5	1.4	<0.10	6.1
ARD-SUMP	5/31/16	636	<2.5	0.03	<1.0	<0.16	20400	7.5	1.8	<0.10	2.7
ARD-SUMP	6/6/16	517	<2.5	0.087	1.1	<0.16	10900	8.5	<1.0	<0.10	6.4
ARD-SUMP	6/13/16	584	<2.5	0.038	1.2	<0.16	13500	7	<1.0	<0.10	2.5
ARD-SUMP	6/20/16	568	<2.5	0.063	1	<0.16	22100	7.9	1.4	<0.10	4.7
ARD-SUMP	6/27/16	573	<2.5	0.027	1.3	<0.16	14300	5.8	2.1	<0.10	2.9
ARD-SUMP	7/5/16	566	<2.5	0.021	1.2	<0.16	14100	5.9	2.1	<0.10	<2.5
ARD-SUMP	7/11/16	727	<2.5	0.036	1.4	<0.16	17100	6.4	2.5	<0.10	<2.5
ARD-SUMP	7/18/16	588	<2.5	<0.020	1.5	<0.16	14700	5	2.3	<0.10	2.6
ARD-SUMP	7/25/16	560	<2.5	0.034	1.4	<0.16	13100	5.9	2	<0.10	3.2
ARD-SUMP	8/1/16	678	<2.5	0.052	1.2	<0.16	16700	8.8	1.8	<0.10	6.8
ARD-SUMP	8/8/16	500	<2.5	0.037	1.3	<0.16	11100	6.1	1.8	<0.10	4
ARD-SUMP	8/15/16	668	<2.5	0.133	4.6	<0.16	5690	7.6	1.8	<0.10	9.4
ARD-SUMP	8/22/16	707	<2.5	0.063	1.6	<0.16	14800	7.8	1.8	<0.10	8.2
ARD-SUMP	8/29/16	692	<2.5	0.054	1.5	<0.16	15800	9.6	1.6	<0.10	7.7
ARD-SUMP	9/6/16	688	<2.5	0.035	2.1	<0.16	11300	6.6	2.4	<0.10	4
ARD-SUMP	9/12/16	646	<2.5	0.098	1.9	<0.16	11800	8.3	1.8	<0.10	8.5
ARD-SUMP	9/19/16	775	<2.5	0.118	1.2	<0.16	9610	10.1	1.5	<0.10	9.1
ARD-SUMP	9/26/16	614	3.1	0.092	1.1	<0.16	12200	10.3	1.7	<0.10	10.6
ARD-SUMP	10/3/16	671	3.2	0.069	1.1	<0.16	18000	8.5	2	<0.10	9.3
ARD-SUMP	10/10/16	659	<2.5	0.14	1.4	<0.16	18100	11.7	2.2	<0.10	22.6
ARD-SUMP	10/17/16	319	<2.5	0.085	2.1	<0.16	2230	2.7	1.3	<0.10	8.1
ARD-SUMP	10/24/16	575	<2.5	0.05	<1.0	<0.16	11900	7.5	1.5	<0.10	6.3
ARD-SUMP	10/31/16	653	3	0.065	1	<0.16	13300	8.3	1.8	<0.10	10.4
ARD-SUMP	11/7/16	347	<2.5	0.054	1.1	<0.16	5620	4.4	<1.0	<0.10	4.5
ARD-SUMP	11/14/16	490	<2.5	0.217	1.2	<0.16	6530	7.6	1.2	<0.10	18
ARD-SUMP	11/21/16	798	4	0.116	<1.0	<0.16	15200	9.5	1.6	<0.10	24.4
ARD-SUMP	11/28/16	609	<2.5	0.163	<1.0	<0.16	14200	9.9	1.6	<0.10	25.6
ARD-SUMP	1/30/17	518	4.3	0.315	2.4	<0.16	7360	8	1.3	<0.10	21.2
ARD-SUMP	4/17/17	184	<2.5	0.104	1.1	<0.16	1810	2.5	<1.0	<0.10	7.5
ARD-SUMP	4/24/17	470	<2.5	0.411	1	<0.16	13900	11.2	1.6	<0.10	24
ARD-SUMP	5/1/17	377	<2.5	0.242	1.6	<0.16	2530	4.6	<1.0	<0.10	10.1
ARD-SUMP	5/8/17	390	<2.5	0.077	1.3	<0.16	710	1.7	1.4	<0.10	6.3
ARD-SUMP	5/15/17	420	<2.5	0.146	1.2	<0.16	3230	3.6	<1.0	<0.10	5.2
ARD-SUMP	5/22/17	532	<2.5	0.507	1.3	<0.16	7890	9.8	2.2	<0.10	32.7
ARD-SUMP	5/30/17	501	<2.5	0.139	<1.0	<0.16	16700	9.4	1.9	<0.10	8.5
ARD-SUMP	6/5/17	472	<2.5	0.194	1.5	<0.16	12800	6.2	<1.0	<0.10	7.6
ARD-SUMP	6/15/17	438	<2.5	0.111	1.8	<0.16	13700	5.5	<1.0	<0.10	6.1
ARD-SUMP	6/20/17	309	<2.5	0.128	<1.0	<0.16	8470	4.4	<1.0	<0.10	7.4
ARD-SUMP	6/26/17	534	<2.5	0.282	3.3	<0.16	14000	8.9	<1.0	<0.10	16.5
ARD-SUMP	7/5/17	570	<2.5	0.13	<1.0	<0.16	11000	7.5	1.5	<0.10	10.7
ARD-SUMP	7/10/17	529	<2.5	0.118	<1.0	<0.16	11500	6.1	<1.0	<0.10	6.5
ARD-SUMP	7/17/17	571	<2.5	0.14	<1.0	<0.16	13100	9.7	<1.0	<0.10	10.3
ARD-SUMP	7/24/17	489	<2.5	0.07	<1.0	<0.16	12100	6	<1.0	<0.10	5.3
ARD-SUMP	7/31/17	667	<2.5	0.119	<1.0	<0.16	15700	7.8	1.5	<0.10	7.3
ARD-SUMP	8/7/17	693	<2.5	0.197	<1.0	<0.16	17900	8.3	1.2	<0.10	8.6
ARD-SUMP	8/14/17	401	<2.5	0.111	<1.0	<0.16	8260	3.9	1.3	<0.10	5.8
ARD-SUMP	8/21/17	609	3.9	0.456	<1.0	<0.16	8120	10.3	1.9	<0.10	37.9
ARD-SUMP	8/28/17	723	<2.5	0.195	<1.0	<0.16	9690	10.1	<1.0	<0.10	19.2
ARD-SUMP	9/5/17	709	3.4	0.268	<1.0	<0.16	6730	10.6	1.7	<0.10	28.8
ARD-SUMP	9/11/17	639	4.1	0.218	<1.0	<0.16	7580	12	1.1	<0.10	32.7

Table 1		Total Dissolved Solids	Ammonia as N	Chloride	Temperature	Dissolved Oxygen	pH field	Conductivity	Nitrate as N	Nitrite as N	Sulfate	Lab Turbidity	Total Chromium	Total Recoverable Aluminum	Total Recoverable Iron	Mercury Total
Station Name	Collect Date	mg/L	mg/L	mg/L	oC	mg/L	pH	umhos/cm	mg/L	mg/L	mg/L	NTU	ug/L	ug/L	mg/L	ug/L
ARD-SUMP	9/18/17	719	1.03	4.8	9.6	3.9	6.68	821	0.25	<0.10	274	343	<2.5	49	46.7	<0.20
ARD-SUMP	9/25/17	805	0.7	2.8	9.4	4.96	6.88	801	<0.10	<0.10	403	322	<2.5	27	44.6	<0.20
ARD-SUMP	10/2/17	525	0.35	2.3	9.1	1.75	6.58	827	0.34	<0.10	243	114	<2.5	11	11.2	<0.20
ARD-SUMP	10/9/17	631	1.11	3.9	7.3	1.3	6.96	574	3.11	<0.10	322	45.6	<2.5	89	4.98	<0.20
ARD-SUMP	10/16/17	565	1.59	5.2	7.2	9.55	7.31	537	5.39	<0.10	301	13.8	<2.5	211	0.894	<0.20
ARD-SUMP	10/23/17	598	1.05	4.2	5.5	8.32	6.77	545	2.29	<0.10	298	117	<2.5	50	13.8	<0.20
ARD-SUMP	10/31/17	719	5.78	5.2	6.1	7.51	6.4	616	8.23	0.16	397	24.7	<2.5	611	2.27	<0.20
ARD-SUMP	11/6/17	882	5.85	6.1	2.5	8.8	6.89	722	9.38	<0.10	402	82.5	<2.5	2200	5.26	<0.20
ARD-SUMP	12/14/17	185	0.16	<2.0	3.8	10.25	7.62	167	<0.10	<0.10	79.9	25.7	<2.5	855	1.56	<0.20
ARD-SUMP	12/18/17	230	0.16	<2.0	1.8	11.57	7.32	201.7	0.12	0.12	104	7.74	<2.5	185	0.387	<0.20
ARD-SUMP	1/8/18	38	<0.10	<2.0	0.4	14.55	7.83	29.2	<0.10	<0.10	10.7	4.5	<2.5	116	0.245	<0.20
ARD-SUMP	1/16/18	87	<0.10	<2.0	0.4	12.18	8.09	31.4	<0.10	<0.10	11.5	92.5	<2.5	3270	4.86	<0.20
ARD-SUMP	4/19/18	47	<0.10	<2.0	0.3	12.68	7.62	43	0.19	<0.10	11.8	26.1	<2.5	1120	1.82	<0.20
ARD-SUMP	4/23/18	75	<0.10	<2.0	1.1	11.97	7.62	70.8	0.33	<0.10	20.9	11.9	<2.5	567	0.671	<0.20
ARD-SUMP	4/30/18	133	0.26	<2.0	4.3	10.35	7.36	140.01	0.59	<0.10	41.3	13.7	<2.5	473	0.512	<0.20
ARD-SUMP	5/7/18	239	0.32	<2.0	8.7	9.08	7.23	252.1	0.86	<0.10	72.8	7.37	<2.5	132	0.37	<0.20
ARD-SUMP	5/14/18	398	0.51	3.5	8.7	8.26	6.85	390.9	0.75	<0.10	115	28.7	<2.5	74	2.16	<0.20
ARD-SUMP	5/21/18	439	0.59	4.3	11.3	7.11	7.31	477.3	0.553	<0.050	147	17.9	<2.5	35	1.37	<0.20
ARD-SUMP	5/29/18	559	1.99	5.6	11	7.66	7.05	574	5.16	<0.10	293	17.1	<2.5	29	1.36	<0.20
ARD-SUMP	6/7/18	629	1.96	6.4	14.4	8.03	7.24	680	6.23	<0.10	319	13.6	<2.5	19	0.987	<0.20
ARD-SUMP	6/11/18	633	1.69	6	11.3	7.14	7.25	629	5.27	<0.10	214	13.1	<2.5	16	0.97	<0.20
ARD-SUMP	6/18/18	592	1.53	7	16.5	7.01	7.36	721	9.43	<0.10	340	8.9	<2.5	20	0.652	<0.20
ARD-SUMP	6/25/18	642	1.29	7.2	16.8	5.61	7.31	734	5.05	0.11	403	11.5	<2.5	18	0.895	<0.20
ARD-SUMP	7/2/18	967	1.05	6.5	17.4	5.97	7.43	768	4.42	0.11	332	17.4	<2.5	38	1.23	<0.20
ARD-SUMP	7/9/18	646	0.88	7	17	6.19	7.37	768	4.85	0.16	324	18.6	<2.5	18	1.45	<0.20
ARD-SUMP	7/16/18	656	0.92	7.1	13.2	6.9	7.52	669	4.56	0.15	320	23.6	<2.5	12	1.68	<0.20
ARD-SUMP	7/23/18	678	0.46	8	20.6	6.13	7.45	817	4.88	0.16	346	16.5	<2.5	63	1.16	<0.20
ARD-SUMP	7/30/18	696	0.46	8.2	19.4	4.27	7.19	817	4.67	0.18	716	23.3	<2.5	93	1.52	<0.20
ARD-SUMP	8/6/18	710	0.36	8.2	17.4	4.94	7.45	766	4.28	0.15	370	28.4	<2.5	21	1.76	<0.20
ARD-SUMP	8/13/18	739	1.95	7.1	14.2	6.64	7.55	1768	6.13	0.11	395	16.6	<2.5	70	1.22	<0.20
ARD-SUMP	9/4/18	73	<0.10	<2.0	15.4	7.79	7.56	22.9	0.1	<0.10	1.24	2.27	<2.5	46	0.074	<0.20
ARD-SUMP	9/10/18	33	<0.10	<2.0	15.1	8.58	7.79	32.4	<0.10	<0.10	2.47	1.3	<2.5	36	0.07	<0.20
ARD-SUMP	9/17/18	36	0.1	<2.0	12	9.12	7.45	37.1	<0.10	<0.10	3.91	3.06	<2.5	193	0.363	<0.20
ARD-SUMP	9/24/18	34	0.11	<2.0	10.4	9.5	7.53	27.2	<0.10	<0.10	3.5	2.2	<2.5	62	0.101	<0.20
ARD-SUMP	10/1/18	20	<0.10	<2.0	8.2	10.8	8.06	17.8	<0.10	<0.10	2	1.12	<2.5	28	0.055	<0.20
ARD-SUMP	10/8/18	<10	<0.10	<2.0	12.9	10.03	7.41	12	<0.10	<0.10	1.16	1.13	<2.5	31	<0.05	<0.20
ARD-SUMP	10/15/18	<10	<0.10	<2.0	9.5	10	7.02	61	<0.10	<0.10	0.23	6.45	<2.5	428	0.66	<0.20
ARD-SUMP	10/22/18	<10	<0.10	<2.0	6.7	11.19	6.5	10.6	<0.10	<0.10	0.78	1.15	<2.5	32	<0.05	<0.20
ARD-SUMP	10/29/18	20	<0.10	<2.0	5.7	4.79	8.58	7.6	<0.10	<0.10	0.48	0.69	<2.5	19	<0.05	<0.20
ARD-SUMP	11/12/18	<10	<0.10	<2.0	3.6	12.59	7.87	6.8	<0.10	<0.10	0.29	1	<2.5	30	<0.05	<0.20
ARD-SUMP	11/19/18	<10	<0.10	<2.0	4.3	7.68	8.17	5.3	<0.10	<0.10	0.29	0.85	<2.5	14	<0.05	<0.20
ARD-SUMP	11/26/18	214	<0.10	<2.0	2.4	8.62	7.95	17.7	<0.10	<0.10	0.23	2.67	<2.5	13	<0.05	<0.20
ARD-SUMP	4/8/19	<10	<0.030	0.32	0.9	12.78	7.7	5.5	<0.050	<0.050	0.59	1.3	0.2	105	0.124	<0.0009
ARD-SUMP	4/15/19	<10	<0.030	0.52	9.7	11.38	7.98	17.9	<0.050	<0.050	1.06	1.52	0.2	43.5	0.03	<0.0009
ARD-SUMP	4/23/19	<10	<0.030	0.84	5.5	11.69	7.71	11.2	<0.050	<0.050	1.02	2.79	0.2	65.9	0.078	<0.0009
ARD-SUMP	4/29/19	<10	<0.030	1.1	10.4	9.74	7.36	22.8	<0.050	<0.050	1.41	1.71	0.2	109	0.134	<0.0009
ARD-SUMP	5/6/19	26	<0.030	1.04	8.6	10.31	7.64	30.2	<0.050	<0.050	2.73	1.46	0.3	65.4	0.065	<0.0009
ARD-SUMP	5/13/19	26	0.045	0.64	14.2	7.73	7.4	24	<0.050	<0.050	2.36	0.812	0.2	29.8	0.027	<0.0009
ARD-SUMP	5/20/19	24	<0.030	0.51	18.2	7	7.12	37.8	<0.050	<0.050	3.31	2.53	0.2	35.7	0.041	<0.0009
ARD-SUMP	5/28/19	41	<0.030	0.59	18.4	7.25	7.41	46.9	0.11	<0.050	4.93	2.46	0.3	58.7	0.049	<0.0009
ARD-SUMP	6/3/19	45	<0.030	0.71	12	9.73	7.98	47.3	<0.050	<0.050	6.25	3.59	0.2	98	0.065	<0.0009
ARD-SUMP	6/10/19	78	<0.030	0.65	16.2	8.54	8.48	44.9	<0.050	<0.050	6.95	7.4	0.3	213	0.172	<0.0009
ARD-SUMP	6/17/19	18	<0.030	0.22	14.5	7.6	7.12	17.3	<0.050	<0.050	2.39	2.96	0.2	57.3	0.048	<0.0009
ARD-SUMP	6/24/19	11	<0.030	0.26	17.8	8.2	8.39	23.9	<0.050	<0.050	2.86	4.17	0.2	81.8	0.051	<0.0009
ARD-SUMP	7/1/19	44	<0.030	0.31	23.8	6.29	8.6	30.8	<0.050	<0.050	4.97	5.74	0.2	139	0.047	<0.0009
ARD-SUMP	7/8/19	70	<0.030	0.38	23.5	7.06	7.96	57	<0.050	<0.050	7.75	3.15	0.3	197	0.079	<0.0009
ARD-SUMP	7/15/19	54	<0.030	0.46	18.1	8.27	7.42	62.1	<0.050	<0.050	10.7	3.93	0.2	172	0.122	<0.0009
ARD-SUMP	7/22/19	31	<0.030	0.31	18.3	8.15	7.82	45.4	0.725	<0.050	6.96	3.16	0.2	73.1	0.041	<0.0009
ARD-SUMP	7/29/19	26	<0.030	0.46	13	9.71	7.94	32.8	<0.050	<0.050	5.66	2.65	<0.2	70.8	0.06	<0.0009
ARD-SUMP	8/5/19	62	<0.030	0.52	20.4	6.97	7.7	41.9	<0.050	<0.050	7.18	3.09	0.3	96.8	0.064	<0.0009
ARD-SUMP	8/12/19	41	<0.030	0.67	21.3	7.56	7.53	58.3	<0.050	<0.050	10.6	3.84	0.3	142	0.101	<0.0009
ARD-SUMP	8/19/19	1160	<0.030	0.45	12.7	8.27	7.79	48.3	<0.050	<0.050	8.08	4.47	0.2	90.5	0.066	<0.0009
ARD-SUMP	8/26/19	14	<0.030	0.28	13.7	9.05	7.61	18.7	<0.050	<0.050	3.35	1.77	0.2	33.5	0.036	<0.0009
ARD-SUMP	9/3/19	16	<0.030	<0.20	13.6	7.42	7.96	23.9	<0.050	<0.050	2.58	1.9	0.2	31.1	0.035	0.0001
ARD-SUMP	9/9/19	17	<0.030	0.21	11.8	11.09	7.07	19.4	<0.050	<0.050	3.42	1.98	<0.2	29.3	0.025	<0.0009
ARD-SUMP	9/16/19	20	<0.030	<0.20	12.5	8.14	7.69	14.6	<0.050	<0.050	2.63	1.49	0.2	29.8	0.042	<0.0009
ARD-SUMP	9/23/19	<10	<0.030	0.34	9.1	9.4	8.19	13.1	<0.050	<0.050	0.9	1.15	<0.2	15.7	0.02	<0.0009
ARD-SUMP	9/30/19	13	<0.030	0.67	8.1	8.92	7.81	10.9	<0.050	<0.050	0.87	1.19	0.2	6.9	<0.012	<0.0009
ARD-SUMP	10/7/19	<10	<0.030	1.13	4.8	9.89	8.25	7.4	<0.050	<0.050	0.68	2.03	0.2	25	0.032	<0.0009
ARD-SUMP	10/14/19	10	<0.030	1.18	4.4	12.29	8.51	6.3	<0.050	<0.050	0.75	1.29	0.3	159	0.253	<0.0009
ARD-SUMP	10/21/19	12	<0.030	0.69	3.7	10.25	7.79	6.2	<0.050	<0.050	0.67	0.756	<0.2	17.6	0.026	<0.0009
ARD-SUMP	10/28/19	<10	<0.030	0.73	4.4	13.02	8.59	6	<0.050	<0.050	0.43	0.659	<0.2	13.9	0.014	<0.0009
ARD-SUMP	11/4/19	<10	<0.030	0.38	5.4	10.68	8.26	6	<0.050	<0.050	0.34	0.675	<0.2	16.3	0.014	

Table 1		Hardness, Total	Dissolved Arsenic	Dissolved Cadmium	Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Selenium	Dissolved Silver	Dissolved Zinc
Station Name	Collect Date	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
ARD-SUMP	9/18/17	519	<2.5	0.088	<1.0	<0.16	10700	6.5	1.5	<0.10	7.9
ARD-SUMP	9/25/17	638	4.5	0.181	<1.0	<0.16	8980	9.5	1.3	<0.10	22.9
ARD-SUMP	10/2/17	423	<2.5	0.417	<1.0	<0.16	5400	6.1	1.5	<0.10	20.5
ARD-SUMP	10/9/17	407	<2.5	0.398	<1.0	<0.16	2450	5.2	1.1	<0.10	22.4
ARD-SUMP	10/16/17	313	<2.5	0.116	1	<0.16	490	1.8	<1.0	<0.10	7.1
ARD-SUMP	10/23/17	420	<2.5	0.66	<1.0	<0.16	5430	7.5	1.1	<0.10	33.8
ARD-SUMP	10/31/17	498	13.6	0.926	2.6	<0.16	2510	8.7	2.1	<0.10	41.2
ARD-SUMP	11/6/17	626	14.3	0.499	6.5	<0.16	3060	8.8	2.1	<0.10	18.9
ARD-SUMP	12/14/17	163	3.5	0.453	1.1	<0.16	326	3.1	1.2	<0.10	25.4
ARD-SUMP	12/18/17	199	4	0.426	1	<0.16	388	3.1	1.3	<0.10	17
ARD-SUMP	1/8/18	23.8	<2.5	0.107	2.1	<0.16	51.7	<1.0	<1.0	<0.10	7.8
ARD-SUMP	1/16/18	42	<2.5	0.186	4	0.24	67.2	1	<1.0	<0.10	10.4
ARD-SUMP	4/19/18	38.6	<2.5	0.09	<1.0	<0.16	110	<1.0	<1.0	<0.10	3.2
ARD-SUMP	4/23/18	61.5	2.8	0.138	<1.0	<0.16	253	<1.0	<1.0	<0.10	6.1
ARD-SUMP	4/30/18	103	3.8	0.286	9.2	0.52	704	2.5	<1.0	<0.10	15.1
ARD-SUMP	5/7/18	189	4.5	0.521	1.8	<0.16	1790	5.3	<1.0	<0.10	17.8
ARD-SUMP	5/14/18	313	4.5	1.15	2.8	<0.16	5000	15.2	<1.0	<0.10	39
ARD-SUMP	5/21/18	343	5.2	1.11	3.1	<0.16	6170	17.2	<1.0	<0.10	32.6
ARD-SUMP	5/29/18	401	<2.5	0.913	1.8	<0.16	3360	10.5	<1.0	<0.10	31.9
ARD-SUMP	6/7/18	428	<2.5	0.826	1.8	<0.16	3150	9.1	<1.0	<0.10	21.1
ARD-SUMP	6/11/18	437	2.5	0.981	2.3	<0.16	3500	10.9	<1.0	<0.10	24.5
ARD-SUMP	6/18/18	398	2.9	0.782	2.2	<0.16	2860	9.2	<1.0	<0.10	16.8
ARD-SUMP	6/25/18	448	4.4	1.1	3.1	<0.16	4330	12.3	<1.0	<0.10	23.2
ARD-SUMP	7/2/18	449	5.4	0.831	3.6	<0.16	4180	11.9	<1.0	<0.10	16.9
ARD-SUMP	7/9/18	495	5	0.699	3.4	<0.16	3970	10.4	<1.0	<0.10	11.8
ARD-SUMP	7/16/18	472	5.7	0.568	3.7	<0.16	4130	9.5	<1.0	<0.10	11.1
ARD-SUMP	7/23/18	425	6.3	0.514	4.3	<0.16	3670	9	<1.0	<0.10	8.8
ARD-SUMP	7/30/18	437	5.7	0.643	4.3	<0.16	4240	10.1	<1.0	<0.10	11.7
ARD-SUMP	8/6/18	470	6.3	0.579	4.4	<0.16	4320	10.2	<1.0	<0.10	9.4
ARD-SUMP	8/13/18	448	2.7	0.468	3	<0.16	3270	6.5	<1.0	<0.10	8.1
ARD-SUMP	9/4/18	9.3	<2.5	<0.020	<1.0	<0.16	52.3	<1.0	<1.0	<0.10	196
ARD-SUMP	9/10/18	13.2	<2.5	<0.020	<1.0	<0.16	82.1	<1.0	<1.0	<0.10	271
ARD-SUMP	9/17/18	20.9	<2.5	0.031	<1.0	<0.16	123	<1.0	<1.0	<0.10	392
ARD-SUMP	9/24/18	14.6	<2.5	<0.020	<1.0	<0.16	82.6	<1.0	<1.0	<0.10	388
ARD-SUMP	10/1/18	9.7	<2.5	<0.020	<1.0	<0.16	54.3	<1.0	<1.0	<0.10	237
ARD-SUMP	10/8/18	5.6	<2.5	<0.020	<1.0	<0.16	29.5	<1.0	<1.0	<0.10	131
ARD-SUMP	10/15/18	5.6	<2.5	<0.020	<1.0	<0.16	14.9	<1.0	<1.0	<0.10	22.3
ARD-SUMP	10/22/18	3.3	<2.5	<0.020	<1.0	<0.16	15.2	<1.0	<1.0	<0.10	24.8
ARD-SUMP	10/29/18	3.2	<2.5	<0.020	<1.0	<0.16	19.5	<1.0	<1.0	<0.10	29.1
ARD-SUMP	11/12/18	1.7	<2.5	<0.020	<1.0	<0.16	9.3	<1.0	<1.0	<0.10	16.6
ARD-SUMP	11/19/18	2	<2.5	<0.020	<1.0	<0.16	11.2	<1.0	<1.0	<0.10	15.2
ARD-SUMP	11/26/18	4.2	<2.5	<0.020	<1.0	<0.16	11.4	<1.0	<1.0	<0.10	12.3
ARD-SUMP	4/8/19	2.66	<0.21	<0.06	0.48	<0.14	17	<0.5	<0.2	<0.061	25.1
ARD-SUMP	4/15/19	7.54	<0.21	<0.06	0.79	<0.14	35.6	<0.5	<0.2	<0.061	27.3
ARD-SUMP	4/23/19	6.9	<0.21	<0.06	0.76	<0.14	29.4	<0.5	<0.2	<0.061	25.1
ARD-SUMP	4/29/19	11.8	<0.21	<0.06	0.82	<0.14	39	<0.5	<0.2	<0.061	26.3
ARD-SUMP	5/6/19	18	<0.21	<0.06	1.83	<0.14	37	<0.5	<0.2	<0.061	48.1
ARD-SUMP	5/13/19	14.6	<0.21	<0.06	1.45	<0.14	22.6	<0.5	<0.2	<0.061	33
ARD-SUMP	5/20/19	17.5	<0.21	<0.06	1.46	<0.14	12.7	<0.5	<0.2	<0.061	44.4
ARD-SUMP	5/28/19	22.6	<0.21	<0.06	2.44	<0.14	8.93	<0.5	<0.2	<0.061	45.7
ARD-SUMP	6/3/19	24.3	0.22	<0.06	2.9	<0.14	3.53	0.5	<0.2	<0.061	33.6
ARD-SUMP	6/10/19	23.7	<0.21	<0.06	3.19	<0.14	1.84	0.6	0.2	<0.061	20.6
ARD-SUMP	6/17/19	9.02	<0.21	<0.06	1.41	<0.14	2.97	<0.5	<0.2	<0.061	23.4
ARD-SUMP	6/24/19	11.3	<0.21	<0.06	1.65	<0.14	2.26	<0.5	<0.2	<0.061	19.9
ARD-SUMP	7/1/19	18.6	0.28	<0.06	2.25	<0.14	3.16	<0.5	<0.2	<0.061	13.4
ARD-SUMP	7/8/19	28	3.14	<0.06	3.14	<0.14	6.71	0.6	<0.2	<0.061	25.5
ARD-SUMP	7/15/19	34.7	0.39	<0.06	3.55	<0.14	6.41	0.7	0.3	<0.061	43.6
ARD-SUMP	7/22/19	19.1	0.29	<0.06	2.69	<0.14	14.1	0.7	0.2	<0.061	48.9
ARD-SUMP	7/29/19	15.8	0.22	0.12	2.39	<0.14	6.77	0.8	0.2	<0.061	40.4
ARD-SUMP	8/5/19	21.2	0.27	<0.06	2.32	<0.14	3.65	0.6	0.2	<0.061	33.2
ARD-SUMP	8/12/19	29.7	0.36	<0.06	2.96	<0.14	2.07	0.7	0.2	<0.061	28.4
ARD-SUMP	8/19/19	20.5	0.25	<0.06	2.53	<0.14	17.1	0.6	<0.2	<0.061	46.7
ARD-SUMP	8/26/19	9.64	<0.21	<0.06	1.22	<0.14	10.1	<0.5	<0.2	<0.061	39.3
ARD-SUMP	9/3/19	8.5	<0.21	<0.06	1.38	<0.14	10.4	<0.5	<0.2	<0.061	57.9
ARD-SUMP	9/9/19	11	<0.21	<0.06	1.28	<0.14	9.67	<0.5	<0.2	<0.061	65.5
ARD-SUMP	9/16/19	7.82	<0.21	<0.06	0.94	<0.14	6.59	<0.5	<0.2	<0.061	52.7
ARD-SUMP	9/23/19	3.41	<0.21	<0.06	<0.36	<0.14	3.27	<0.5	<0.2	<0.061	26.8
ARD-SUMP	9/30/19	4.53	<0.21	<0.06	0.52	<0.14	7.8	<0.5	<0.2	<0.061	50.3
ARD-SUMP	10/7/19	2.44	<0.21	<0.06	<0.36	<0.14	6.03	<0.5	<0.2	<0.061	22.8
ARD-SUMP	10/14/19	4.25	<0.21	<0.06	<0.36	<0.14	9.08	<0.5	<0.2	<0.061	18.6
ARD-SUMP	10/21/19	3.68	<0.21	<0.06	<0.36	<0.14	10.7	<0.5	<0.2	<0.061	19.4
ARD-SUMP	10/28/19	3.3	<0.21	<0.06	<0.36	<0.14	8.63	<0.5	<0.2	<0.061	16
ARD-SUMP	11/4/19	2.51	<0.21	<0.06	<0.36	<0.14	6.53	<0.5	<0.2	<0.061	15.6
ARD-SUMP	11/18/19	2.4	<0.21	<0.06	<0.36	<0.14	4.87	<0.5	<0.2	<0.061	8.4

**Table 2 - Annual Mine Sump Sediments  
Waste Management Permit - Section 1.7.3**

Station Name	Mine Sump Sediments	Mine Sump Sediments	Mine Sump Sediments	Mine Sump Sediments	Mine Sump Sediments	Mine Sump Sediments	Mine Sump Sediments	Mine Sump Sediments
Collect Date/Time	1/19/2017	4/18/2017	7/26/2017	10/17/2017	1/16/2018	1/24/2019	1/9/2020	
Total Dissolved Solids	mg/L	43	6210	41.2	90	56.7	62	
Ammonia as N	mg/L	0.211	<0.050	0.07	0.05	0.164	0.29	
Nitrate as N	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.250	
pH lab	pH	8.61	6.59	9.39	8.86	9.27	8.89	
Sulfate	mg/L	5.6	12.2	8.97	6.04	8.01	7.74	
Hardness, Total	mg/L	24.5	1250	24.5	36.2	27.1	32	
Total Recoverable Aluminum	mg/L	0.432	<0.20	0.463	0.203	0.166	0.381	
Total Recoverable Arsenic	mg/L	<0.0050	<0.010	<0.020	<0.010	<0.0050	<0.00300	
Total Recoverable Cadmium	mg/L	<0.00020	0.00055	<0.00040	<0.00040	<0.00020	<0.00020	
Total Chromium	mg/L	<0.0020	<0.0040	<0.0040	<0.0040	<0.0020	<0.0015	
Total Recoverable Copper	mg/L	0.0016	0.0029	<0.010	<0.0020	<0.0010	0.00131	
Total Recoverable Iron	mg/L	0.336	0.031	<0.020	0.043	0.038	0.137	
Total Recoverable Lead	mg/L	0.00028	0.00042	<0.00040	<0.00040	<0.00020	<0.00100	
Total Recoverable Manganese	mg/L	<0.010	5.86	<0.010	<0.010	<0.010	0.0124	
Mercury Total	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00020	
Total Recoverable Nickel	mg/L	<0.0020	0.005	<0.0040	<0.0040	<0.0020	<0.0010	
Total Recoverable Selenium	mg/L	<0.010	<0.020	<0.020	<0.020	<0.010	<0.0050	
Total Recoverable Silver	mg/L	<0.00020	<0.00040	<0.00040	<0.00040	<0.00020	<0.000100	
Total Recoverable Zinc	mg/L	<0.0050	0.022	<0.050	<0.020	<0.0050	<0.0050	

**Table 3**

<b>2013/2014/2015/2016/2017/2018/2019 Development Rock MWMP Results</b>	TDS (mg/L)	pH	NH <sub>3</sub> (mg/L)	Al (ug/L)	As (ug/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Pb (ug/L)	Hg (ug/L)	Ni (ug/L)	Se (ug/L)	Ag (ug/L)	Zn (ug/L)	Nitrate as N (mg/L)	Sulfate as SO <sub>4</sub> (mg/L)
2013 Development Rock 1st Quarter	91	7.98	0.71	96	ND	ND	ND	1.02	ND	ND	ND	ND	ND	ND	ND	3.76	25.2
2013 Development Rock 2nd Quarter	174	8.42	1.15	314	ND	ND	ND	ND	ND	ND	ND	1.09	ND	ND	ND	13.1	38.8
2013 Development Rock 3rd Quarter	221	7.58	1.00	114	ND	ND	ND	1.36	ND	ND	ND	ND	ND	ND	ND	5.27	97.6
2013 Development Rock 4th Quarter	97	7.45	1.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.28	37.2
2014 Development Rock 1st Quarter	73	7.58	0.9	81	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.37	17.0
2014 Development Rock 2nd Quarter	164	7.65	2.95	ND	ND	ND	ND	1.23	ND	ND	ND	1.00	ND	ND	ND	7.27	64.8
2014 Development Rock 3rd Quarter	ND	7.30	0.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.59	1.7
2014 Development Rock 4th Quarter	80	7.52	1.87	ND	ND	ND	ND	ND	ND	ND	ND	1.71	ND	ND	ND	6.77	7.81
2015 Development Rock 1st Quarter	134	7.58	1.09	ND	ND	ND	ND	2.31	ND	ND	ND	1.00	ND	ND	ND	7.76	43.9
2015 Development Rock 2nd Quarter	71	7.88	1.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.22	4.19
2015 Development Rock 3rd Quarter	48	7.66	0.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.28	ND
2015 Development Rock 4th Quarter	48	7.48	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2016 Development Rock 1st Quarter	82	7.78	0.81	90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.04	23.0
2016 Development Rock 2nd Quarter	159	8.11	1.96	190	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.26	44.4
2016 Development Rock 3rd Quarter	85	7.47	0.593	ND	ND	ND	ND	1.04	ND	3.89	ND	ND	ND	ND	ND	2.90	25.3
2016 Development Rock 4th Quarter	52	7.39	3.59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.03	9.0
2017 Development Rock 1st Quarter	112	7.7	1.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.96	45.2
2017 Development Rock 2nd Quarter	212	7.84	0.824	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.71	89.7
2017 Development Rock 3rd Quarter	140	7.4	0.39	ND	ND	ND	ND	ND	ND	ND	ND	1.90	ND	ND	ND	4.34	65.1
2017 Development Rock 4th Quarter	258	8	1.66	310	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.72	133.0
2018 Development Rock 1st Quarter	224	7.8	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.90	45.0
2018 Development Rock 2nd Quarter	214	8.2	0.648	90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.45	121.0
2018 Development Rock 3rd Quarter	106	7.4	0.24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.65	40.3
2018 Development Rock 4th Quarter	119	7.8	0.225	410	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	36.2
2019 Development Rock 1st Quarter	67	7.6	0.154	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.14	19.1
2019 Development Rock 2nd Quarter	125	8.4	0.754	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.10	22.8
2019 Development Rock 3rd Quarter	117	7.7	0.467	ND	ND	ND	ND	1.61	ND	ND	ND	ND	ND	ND	ND	4.77	49.0
2019 Development Rock 4th Quarter	31	7.5	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.95	1.8

<b>2013/2014/2015/2016/2017/2018/2019 Development Rock ABA Results</b>	<i>Sulfur,</i>				<i>Acid</i>	<i>Neutralization</i>	<i>Acid - Base</i>
	<i>Sulfur Forms (Acid Extractable and Non-extractable Sulfur) 3.2.6</i>				<i>Potential</i>	<i>Potential</i>	<i>Accounting</i>
	<i>Total</i>						
	<i>3.2.4</i>	<i>Sulfate</i>	<i>Pyritic</i>	<i>Non-extractable</i>	<i>1.3.1</i>	<i>3.2.3</i>	<i>1.3.1</i>
<i>wt%</i>	<i>wt%</i>	<i>wt%</i>	<i>wt%</i>	<i>t CaCO3/1000t</i>	<i>t CaCO3/1000t</i>	<i>t CaCO3/1000t</i>	
2013 Development Rock 1st Quarter	0.15	ND	0.16	0.16	4.9	39.2	34.3
2013 Development Rock 2nd Quarter	0.03	0.03	ND	ND	ND	85.9	85.9
2013 Development Rock 3rd Quarter	0.04	0.02	0.02	ND	0.5	9.3	8.8
2013 Development Rock 4th Quarter	0.15	0.07	0.09	ND	2.7	91.2	88.5
2014 Development Rock 1st Quarter	0.03	0.03	ND	ND	ND	78.4	78.4
2014 Development Rock 2nd Quarter	0.17	0.03	0.14	ND	4.4	71.1	66.7
2014 Development Rock 3rd Quarter	0.02	0.02	ND	ND	ND	65.3	65.3
2014 Development Rock 4th Quarter	0.07	0.04	0.03	ND	0.8	65	64.2
2015 Development Rock 1st Quarter	0.115	0.07	0.05	ND	1.4	115	113.6
2015 Development Rock 2nd Quarter	0.15	0.06	0.09	ND	2.9	96.1	93.2
2015 Development Rock 3rd Quarter	0.09	0.07	0.02	ND	0.6	71.9	71.3
2015 Development Rock 4th Quarter	0.08	0.04	0.03	ND	1.1	111	109.9
2016 Development Rock 1st Quarter	0.08	0.02	0.06	ND	2.0	78.7	76.7
2016 Development Rock 2nd Quarter	0.03	0.03	ND	ND	ND	89.8	89.8
2016 Development Rock 3rd Quarter	0.04	0.01	0.03	ND	1.0	90.6	89.6
2016 Development Rock 4th Quarter	0.08	0.03	0.04	ND	1.3	70.4	69.1
2017 Development Rock 1st Quarter	0.09	ND	0.01	ND	3.2	77.5	74.3
2017 Development Rock 2nd Quarter	0.09	0.04	0.04	ND	1.3	94.9	93.6
2017 Development Rock 3rd Quarter	0.33	0.17	0.16	ND	4.9	70	65.1
2017 Development Rock 4th Quarter	0.09	0.02	0.07	ND	2.1	101	98.9
2018 Development Rock 1st Quarter	0.07	0.07	ND	ND	ND	94.9	94.9
2018 Development Rock 2nd Quarter	0.13	0.11	0.01	ND	0.4	97.9	97.5
2018 Development Rock 3rd Quarter	0.16	0.09	0.07	ND	2.2	106	103.8
2018 Development Rock 4th Quarter	0.05	ND	0.04	ND	1.4	47.1	45.7
2019 Development Rock 1st Quarter	0.22	0.09	0.12	ND	3.9	115	111
2019 Development Rock 2nd Quarter	0.16	0.09	0.06	ND	1.9	125	123
2019 Development Rock 3rd Quarter	0.07	0.07	ND	ND	ND	115	115
2019 Development Rock 4th Quarter	0.2	0.13	0.07	ND	2.3	79.9	77.6



**Table 3**

<b>2013/2014/2015/2016/2017/2018/2019 Tails MWMP Results</b>	TDS (mg/L)	pH	NH <sub>3</sub> (mg/L)	Al (ug/L)	As (ug/L)	Cd (ug/L)	Cr (ug/L)	Cu (ug/L)	Fe (ug/L)	Pb (ug/L)	Hg (ug/L)	Ni (ug/L)	Se (ug/L)	Ag (ug/L)	Zn (ug/L)	Nitrate as N (mg/L)	Sulfate as SO <sub>4</sub> (mg/L)
2013 Tails 1st Quarter	2380	7.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.3	ND	ND	ND	5.26	1580
2013 Tails 2nd Quarter	1720	7.84	0.52	489	ND	ND	ND	1.07	ND	ND	ND	16.2	31.8	ND	ND	ND	1240
2013 Tails 3rd Quarter	1700	7.53	0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.11	1120
2013 Tails 4th Quarter	2440	7.52	0.14	ND	ND	ND	ND	ND	ND	ND	ND	16.3	ND	ND	ND	4.50	1690
2014 Tails 1st Quarter	2360	7.44	9.53	ND	ND	ND	ND	ND	ND	ND	ND	21.2	ND	ND	ND	5.47	1710
2014 Tails 2nd Quarter	316	7.92	1.16	ND	ND	ND	ND	ND	ND	ND	ND	2.46	ND	ND	ND	ND	190
2014 Tails 3rd Quarter	891	7.87	0.47	ND	ND	ND	ND	ND	ND	ND	ND	6.3	ND	ND	ND	11.00	543
2014 Tails 4th Quarter	1240	7.72	1.72	ND	ND	ND	ND	ND	ND	ND	ND	0.81	ND	ND	ND	4.98	829
2015 Tails 1st Quarter	1160	7.78	2.67	ND	ND	ND	ND	ND	ND	ND	ND	7.00	ND	ND	ND	7.58	698
2015 Tails 2nd Quarter	1560	7.99	1.26	ND	ND	ND	ND	ND	ND	ND	ND	13.20	ND	ND	ND	3.36	1030
2015 Tails 3rd Quarter	947	7.78	2.43	ND	ND	ND	ND	ND	ND	ND	ND	6.60	ND	ND	ND	3.85	577
2015 Tails 4th Quarter	567	7.74	2.76	ND	ND	ND	2.3	ND	ND	ND	ND	3.40	ND	ND	ND	3.79	337
2016 Tails 1st Quarter	739	7.64	1.51	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	6.15	451
2016 Tails 2nd Quarter	1160	7.73	2.23	ND	ND	ND	1.79	ND	ND	ND	ND	ND	ND	ND	ND	8.09	680
2016 Tails 3rd Quarter	1020	7.94	2.51	ND	ND	ND	ND	ND	ND	ND	0.22	ND	ND	ND	ND	3.57	685
2016 Tails 4th Quarter	1110	7.60	3.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.75	684
2017 Tails 1st Quarter	1600	7.69	5.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.27	1090
2017 Tails 2nd Quarter	844	8.04	ND	ND	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	ND	4.74	522
2017 Tails 3rd Quarter	1630	7.59	ND	ND	3.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.31	1060
2017 Tails 4th Quarter	1200	7.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.62	792
2018 Tails 1st Quarter	2170	7.6	4.36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.24	1460
2018 Tails 2nd Quarter	995	7.8	0.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.2	610
2018 Tails 3rd Quarter	1030	7.5	ND	ND	ND	ND	1.18	ND	ND	ND	ND	ND	ND	ND	ND	10.3	674
2018 Tails 4th Quarter	853	7.6	0.728	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.97	533
2019 Tails 1st Quarter	1210	8.0	ND	ND	9.84	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.0	746
2019 Tails 2nd Quarter	983	7.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.9	634
2019 Tails 3rd Quarter	742	7.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.6	454
2019 Tails 4th Quarter	773	7.7	1.55	ND	ND	ND	ND	0.00191	ND	ND	ND	ND	ND	ND	0.0041	3.8	449

<b>2013/2014/2015/2016/2017/2018/2019 Tails ABA Results</b>	<i>Sulfur,</i>				<i>Acid</i>	<i>Neutralization</i>	<i>Acid - Base</i>
	<i>Sulfur Forms (Acid Extractable and Non-extractable Sulfur) 3.2.6</i>				<i>Potential</i>	<i>Potential</i>	<i>Accounting</i>
	<i>Total</i>						
	<i>3.2.4</i>	<i>Sulfate</i>	<i>Pyritic</i>	<i>Non-extractable</i>	<i>1.3.1</i>	<i>3.2.3</i>	<i>1.3.1</i>
<i>wt%</i>	<i>wt%</i>	<i>wt%</i>	<i>wt%</i>	<i>t CaCO3/1000t</i>	<i>t CaCO3/1000t</i>	<i>t CaCO3/1000t</i>	
2013 Tails 1st Quarter	0.16	0.14	0.02	0.02	0.5	110	110
2013 Tails 2nd Quarter	0.54	0.24	0.3	ND	9.3	88.9	79.7
2013 Tails 3rd Quarter	0.09	0.08	0.01	ND	0.3	115	115
2013 Tails 4th Quarter	0.22	0.18	0.03	ND	1.1	121	120
2014 Tails 1st Quarter	0.14	0.14	ND	ND	ND	120	120
2014 Tails 2nd Quarter	0.05	0.05	ND	ND	ND	93.5	93.5
2014 Tails 3rd Quarter	0.05	0.05	ND	ND	ND	116	116
2014 Tails 4th Quarter	0.18	0.11	0.07	ND	2.2	95.6	93.3
2015 Tails 1st Quarter	0.11	0.05	0.05	ND	1.7	103	101.3
2015 Tails 2nd Quarter	0.07	0.06	0.01	ND	0.4	123	122.6
2015 Tails 3rd Quarter	0.13	0.09	0.04	ND	1.3	111	109.7
2015 Tails 4th Quarter	0.26	0.09	0.17	ND	5.3	104	98.7
2016 Tails 1st Quarter	0.09	0.05	0.04	ND	1.3	127	125.7
2016 Tails 2nd Quarter	0.06	0.06	ND	ND	ND	118	118
2016 Tails 3rd Quarter	0.04	0.04	ND	ND	ND	98.1	98.1
2016 Tails 4th Quarter	0.11	0.09	0.02	ND	0.6	160	159.4
2017 Tails 1st Quarter	0.14	0.06	0.08	ND	2.4	120	117.6
2017 Tails 2nd Quarter	0.09	0.06	0.03	ND	1	128	127
2017 Tails 3rd Quarter	0.09	0.07	0.01	ND	0.3	120	119.7
2017 Tails 4th Quarter	0.17	0.1	0.07	ND	2.2	112	110
2018 Tails 1st Quarter	0.15	0.15	ND	ND	ND	155	155
2018 Tails 2nd Quarter	0.05	0.05	ND	ND	ND	118	118
2018 Tails 3rd Quarter	0.06	0.06	ND	ND	ND	125	125
2018 Tails 4th Quarter	0.05	0.05	ND	ND	ND	94	94
2019 Tails 1st Quarter	0.08	0.08	ND	ND	ND	147	147
2019 Tails 2nd Quarter	0.05	0.05	ND	ND	ND	93.7	93.7
2019 Tails 3rd Quarter	0.03	0.03	ND	ND	ND	97.2	97.2
2019 Tails 4th Quarter	0.05	0.05	ND	ND	ND	111	111

**Table 4**  
**Dam Seepage Sump**  
**Monthly Mean Flow**

**Waste Management Permit - Section 1.7.3**

Month	Mean Flow (gpm)
9/20/13 thru 9/30/13	70
10/1/13 thru 10/31/13	62
11/1/13 thru 11/30/13	34
12/1/13 thru 12/31/13	13
1/1/14 thru 1/31/14	124
2/1/14 thru 2/28/14	60
3/1/14 thru 3/31/14	47
4/1/14 thru 4/30/14	89
5/1/14 thru 5/31/14	65
6/1/14 thru 6/30/14	54
7/1/14 thru 7/31/14	65
8/1/14 thru 8/30/14	60
9/1/14 thru 9/30/14	66
10/1/14 thru 10/31/14	70
11/1/14 thru 11/30/14	43
12/1/14 thru 12/31/14	43
1/1/15 thru 1/31/15	86
2/1/15 thru 2/28/15	45
3/1/15 thru 3/31/15	37
4/1/15 thru 4/30/15	44
5/1/15 thru 5/31/15	24
6/1/15 thru 6/30/15	26
7/1/15 thru 7/31/15	27
8/1/15 thru 8/31/15	14
9/1/15 thru 9/30/15	66
10/1/15 thru 10/31/15	60
11/1/15 thru 11/30/15	64
12/1/15 thru 12/31/15	43
1/1/16 thru 1/31/16	75
2/1/16 thru 2/29/16	53
3/1/16 thru 3/31/16	28
4/1/16 thru 4/30/16	25
5/1/16 thru 5/31/16	19
6/1/16 thru 6/30/16	18
7/1/16 thru 7/31/16	21
8/1/16 thru 8/31/16	28
9/1/16 thru 9/30/16	77
10/1/16 thru 10/31/16	30
11/1/16 thru 11/30/16	31
12/1/16 thru 12/31/16	21
1/1/17 thru 1/31/17	62

Power out from 9/24/16 thru  
10/4/16

Power out from 11/6/16 thru  
11/20/16

**Table 4**  
**Dam Seepage Sump**  
**Monthly Mean Flow**

**Waste Management Permit - Section 1.7.3**

Month	Mean Flow (gpm)	
2/1/17 thru 2/28/17	46	
3/1/17 thru 3/31/17	24	
4/1/17 thru 4/30/17	60	
5/1/17 thru 5/31/17	29	
6/1/17 thru 6/30/17	20	
7/1/17 thru 7/31/17	23	
8/1/17 thru 8/31/17	36	
9/1/17 thru 9/30/17	95	Power out on 9/29/17
10/1/17 thru 10/31/17	58	
11/1/17 thru 11/30/17	21	
12/1/17 thru 12/31/17	93	
1/1/18 thru 1/31/18	55	
2/1/18 thru 2/28/18	16	
3/1/18 thru 3/31/18	34	
4/1/18 thru 4/30/18	46	Power out from 4/16/18 thru 4/18/18
5/1/18 thru 5/31/18	51	
6/1/18 thru 6/30/18	52	
7/1/18 thru 7/31/18	20	
8/1/18 thru 8/31/18	38	Power out: 8/8; 8/17; 8/31
9/1/18 thru 9/30/18	21	Power Out: 9/1 thru 9/4
10/1/18 thru 10/31/18	78	
11/1/18 thru 11/30/18	42	Power out: 11/4 thru 11/7; 11/9 thru 11-14; 11/16 thru 11/19
12/1/18 thru 12/31/18	46	Power out: 12/1 thru 12/5
1/1/19 thru 1/31/19	30	
2/1/19 thru 2/28/19	37	
3/1/19 thru 3/30/19	96	
4/1/19 thru 4/30/19	27	
5/1/19 thru 5/31/19	19	
6/1/19 thru 6/30/19	13	Power out: 6/11 thru 6/30
7/1/19 thru 7/31/19	39	Power out: 7/1 thru 7/6, 7/8, 7/18 thru 7/25
8/1/19 thru 8/31/19	13	
9/1/19 thru 9/30/19	24	
10/1/19 thru 10/31/19	36	
11/1/19 thru 11/30/19	50	
12/1/19 thru 12/31/19	40	

**Table 5**  
**Upper Slate Lake (USL/TTF bypass pipe)**  
**Weekly Mean Flow**  
**Waste Management Permit - Section 1.7.3**

Month	Mean Flow (gpm)
9/20/13 thru 9/21/13	8013
9/22/13 thru 9/29/13	2392
9/30/2013	1349
10/1/13 thru 10/6/13	2561
10/7/13 thru 10/13/13	2256
10/14/13 thru 10/20/13	2940
10/21/13 thru 10/27/13	4259
10/28/13 thru 11/3/13	2036
11/4/13 thru 11/10/13	1461
11/11/13 thru 11/17/13	818
11/18/13 thru 11/24/13	970
11/25/13 thru 12/1/13	1840
12/2/13 thru 12/8/13	465
12/9/13 thru 12/15/13	408
12/16/13 thru 12/22/13	1889
12/23/13 thru 12/29/13	1166
12/30/13 thru 1/5/14	1710
1/6/14 thru 1/12/14	1215
1/13/14 thru 1/19/14	4002
1/20/14 thru 1/26/14	4390
1/27/14 thru 2/02/14	2442
2/3/14 thru 2/9/14	921
2/10/14 thru 2/16/14	488
2/17/14 thru 2/23/14	311
2/24/14 thru 3/2/14	128
3/3/14 thru 3/9/14	964
3/10/14 thru 3/16/14	1004
3/17/14 thru 3/23/14	206
3/24/14 thru 3/30/14	29
3/31/14 thru 4/6/14	56
4/7/14 thru 4/13/14	1410
4/14/14 thru 4/20/14	1817
4/21/14 thru 4/27/14	3357
4/28/14 thru 5/4/14	4290
5/5/14 thru 5/11/14	2890
5/12/14 thru 5/18/14	2515
5/19/14 thru 5/25/14	2469
5/26/14 thru 6/1/14	868
6/2/14 thru 6/8/14	1035
6/9/14 thru 6/15/14	1843
6/16/14 thru 6/22/14	1526

**Table 5**  
**Upper Slate Lake (USL/TTF bypass pipe)**  
**Weekly Mean Flow**  
**Waste Management Permit - Section 1.7.3**

Month	Mean Flow (gpm)
6/23/14 thru 6/29/14	2221
6/30/14 thru 7/6/14	1417
7/7/14 thru 7/13/14	2965
7/14/14 thru 7/20/14	3176
7/21/14 thru 7/27/14	1099
7/28/14 thru 8/3/14	1568
8/4/14 thru 8/10/14	779
8/11/14 thru 8/17/14	5382
8/18/14 thru 8/24/14	2665
8/25/14 thru 8/31/14	962
9/1/14 thru 9/7/14	2437
9/8/14 thru 9/14/14	2295
9/15/14 thru 9/21/14	2115
9/22/14 thru 9/28/14	3040
9/29/14 thru 10/5/14	4672
10/6/14 thru 10/12/14	5183
10/13/14 thru 10/19/14	2459
10/20/14 thru 10/26/14	2070
10/27/14 thru 11/2/14	1260
11/3/14 thru 11/9/14	1871
11/10/14 thru 11/16/14	947
11/17/14 thru 11/23/14	1068
11/24/14 thru 11/30/14	868
12/1/14 thru 12/7/14	413
12/8/14 thru 12/14/14	2234
12/15/14 thru 12/21/14	1699
12/22/14 thru 12/28/14	672
12/29/14 thru 1/4/15	590
1/5/15 thru 1/11/15	326
1/12/15 thru 1/18/15	4651
1/19/15 thru 1/25/15	6295
1/26/15 thru 2/1/15	3062
2/2/15 thru 2/8/15	921
2/9/15 thru 2/15/15	1123
2/16/15 thru 2/22/15	1579
2/23/15 thru 3/1/15	2333
3/2/15 thru 3/8/15	986
3/9/15 thru 3/15/15	1324
3/16/15 thru 3/22/15	867
3/23/15 thru 3/29/15	947
3/30/15 thru 4/5/15	1419

**Table 5**  
**Upper Slate Lake (USL/TTF bypass pipe)**  
**Weekly Mean Flow**  
**Waste Management Permit - Section 1.7.3**

Month	Mean Flow (gpm)
4/6/15 thru 4/12/15	1667
4/13/15 thru 4/19/15	2010
4/20/15 thru 4/26/15	2076
4/27/15 thru 5/3/15	1299
5/4/15 thru 5/10/15	608
5/11/15 thru 5/17/15	592
5/18/15 thru 5/24/15	455
5/25/15 thru 5/31/15	325
6/1/15 thru 6/7/15	1224
6/8/15 thru 6/14/15	1146
6/15/15 thru 6/21/15	239
6/22/15 thru 6/28/15	145
6/29/15 thru 7/5/15	493
7/6/15 thru 7/12/15	181
7/13/15 thru 7/19/15	937
7/20/15 thru 7/26/15	633
7/27/15 thru 8/2/15	2149
8/3/15 thru 8/9/15	495
8/10/15 thru 8/16/15	1184
8/17/15 thru 8/23/15	1079
8/24/15 thru 8/30/15	2900
8/31/15 thru 9/6/15	1440
9/7/15 thru 9/13/15	3115
9/14/15 thru 9/20/15	2700
9/21/15 thru 9/27/15	1363
9/28/15 thru 10/4/15	3318
10/5/15 thru 10/11/15	2419
10/12/15 thru 10/18/15	3226
10/19/15 thru 10/25/15	3482
10/26/15 thru 11/1/15	1205
11/2/15 thru 11/8/15	2190
11/9/15 thru 11/15/15	2324
11/16/15 thru 11/22/15	1444
11/23/15 thru 11/29/15	1737
11/30/15 thru 12/6/15	2831
12/7/15 thru 12/13/15	758
12/14/15 thru 12/20/15	464
12/21/15 thru 12/27/15	241
12/28/15 thru 1/3/16	698
1/4/16 thru 1/10/16	404
1/11/16 thru 1/17/16	2684

**Table 5**  
**Upper Slate Lake (USL/TTF bypass pipe)**  
**Weekly Mean Flow**  
**Waste Management Permit - Section 1.7.3**

Month	Mean Flow (gpm)
1/18/16 thru 1/24/16	1048
1/25/16 thru 1/31/16	6135
2/1/16 thru 2/7/16	1206
2/8/16 thru 2/14/16	2371
2/15/16 thru 2/21/16	888
2/22/16 thru 2/28/16	2641
2/29/16 thru 3/6/16	1109
3/7/16 thru 3/13/16	769
3/14/16 thru 3/20/16	493
3/21/16 thru 3/27/16	777
3/28/16 thru 4/3/16	2031
4/4/16 thru 4/10/16	1930
4/11/16 thru 4/17/16	1267
4/18/16 thru 4/24/16	1117
4/25/16 thru 5/1/16	1826
5/2/16 thru 5/8/16	1953
5/9/16 thru 5/15/16	4020
5/16/16 thru 5/22/16	1135
5/23/16 thru 5/29/16	1306
5/30/16 thru 6/5/16	512
6/16/16 thru 6/12/16	666
6/13/16 thru 6/19/16	439
6/20/16 thru 6/26/16	75
6/27/16 thru 7/3/16	251
7/4/16 thru 7/10/16	261
7/11/16 thru 7/17/16	0
7/18/16 thru 7/24/16	308
7/25/16 thru 7/31/16	1947
8/1/16 thru 8/7/16	590
8/8/16 thru 8/14/16	1928
8/15/16 thru 8/21/16	1779
8/22/16 thru 8/28/16	1731
8/29/16 thru 9/4/16	621
9/5/16 thru 9/11/16	1011
9/12/16 thru 9/18/16	6171
9/19/16 thru 9/25/16	2640
9/26/16 thru 10/2/16	No Power
10/3/16 thru 10/9/16	413
10/10/16 thru 10/16/16	204
10/17/16 thru 10/23/16	2288
10/24/16 thru 10/30/16	546

No power on 10/3/16

**Table 5**  
**Upper Slate Lake (USL/TTF bypass pipe)**  
**Weekly Mean Flow**  
**Waste Management Permit - Section 1.7.3**

Month	Mean Flow (gpm)
10/31/16 thru 11/6/16	643
11/7/16 thru 11/13/16	2335
11/14/16 thru 11/20/16	2089
11/21/16 thru 11/27/16	286
11/28/16 thru 12/4/16	2583
12/5/16 thru 12/11/16	654
12/12/16 thru 12/18/16	223
12/19/16 thru 12/25/16	691
12/26/16 thru 1/01/17	265
1/2/17 thru 1/8/17	128
1/9/17 thru 1/15/17	782
1/16/17 thru 1/22/17	2407
1/23/17 thru 1/29/17	1360
1/30/17 thru 2/5/17	673
2/6/17 thru 2/12/17	126
2/13/17 thru 2/19/17	3263
2/20/17 thru 2/26/17	503
2/27/17 thru 3/5/17	191
3/6/17 thru 3/12/17	2062
3/13/17 thru 3/19/17	0
3/20/17 thru 3/26/17	4385
3/27/17 thru 4/2/17	1225
4/3/17 thru 4/9/17	1575
4/10/17 thru 4/16/17	2906
4/17/17 thru 4/23/17	1780
4/24/17 thru 4/30/17	3021
5/1/17 thru 5/7/17	1705
5/8/17 thru 5/14/17	1287
5/15/17 thru 5/21/17	1099
5/22/17 thru 5/28/17	2997
5/29/17 thru 6/4/17	1023
6/5/17 thru 6/11/17	554
6/12/17 thru 6/18/17	410
6/19/17 thru 6/25/17	22
6/26/17 thru 7/2/17	64
7/3/17 thru 7/9/17	1249
7/10/17 thru 7/16/17	579
7/17/17 thru 7/23/17	394
7/24/17 thru 7/30/17	386
7/31/17 thru 8/6/17	379
8/7/17 thru 8/13/17	255

No power 11/16-11/20

Frozen from 3-1 thru 3-5

Frozen on 3-14



**Table 5**  
**Upper Slate Lake (USL/TTF bypass pipe)**  
**Weekly Mean Flow**  
**Waste Management Permit - Section 1.7.3**

Month	Mean Flow (gpm)	
8/14/17 thru 8/20/17	289	
8/21/17 thru 8/27/17	3462	
8/28/17 thru 9/3/17	2853	
9/4/17 thru 9/10/17	5851	
9/11/17 thru 9/17/17	2049	
9/18/17 thru 9/24/17	1128	
9/25/17 thru 10/1/17	3214	
10/2/17 thru 10/8/17	1964	
10/9/17 thru 10/15/17	1775	
10/16/17 thru 10/22/17	1762	
10/23/17 thru 10/29/17	3210	
10/30/17 thru 11/5/17	1242	meter reset
11/6/17 thru 11/12/17	415	
11/13/17 thru 11/19/17	303	
11/20/17 thru 11/26/17	26	
11/27/17 thru 12/3/17	0	Frozen
12/4/17 thru 12/10/17	3739	
12/11/17 thru 12/17/17	6591	meter reset
12/18/17 thru 12/24/17	1235	
12/25/17 thru 12/31/17	451	Partially Frozen
1/1/18 thru 1/7/18	4359	
1/8/18 thru 1/14/18	924	
1/15/18 thru 1/21/18	1678	
1/22/18 thru 1/28/18	406	
1/29/18 thru 2/4/18	1433	
2/5/18 thru 2/11/18	4576	
2/12/18 thru 2/18/18	0	Frozen
2/19/18 thru 2/25/18	0	Frozen
2/26/18 thru 3/4/18	0	Frozen
3/5/18 thru 3/11/18	0	Frozen
3/12/18 thru 3/18/18	2552	
3/19/18 thru 3/25/18	501	
3/26/18 thru 4/1/18	58	
4/2/18 thru 4/8/18	1967	
4/9/18 thru 4/15/18	2781	
4/16/18 thru 4/22/18	2055	
4/23/18 thru 4/29/18	2835	
4/30/18 thru 5/6/18	1894	
5/7/18 thru 5/13/18	1283	
5/14/18 thru 5/20/18	1042	
5/21/18 thru 5/27/18	2693	

**Table 5**  
**Upper Slate Lake (USL/TTF bypass pipe)**  
**Weekly Mean Flow**  
**Waste Management Permit - Section 1.7.3**

Month	Mean Flow (gpm)
5/28/18 thru 6/3/18	1466
6/4/18 thru 6/10/18	594
6/11/18 thru 6/17/18	402
6/18/18 thru 6/24/18	91
6/25/18 thru 7/01/18	0
7/2/18 thru 7/8/18	0
7/9/18 thru 7/15/18	0
7/16/18 thru 7/22/18	0
7/23/18 thru 7/29/18	0
7/30/18 thru 8/5/18	0
8/6/18 thru 8/12/18	430
8/13/18 thru 8/19/18	372
8/20/18 thru 8/26/18	33
8/27/18 thru 9/2/18	1180
9/3/18 thru 9/9/18	443
9/10/18 thru 9/16/18	13
9/17/18 thru 9/23/18	22
9/24/18 thru 9/30/18	35
10/1/18 thru 10/7/18	699
10/8/18 thru 10/14/18	1153
10/15/18 thru 10/21/18	7712
10/22/18 thru 10/28/18	4377
10/29/18 thru 11/4/18	735
11/5/18 thru 11/11/18	1370
11/12/18 thru 11/18/18	3705
11/19/18 thru 11/25/18	2572
11/26/18 thru 12/2/18	2105
12/3/18 thru 12/9/18	461
12/10/18 thru 12/16/18	2385
12/17/18 thru 12/23/18	1141
12/24/18 thru 12/30/18	1162
12/31/18 thru 1/06/19	3154
1/7/19 thru 1/13/19	365
1/14/19 thru 1/20/19	462
1/21/19 thru 1/27/19	1846
1/28/19 thru 2/3/19	2323
2/4/19 thru 2/10/19	464
2/11/19 thru 2/17/19	304
2/18/19 thru 2/24/19	288
2/25/19 thru 3/3/19	274
3/4/19 thru 3/10/19	267

**Table 5**  
**Upper Slate Lake (USL/TTF bypass pipe)**  
**Weekly Mean Flow**  
**Waste Management Permit - Section 1.7.3**

Month	Mean Flow (gpm)
3/11/19 thru 3/17/19	1726
3/18/19 thru 3/24/19	5157
3/25/19 thru 3/31/19	2036
4/1/19 thru 4/7/19	1203
4/8/19 thru 4/14/19	1360
4/15/19 thru 4/21/19	844
4/22/19 thru 4/28/19	1677
4/29/19 thru 5/5/19	503
5/6/19 thru 5/12/19	657
5/13/19 thru 5/19/19	1135
5/20/19 thru 5/26/19	640
5/27/19 thru 6/2/19	218
6/3/19 thru 6/9/19	208
6/10/19 thru 6/16/19	755
6/17/19 thru 6/23/19	1298
6/24/19 thru 6/30/19	129
7/1/19 thru 7/7/19	277
7/8/19 thru 7/14/19	319
7/15/19 thru 7/21/19	480
7/22/19 thru 7/28/19	621
7/29/19 thru 8/4/19	442
8/5/19 thru 8/11/19	290
8/12/19 thru 8/18/19	269
8/19/19 thru 8/25/19	475
8/26/19 thru 9/1/19	1035
9/2/19 thru 9/8/19	369
9/9/19 thru 9/15/19	344
9/16/19 thru 9/22/19	2200
9/23/19 thru 9/29/19	1190
9/30/19 thru 10/6/19	2913
10/7/19 thru 10/13/19	2654
10/14/19 thru 10/20/19	1822
10/21/19 thru 10/27/19	2148
10/28/19 thru 11/3/19	1142
11/4/19 thru 11/10/19	2837
11/11/19 thru 11/17/19	4088
11/18/19 thru 11/24/19	5661
11/25/19 thru 12/1/19	1782
12/2/19 thru 12/8/19	1389
12/9/19 thru 12/15/19	2206
12/16/19 thru 12/22/19	1097

No power 5/17-5/18

No power 5/22-5/24

No power 6/10-11&6/14-15

No power 6/17-18

**Table 5**  
**Upper Slate Lake (USL/TTF bypass pipe)**  
**Weekly Mean Flow**  
**Waste Management Permit - Section 1.7.3**

Month	Mean Flow (gpm)
12/23/19 thru 12/29/19	1901
12/30/19 thru 1/5/20	4094

**Table 6**  
**Monthly Precipitation**  
**Rainfall & Cumulative Snow**

**Waste Management Permit - Section 1.7.3**

Month	Rainfall (Total Precipitation) (inches)	Snowfall (Cumulative) (inches)	Snowfall (monthly) (inches)
9/20/13 thru 9/30/13	4.46	0	0
10/1/13 thru 10/31/13	14.31	0	0
11/1/13 thru 11/30/13	7.31	8.8	8.80
12/1/13 thru 12/31/13	11.59	85.4	76.60
1/1/14 thru 1/31/14	12.08	119.3	33.86
2/1/14 thru 2/28/14	1.65	142.9	23.62
3/1/14 thru 3/31/14	4.37	178.7	35.83
4/1/14 thru 4/30/14	4.54	181.9	3.15
5/1/14 thru 5/31/14	3.40	181.9	0.00
6/1/14 thru 6/30/14	9.60	181.9	0.00
7/1/14 thru 7/31/14	12.8	181.9	0.00
8/1/14 thru 8/30/14	11.02	0.0	0.00
9/1/14 thru 9/31/14	14.77	0.0	0.00
10/1/14 thru 10/31/14	12.39	0.0	0.00
11/1/14 thru 11/30/14	6.85	3.9	3.94
12/1/14 thru 12/31/14	6.70	8.7	4.72
1/1/15 thru 1/31/15	15.60	28.3	19.69
2/1/15 thru 2/28/15	5.16	40.55	12.20
3/1/15 thru 3/31/15	6.10	46.85	6.30
4/1/15 thru 4/30/15	10.47	46.85	0.00
5/1/15 thru 5/31/15	0.89	46.85	0.00
6/1/15 thru 6/30/15	6.36	46.85	0.00
7/1/15 thru 7/31/15	11.65	46.85	0.00
8/1/15 thru 8/31/15	11.78	46.85	0.00
9/1/15 thru 9/30/15	13.60	46.85	0.00
10/1/15 thru 10/31/15	12.74	0.00	0.00
11/1/15 thru 11/30/15	14.33	22.44	22.44
12/1/15 thru 12/31/15	5.10	64.17	41.73
1/1/16 thru 1/31/16	11.93	70.87	6.69
2/1/16 thru 2/29/16	7.01	81.50	10.63
3/1/16 thru 3/31/16	4.13	85.04	3.54
4/1/16 thru 4/30/16	7.47	85.04	0.00
5/1/16 thru 5/31/16	8.50	85.04	0.00
6/1/16 thru 6/30/16	5.22	85.04	0.00
7/1/16 thru 7/31/16	8.10	0.00	0.00
8/1/16 thru 8/31/16	10.24	0.00	0.00
9/1/16 thru 9/30/16	12.98	0.00	0.00
10/1/16 thru 10/31/16	5.03	15.75	15.75
11/1/16 thru 11/30/16	8.28	29.53	13.78
12/1/16 thru 12/31/16	12.05	132.09	102.56
1/1/17 thru 1/31/17	9.37	163.58	31.50

**Table 6**  
**Monthly Precipitation**  
**Rainfall & Cumulative Snow**  
**Waste Management Permit - Section 1.7.3**

Month	Rainfall (Total Precipitation) (inches)	Snowfall (Cumulative) (inches)	Snowfall (monthly) (inches)
2/1/17 thru 2/28/17	9.00	210.43	46.85
3/1/17 thru 3/31/17	3.38	243.11	32.68
4/1/17 thru 4/30/17	4.42	243.11	0.00
5/1/17 thru 5/31/17	5.98	243.11	0.00
6/1/17 thru 6/30/17	4.12	243.11	0.00
7/1/17 thru 7/31/17	6.75	0.00	0.00
8/1/17 thru 8/31/17	9.91	0.00	0.00
9/1/17 thru 9/30/17	17.04	0.00	0.00
10/1/17 thru 10/31/17	10.45	0.00	0.00
11/1/17 thru 11/30/17	1.98	26.38	26.38
12/1/17 thru 12/31/17	13.26	44.49	18.11
1/1/18 thru 1/31/18	7.31	46.85	2.36
2/1/18 thru 2/28/18	1.30	54.72	7.87
3/1/18 thru 3/31/18	6.23	78.35	23.62
4/1/18 thru 4/30/18	5.24	78.35	0.00
5/1/18 thru 5/31/18	9.48	78.35	0.00
6/1/18 thru 6/30/18	3.71	78.35	0.00
7/1/18 thru 7/31/18	3.15	0	0.00
8/1/18 thru 8/31/18	10.24	0	0.00
9/1/18 thru 9/30/18	2.85	0	0.00
10/1/18 thru 10/31/18	13.93	0	0.00
11/1/18 thru 11/30/18	8.27	0	0.00
12/1/18 thru 12/31/18	6.80	21.65	21.65
1/1/19 thru 1/31/19	7.69	49.41	27.76
2/1/19 thru 2/28/19	2.29	82.87	33.46
3/1/19 thru 3/31/19	5.54	101.77	18.90
4/1/19 thru 4/30/19	4.78	101.77	0.00
5/1/19 thru 5/31/19	3.78	101.77	0.00
6/1/19 thru 6/30/19	4.52	101.77	0.00
7/1/19 thru 7/31/19	2.78	0.00	0.00
8/1/19 thru 8/31/19	4.10	0.00	0.00
9/1/19 thru 9/30/19	7.39	0.00	0.00
10/1/19 thru 10/31/19	13.14	0.00	0.00
11/1/19 thru 11/30/19	13.96	1.57	1.57
12/1/19 thru 12/31/19	12.18	6.56	4.98

**Table 7**  
**GPPTP Effluent**  
**Monthly Mean Flow**  
**Waste Management Permit - Section 1.7.3**

Month	Mean Flow (gpm)
9/20/13 thru 9/30/13	12.74
10/1/13 thru 10/31/13	11.12
11/1/13 thru 11/30/13	3.36
12/1/13 thru 12/31/13	0
1/1/14 thru 1/31/14	0
2/1/14 thru 2/28/14	0
3/1/14 thru 3/31/14	0
4/1/14 thru 4/30/14	10.95
5/1/14 thru 5/31/14	5.89
6/1/14 thru 6/30/14	2.63
7/1/14 thru 7/30/14	3.05
8/1/14 thru 8/31/14	2.95
9/1/14 thru 9/30/14	4.39
10/1/14 thru 10/31/14	4.13
11/1/14 thru 11/30/14	1.43
12/1/14 thru 12/31/14	0.62
1/1/15 thru 1/31/15	2.39
2/1/15 thru 2/28/15	1.47
3/1/15 thru 3/31/15	5
4/1/15 thru 4/30/15	9.54
5/1/15 thru 5/31/15	1.85
6/1/15 thru 6/30/15	4.52
7/1/15 thru 7/31/15	4.91
8/1/15 thru 8/31/15	8.66
9/1/15 thru 9/30/15	11.54
10/1/15 thru 10/31/15	10.65
11/1/15 thru 11/30/15	5.68
12/1/15 thru 12/31/15	1.49
1/1/16 thru 1/31/16	0.03
2/1/16 thru 2/29/16	1.06
3/1/16 thru 3/31/16	1.25
4/1/16 thru 4/30/16	3.71
5/1/16 thru 5/31/16	4.15
6/1/16 thru 6/30/16	1.39
7/1/16 thru 7/31/16	4.08
8/1/16 thru 8/31/16	3.37
9/1/16 thru 9/30/16	5.03
10/1/16 thru 10/31/16	3.37
11/1/16 thru 11/30/16	5.09
12/1/16 thru 12/31/16	1.47
1/1/17 thru 1/31/17	0.1

Month	Mean Flow (gpm)
2/1/17 thru 2/28/17	0
3/1/17 thru 3/31/17	0
4/1/17 thru 4/30/17	1.4
5/1/17 thru 5/31/17	2
6/1/17 thru 6/30/17	0.67
7/1/17 thru 7/31/17	2.17
8/1/17 thru 8/31/17	1.19
9/1/17 thru 9/30/17	7.05
10/1/17 thru 10/31/17	2.48
11/1/17 thru 11/30/17	0.1
12/1/17 thru 12/31/17	2.47
1/1/18 thru 1/31/18	0.01
2/1/18 thru 2/28/18	0
3/1/18 thru 3/31/18	0
4/1/18 thru 4/30/18	0.13
5/1/18 thru 5/31/18	0
6/1/18 thru 6/30/18	0.06
7/1/18 thru 7/31/18	0.03
8/1/18 thru 8/31/18	0.82
9/1/18 thru 9/30/18	1.04
10/1/18 thru 10/31/18	1.13
11/1/18 thru 11/30/18	2.11
12/1/18 thru 12/31/18	0.04
1/1/19 thru 1/31/19	0
2/1/19 thru 2/28/19	0
3/1/19 thru 3/31/19	0
4/1/19 thru 4/30/19	0.32
5/1/19 thru 5/31/19	0.11
6/1/19 thru 6/30/19	0.1
7/1/19 thru 7/31/19	0.03
8/1/19 thru 8/31/19	0.02
9/1/19 thru 9/30/19	0.29
10/1/19 thru 10/31/19	1.62
11/1/19 thru 11/30/19	1.88
12/1/19 thru 12/31/19	0.39



**Table 8**  
**Mine Drainage to WTP**  
**Monthly Mean Flow**  
**Waste Management Permit - Section 1.7.3**

Month	Mean Flow (gpm)
9/20/13 thru 9/30/13	1589
10/1/13 thru 10/31/13	1622
11/1/13 thru 11/30/13	1426
12/1/13 thru 12/31/13	991
1/1/14 thru 1/31/14	796
2/1/14 thru 2/28/14	857
3/1/14 thru 3/31/14	711
4/1/14 thru 4/30/14	597
5/1/14 thru 5/31/14	1294
6/1/14 thru 6/30/14	1443
7/1/14 thru 7/31/14	1521
8/1/14 thru 8/31/14	1281
9/1/14 thru 9/30/14	1330
10/1/14 thru 10/31/14	1401
11/1/14 thru 11/30/14	1138
12/1/14 thru 12/31/14	997
1/1/15 thru 1/31/15	999
2/1/15 thru 2/28/15	1113
3/1/15 thru 3/31/15	922
4/1/15 thru 4/30/15	908
5/1/15 thru 5/31/15	1194
6/1/15 thru 6/30/15	1094
7/1/15 thru 7/31/15	934
8/1/15 thru 8/31/15	1221
9/1/15 thru 9/30/15	1324
10/1/15 thru 10/31/15	1524
11/1/15 thru 11/30/15	1326
12/1/15 thru 12/31/15	1135
1/1/16 thru 1/31/16	890
2/1/16 thru 2/29/16	982
3/1/16 thru 3/31/16	867
4/1/16 thru 4/30/16	1520
5/1/16 thru 5/31/16	1445
6/1/16 thru 6/30/16	1303
7/1/16 thru 7/31/16	1315
8/1/16 thru 8/31/16	1109
9/1/16 thru 9/30/16	1404
10/1/16 thru 10/31/16	1311
11/1/16 thru 11/30/16	1303
12/1/16 thru 12/31/16	1173
1/1/17 thru 1/31/17	867

Month	Mean Flow (gpm)
2/1/17 thru 2/28/17	846
3/1/17 thru 3/31/17	762
4/1/17 thru 4/30/17	922
5/1/17 thru 5/31/17	1642
6/1/17 thru 6/30/17	1771
7/1/17 thru 7/31/17	1559
8/1/17 thru 8/31/17	1361
9/1/17 thru 9/30/17	1732
10/1/17 thru 10/31/17	1777
11/1/17 thru 11/30/17	1372
12/1/17 thru 12/31/17	1382
1/1/18 thru 1/31/18	1312
2/1/18 thru 2/28/18	1176
3/1/18 thru 3/31/18	1081
4/1/18 thru 4/30/18	1020
5/1/18 thru 5/31/18	1637
6/1/18 thru 6/30/18	1755
7/1/18 thru 7/31/18	1416
8/1/18 thru 8/31/18	1414
9/1/18 thru 9/30/18	1410
10/1/18 thru 10/31/18	1527
11/1/18 thru 11/30/18	1712
12/1/18 thru 12/31/18	1565
1/1/19 thru 1/31/19	1328
2/1/19 thru 2/28/19	1265
3/1/19 thru 3/31/19	1150
4/1/19 thru 4/30/19	1418
5/1/19 thru 5/31/19	1590
6/1/19 thru 6/30/19	1445
7/1/19 thru 7/31/19	1302
8/1/19 thru 8/31/19	1120
9/1/19 thru 9/30/19	1132
10/1/19 thru 10/31/19	1594
11/1/19 thru 11/30/19	1909
12/1/19 thru 12/31/19	1755