



February 24, 2016

Alaska Department of Environmental Conservation
Division of Water
410 Willoughby Ave., Ste. 303
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 2015 monitoring report and the 2015 annual report as required by the permit.

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.

Sincerely,

A handwritten signature in blue ink, appearing to read "Wayne Zigarlick".

Wayne Zigarlick
VP & General Manager

XC: Will Collingwood, ADEC- Juneau _ electronic copy
Brad Orr – Forest Service
Kyle Moselle – ADNR _ electronic copy

**Coeur Alaska - Kensington Gold Mine
Waste Management Permit No. 2013DB0002
4th Quarter 2015 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	No samples were collected during the reporting period as samples were collected in the third quarter of 2015.	N/A	When Observed (no more frequently than annually)
8	Graphitic phyllite seeps at the Northwest end of the TTF	Samples collected and reported in attached table 1 for the 4th quarter of 2015.	N/A	Quarterly when accessible
9	GPPTP effluent	See Attached Table 1 for Results.	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	See Attached Table 2 for results	N/A	Quarterly
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 10-1-15 thru 12-31-15; Inspection forms can be provided upon request.	None	Weekly
17	Tailings Pipeline	Once a week during reporting period of 10-1-15 thru 12-31-15; 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	Hardness, Total	Dissolved Arsenic	Dissolved Cadmium	
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	mg/L	ug/L	ug/L	
Mine Drainage to WTP	9/25/2013	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	597	<2.5	<0.02	
Mine Drainage to WTP	10/23/2013	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	194	<2.5	<0.02	
Mine Drainage to WTP	11/7/2013	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	152	<2.5	<0.1	
Mine Drainage to WTP	12/10/2013	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	208	<2.5	<0.02	
Mine Drainage to WTP	1/6/2014	608	11.6	70	8.2	12.22	7.75	1011	24.9	<0.10	198	490	4.2	13000	28.2	<0.2	413	<2.5	<0.02	
Mine Drainage to WTP	2/10/2014	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	414	<2.5	<0.02	
Mine Drainage to WTP	3/13/2014	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	233	<2.5	<0.02	
Mine Drainage to WTP	4/9/2014	512	1.45	57	8.7	11.19	7.96	556	12.9	0.13	178	386	2.7	6960	12.6	<0.2	286	<2.5	<0.02	
Mine Drainage to WTP	5/19/2014	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	136	<2.5	<0.02	
Mine Drainage to WTP	6/9/2014	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	150	<2.5	<0.02	
Mine Drainage to WTP	7/24/2014	878	19	8.9	12.4	10.23	8.01	910	19.8	0.68	455	3110	17.8	53800	111	1.2	853	<2.5	<0.02	
Mine Drainage to WTP	8/7/2014	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	234	<2.5	<0.02	
Mine Drainage to WTP	9/3/2014	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	214	<2.5	0.14	
Mine Drainage to WTP	10/23/2014	183	0.99	<2.0	7.4	11.84	7.38	176.6	1.62	0.1	11.84	54	48.4	<2.5	2790	3.97	<0.2	141	<2.5	<0.02
Mine Drainage to WTP	11/6/2014	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	154	<2.5	<0.02	
Mine Drainage to WTP	12/3/2014	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	164	<2.5	<0.02	
Mine Drainage to WTP	1/15/2015	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	137	<2.5	<0.02	
Mine Drainage to WTP	2/11/2015	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	175	<2.5	<0.02	
Mine Drainage to WTP	3/12/2015	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	134	<2.5	<0.02	
Mine Drainage to WTP	4/2/2015	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	185	<2.5	<0.02	
Mine Drainage to WTP	5/19/2015	403	1.76	39	9.9	10.97	7.11	545	9.1	<0.10	124	110	<2.5	5060	9.03	<0.2	229	<2.5	<0.02	
Mine Drainage to WTP	6/8/2015	535	2.18	<50	10.8	11.22	6.65	604	11.1	0.14	11.22	156	7.03	<2.5	1220	2.18	<0.2	239	<2.5	<0.02
Mine Drainage to WTP	7/7/2015	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	249	<2.5	<0.02	
Mine Drainage to WTP	8/10/2015	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	312	<2.5	<0.020	
Mine Drainage to WTP	9/1/2015	143	0.36	2.5	7.2	13.24	6.49	159	0.82	<0.10	13.24	159	<2.5	3350	4.72	<0.2	121	<2.5	<0.02	
Mine Drainage to WTP	10/13/2015	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	113	<2.5	<0.020	
Mine Drainage to WTP	11/10/2015	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	175	<2.5	<0.020	
Mine Drainage to WTP	12/14/2015	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	114	<2.5	<0.020	
Dam Seepage Sump	9/25/2013	1040	<0.10	2.8	10.4	6.25	7.22	1349	1.57	<0.10	605	0.63	<2.5	126	0.476	<0.2	697	<2.5	5.3	
Dam Seepage Sump	10/23/2013	464	<0.10	<2.0	6	10.68	7.35	658.5	0.96	<0.10	272	23.2	4.72	<2.5	1290	4.72	<0.2	289	<2.5	13.6
Dam Seepage Sump	11/11/2013	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	507	<2.5	6.26	
Dam Seepage Sump	12/11/2013	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	685	<2.5	3.97	
Dam Seepage Sump	1/6/2014	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	359	<2.5	2.53	
Dam Seepage Sump	2/10/2014	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	267	<2.5	4.24	
Dam Seepage Sump	3/12/2014	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	118	<2.5	0.99	
Dam Seepage Sump	4/9/2014	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	415	<2.5	1.26	
Dam Seepage Sump	5/19/2014	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	354	<2.5	2.47	
Dam Seepage Sump	6/9/2014	498	<0.10	<2.0	9.7	7.37	448.6	1.41	9.32	<0.10	272	38.9	<2.5	1230	7.32	<0.2	307	<2.5	14.2	
Dam Seepage Sump	7/24/2014	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	533	<2.5	2.8	
Dam Seepage Sump	8/7/2014	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	569	<2.5	3.04	
Dam Seepage Sump	9/3/2014	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	562	<2.5	2.9	
Dam Seepage Sump	10/23/2014	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	480	<2.5	1.9	
Dam Seepage Sump	11/6/2014	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	494	<2.5	1.8	
Dam Seepage Sump	12/3/2014	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	546	<2.5	1.78	
Dam Seepage Sump	1/15/2015	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	352	<2.5	0.8	
Dam Seepage Sump	2/11/2015	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	457	<2.5	1.28	
Dam Seepage Sump	3/12/2015	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	437	<2.5	1.18	
Dam Seepage Sump	4/2/2015	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	437	<2.5	1.27	
Dam Seepage Sump	5/19/2015	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	556	<2.5	1.9	
Dam Seepage Sump	6/8/2015	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	554	<2.5	2.2	
Dam Seepage Sump	7/7/2015	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	622	<2.5	2.58	
Dam Seepage Sump	8/10/2015	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	660	<2.5	2.48	
Dam Seepage Sump	9/1/2015	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	578	<2.5	2.87	
Dam Seepage Sump	10/13/2015	501	<0.10	2	8.3	8.32	6.89	475.5	1.29	<0.10	8.32	241	1.09	<2.5	0.102	<0.20	364	<2.5	0.831	
Dam Seepage Sump	11/10/2015	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	412	<2.5	0.978	
Dam Seepage Sump	12/14/2015	592	0.14	2.4	4.2	7.27	7.31	299	1.01	<0.10	299	0.39	<2.5	19	0.094	<0.20	402	<2.5	1.14	
GPPTP	9/30/2013	1210	0.23	2.5	13.8	6.77	8.43	1420	0.55	<0.10	794	1.57	<2.5	1340	0.328	<0.2	793	<2.5	1.9	
GPPTP	10/23/2013	532	0.38	15.7	6.9	10.62	7.56	480.5	0.56	<0.10	338	1.19	<2.5	330	0.117	<0.2	349	<2.5	0.13	
GPPTP	11/11/2013	750	1.12	21.5	7.5	8.75	7.34	703	2.06	<0.10	516	0.12	<2.5	25	<0.05	<0.2	531	<2.5	0.23	
GPPTP	4/22/2014	270	<0.10	10.2	10	9.19	7.41	411.5	0.205	<0.050	150	0.85	<2.5	96	<0.05	<0.2	186	<2.5	3.6	
GPPTP	6/4/2014	455	<0.10	31	11.1	8.37	6.27	464.3	1.53	<0.10	248	1.61	<2.5	190	0.382	<0.2	279	<2.5	1.47	
GPPTP	7/24/2014	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	455	<2.5	0.43	
GPPTP	8/11/2014	602																		

Table 1		Dissolved Copper	Dissolved Lead	Dissolved Manganese	Dissolved Nickel	Dissolved Selenium	Dissolved Silver	Dissolved Zinc
Station Name	Collect Date	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Mine Drainage to WTP	9/25/2013	<1.0	<0.16	2.1	<1.0	2.2	<0.1	<2.5
Mine Drainage to WTP	10/23/2013	2.9	0.2	21	1.9	1.8	<0.1	5.1
Mine Drainage to WTP	11/7/2013	<1.0	<0.16	16.5	<1.0	1.8	<0.1	<2.5
Mine Drainage to WTP	12/10/2013	<1.0	<0.16	15	<1.0	1.8	<0.1	<2.5
Mine Drainage to WTP	1/6/2014	1.9	<0.16	192	<1.0	1.2	<0.1	4.3
Mine Drainage to WTP	2/10/2014	<1.0	<0.16	92	<1.0	1.6	<0.1	<2.5
Mine Drainage to WTP	3/13/2014	<1.0	<0.16	54.3	<1.0	1.7	<0.1	<2.5
Mine Drainage to WTP	4/9/2014	1.2	<0.16	71.1	<1.0	<1.0	<0.1	<2.5
Mine Drainage to WTP	5/19/2014	<1.0	<0.16	42.5	<1.0	1.5	<0.1	<2.5
Mine Drainage to WTP	6/9/2014	<1.0	<0.16	34.8	<1.0	1.9	<0.1	<2.5
Mine Drainage to WTP	7/24/2014	1.2	<0.16	44.9	2.5	1.5	<0.1	<2.5
Mine Drainage to WTP	8/7/2014	<1.0	<0.16	47.5	<1.0	2.3	<0.1	<2.5
Mine Drainage to WTP	9/3/2014	<1.0	<0.16	124	14.1	2.6	<0.1	8.3
Mine Drainage to WTP	10/23/2014	<1.0	<0.16	51.5	<1.0	2.4	<0.1	<2.5
Mine Drainage to WTP	11/6/2014	<1.0	<0.16	24	<1.0	2.1	<0.1	<2.5
Mine Drainage to WTP	12/3/2014	<1.0	<0.16	41.5	<1.0	2.5	<0.1	<2.5
Mine Drainage to WTP	1/15/2015	<1.0	<0.16	26.3	<1.0	2.2	<0.1	<2.5
Mine Drainage to WTP	2/11/2015	<1.0	<0.16	64.9	<1.0	2.3	<0.1	3.1
Mine Drainage to WTP	3/12/2015	<1.0	<0.16	50.7	<1.0	2.6	<0.1	<2.5
Mine Drainage to WTP	4/2/2015	<1.0	<0.16	107	<1.0	1.4	0.2	<2.5
Mine Drainage to WTP	5/19/2015	<1.0	<0.16	36.2	<1.0	1.7	<0.1	<2.5
Mine Drainage to WTP	6/8/2015	<1.0	<0.2	45	<1.0	2.8	<0.1	<2.5
Mine Drainage to WTP	7/7/2015	1.5	<0.16	43	1.1	2.5	<0.1	<2.5
Mine Drainage to WTP	8/10/2015	2	<0.16	79.6	2.4	2	0.39	<2.5
Mine Drainage to WTP	9/1/2015	<1.0	<0.16	26.2	<1.0	2.3	<0.1	2.6
Mine Drainage to WTP	10/13/2015	<1.0	<0.16	20.1	<1.0	2.2	<0.10	<2.5
Mine Drainage to WTP	11/10/2015	<1.0	<0.16	36.4	<1.0	2	<0.10	<2.5
Mine Drainage to WTP	12/14/2015	<1.0	<0.16	11.2	<1.0	2.2	<0.10	<2.5
Dam Seepage Sump	9/25/2013	4	<0.16	119	46.1	2.1	<0.1	447
Dam Seepage Sump	10/23/2013	7.3	<0.16	343	67.3	1.1	<0.1	740
Dam Seepage Sump	11/11/2013	4.6	<0.16	723	56.1	2.1	<0.1	281
Dam Seepage Sump	12/11/2013	3.2	<0.16	53.6	34.5	2.8	<0.1	312
Dam Seepage Sump	1/6/2014	3.6	<0.16	513	24.2	2.9	<0.1	107
Dam Seepage Sump	2/10/2014	3.1	<0.16	329	29.2	1.4	<0.1	204
Dam Seepage Sump	3/12/2014	3.5	<0.16	135	11.3	1.3	<0.1	54.6
Dam Seepage Sump	4/9/2014	1.9	<0.16	244	12.1	<1.0	<0.1	117
Dam Seepage Sump	5/19/2014	3.8	<0.16	161	22.5	1.7	<0.1	119
Dam Seepage Sump	6/9/2014	4.5	<0.16	421	63.7	1.3	<0.1	880
Dam Seepage Sump	7/24/2014	3	<0.16	279	26.7	1.3	<0.1	298
Dam Seepage Sump	8/7/2014	2.9	<0.16	236	25.1	1.1	<0.1	311
Dam Seepage Sump	9/3/2014	3.1	<0.16	309	25.3	1.4	<0.1	305
Dam Seepage Sump	10/23/2014	2.4	<0.16	185	18.4	<1.0	<0.1	199
Dam Seepage Sump	11/6/2014	1.7	<0.16	350	15.2	1.1	<0.1	167
Dam Seepage Sump	12/3/2014	1.7	<0.16	366	14.4	1.3	<0.1	164
Dam Seepage Sump	1/15/2015	1.3	<0.16	321	7.8	<1.0	<0.1	72.9
Dam Seepage Sump	2/11/2015	1.4	<0.16	558	11.2	<1.0	<0.1	122
Dam Seepage Sump	3/12/2015	1.3	<0.16	751	11.6	<1.0	<0.1	119
Dam Seepage Sump	4/2/2015	1.2	<0.16	680	11.1	<1.0	<0.1	124
Dam Seepage Sump	5/19/2015	2	<0.16	534	14.4	<1.0	<0.1	197
Dam Seepage Sump	6/8/2015	1.7	<0.16	770	19.7	1.5	<0.1	235
Dam Seepage Sump	7/7/2015	2	<0.16	586	22.8	1	<0.1	280
Dam Seepage Sump	8/10/2015	2	<0.16	388	21.2	1.4	<0.10	265
Dam Seepage Sump	9/1/2015	2.6	<0.16	295	18.9	1.6	<0.1	265
Dam Seepage Sump	10/13/2015	1.9	<0.16	214	9.4	<1.0	<0.10	75.3
Dam Seepage Sump	11/10/2015	2.2	<0.16	69.1	8.5	1	<0.10	88.6
Dam Seepage Sump	12/14/2015	1.7	<0.16	260	8.5	1.1	<0.10	110
GPPTP	9/30/2013	1.4	<0.16	808	5	2.9	<0.1	8
GPPTP	10/23/2013	1.4	<0.16	43.3	5.1	1.3	<0.1	3.8
GPPTP	11/11/2013	1.5	<0.16	187	9.9	1.7	<0.1	9.5
GPPTP	4/22/2014	2.1	<0.16	84.7	15.1	1.7	<0.1	189
GPPTP	6/4/2014	3.9	<0.16	57.2	11.1	1.1	<0.1	109
GPPTP	7/24/2014	3.2	<0.16	171	5.8	2.1	<0.1	24.4
GPPTP	8/11/2014	<1.0	<0.16	564	6.2	1.8	<0.1	5.8
GPPTP	9/18/2014	1.7	<0.16	6.4	<1.0	1.3	<0.1	<2.5
GPPTP	10/27/2014	2.5	<0.16	10	1.9	<1.0	<0.1	6.3
GPPTP	1/26/2015	1.5	<0.16	121	18.1	<1.0	<0.1	150
GPPTP	3/16/2015	1.1	<0.16	149	12.1	<1.0	<0.1	123
GPPTP	4/13/2015	1.6	<0.16	42.7	4.2	<1.0	<0.1	62
GPPTP	5/18/2015	2.2	<0.16	176	4.4	1.3	<0.1	21.4
GPPTP	6/4/2015	3	<0.16	147	5.1	1.1	<0.1	36.7
GPPTP	7/13/2015	3.1	<0.16	208	10.8	1.4	<0.1	51.6
GPPTP	8/17/2015	2.3	<0.16	58.6	5.4	<1.0	<0.10	80
GPPTP	9/1/2015	1.9	<0.16	73.3	21.5	1.8	<0.1	23.4
GPPTP	10/12/2015	6.6	<0.16	185	23.8	<1.0	<0.10	456
GPPTP	11/4/2015	2.8	<0.16	251	33	<1.0	<0.10	565
GPPTP	12/15/2015	3	<0.16	572	29.4	1.1	<0.1	211
GP Western Seep	9/30/2013	72.2	<0.16	6580	721	3.4	<0.1	17000
GP Eastern Seep	9/30/2013	158	0.91	1030	197	1.5	<0.1	1780
GP Western Seep	9/3/2014	12.7	<0.16	3340	391	1.5	<0.1	6570
GP Eastern Seep	9/3/2014	3.6	<0.16	221	42.8	<1.0	<0.1	213
GP Western Seep	9/1/2015	4.3	<0.16	1090	197	1.2	<0.1	2830
GP Eastern Seep	9/1/2015	208	0.53	1040	202	3.3	<0.1	1490
TTF Pond	9/25/2013	<1.0	<0.16	225	3.9	<1.0	<0.1	4.1
TTF Pond	10/23/2013	1.1	<0.16	187	3.7	<1.0	<0.1	2.6
TTF Pond	12/10/2013	1.1	<0.16	132	2.3	<1.0	<0.1	3.1
TTF Pond	1/6/2014	<1.0	<0.16	121	1.4	<1.0	<0.1	23.8
TTF Pond	2/10/2014	<1.0	<0.16	141	1.7	<1.0	<0.1	3.3
TTF Pond	3/12/2014	<1.0	<0.16	164	1.5	<1.0	<0.1	<2.5
TTF Pond	4/9/2014	<1.0	<0.16	187	1.3	<1.0	<0.1	<2.5
TTF Pond	5/19/2014	<1.0	<0.16	190	1.8	<1.0	<0.1	4.2
TTF Pond	6/9/2014	<1.0	<0.16	185	1.8	<1.0	<0.1	3.3
TTF Pond	7/24/2014	1.5	<0.16	108	2.7	<1.0	<0.1	4
TTF Pond	10/23/2014	<1.0	<0.16	255	1.7	<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	Hardness, Total	Dissolved Arsenic	Dissolved Cadmium
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	mg/L	ug/L	ug/L
TTF Pond	1/15/2015	531	1.77	5	1.8	9.02	7.34	467.6	4.78	<0.10	215	4.01	<2.5	185	0.308	<0.2	250	<2.5	<0.02
TTF Pond	4/2/2015	571	2.07	6	3.2	5.46	7.22	462.2	6.56	<0.10	298	4.15	<2.5	140	0.157	<0.2	318	<2.5	<0.02
TTF Pond	7/7/2015	630	1.74	6.1	19.6	8.5	7.54	781	7.27	<0.10	329	2.31	<2.5	68	0.079	<0.2	381	<2.5	0.02
TTF Pond	10/13/2015	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	393	<2.5	<0.020
ARD-SUMP	9/24/2013	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	1140	<2.5	86.4
ARD-SUMP	10/1/2013	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	948	<2.5	55.8
ARD-SUMP	10/8/2013	1670	3.92	5.8	7.5	9.06	7.02	1296	7.22	0.12	1010	133	<2.5	704	13	<0.2	1050	<2.5	25.5
ARD-SUMP	10/15/2013	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	1030	<2.5	24.4
ARD-SUMP	10/22/2013	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	1040	<2.5	21.7
ARD-SUMP	10/29/2013	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	815	<2.5	15.9
ARD-SUMP	11/5/2013	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	540	<2.5	16.2
ARD-SUMP	11/12/2013	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	1110	<2.5	17.8
ARD-SUMP	5/22/2014	1610	1	5	18.5	5.7	7.28	1320	0.12	<0.10	652	0.28	3	6500	19.5	<0.2	939	<2.5	3.54
ARD-SUMP	6/3/2014	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	478	<2.5	1.35
ARD-SUMP	6/10/2014	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	912	<2.5	2.97
ARD-SUMP	6/17/2014	461	0.28	2	10.9	9.06	7.22	514	0.43	<0.10	207	568	6.2	13400	38.9	<0.2	402	<2.5	0.71
ARD-SUMP	6/23/2014	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	689	<2.5	2.52
ARD-SUMP	7/1/2014	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	936	<2.5	1.97
ARD-SUMP	7/8/2014	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	864	<2.5	2.13
ARD-SUMP	7/15/2014	1550	0.65	3	22.2	4.96	7.2	1655	0.11	<0.10	777	87	<2.5	91	7	<0.2	1070	<2.5	2.9
ARD-SUMP	7/22/2014	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	924	<2.5	1.37
ARD-SUMP	7/29/2014	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	498	<2.5	0.64
ARD-SUMP	8/5/2014	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	813	<2.5	0.3
ARD-SUMP	8/12/2014	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	825	<2.5	0.72
ARD-SUMP	8/19/2014	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	892	<2.5	0.3
ARD-SUMP	8/26/2014	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	641	<2.5	0.37
ARD-SUMP	9/2/2014	1200	0.88	3.4	13	7.18	6.95	1154	<0.10	<0.10	565	618	<2.5	375	64.7	<0.2	821	<2.5	0.35
ARD-SUMP	9/9/2014	1380	0.99	3	11.6	7.56	7.08	1122	<0.10	<0.10	679	540	<2.5	322	59	<0.2	951	<2.5	0.24
ARD-SUMP	9/16/2014	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	554	<2.5	0.24
ARD-SUMP	9/23/2014	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	852	<2.5	0.4
ARD-SUMP	9/30/2014	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	518	<2.5	0.74
ARD-SUMP	10/7/2014	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	766	<2.5	0.62
ARD-SUMP	10/13/2014	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	724	<2.5	0.43
ARD-SUMP	10/21/2014	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	781	<2.5	0.3
ARD-SUMP	10/28/2014	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	755	<2.5	0.24
ARD-SUMP	11/4/2014	480	0.4	<2.0	2.4	11.22	7.45	196.1	<0.10	<0.10	231	685	3	6380	113	<0.2	412	<2.5	0.53
ARD-SUMP	11/11/2014	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	826	<2.5	0.25
ARD-SUMP	11/18/2014	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	805	<2.5	1.1
ARD-SUMP	12/16/2014	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	656	<2.5	1.03
ARD-SUMP	12/22/2014	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	733	<2.5	0.95
ARD-SUMP	3/31/2015	959	1.03	5.2	4.9	4	6.71	781	<0.10	<0.10	409	123	<2.5	79	32.7	<0.2	654	<2.5	0.55
ARD-SUMP	4/7/2015	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	705	<2.5	0.61
ARD-SUMP	4/13/2015	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	497	<2.5	0.82
ARD-SUMP	4/20/2015	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	578	<2.5	0.88
ARD-SUMP	4/27/2015	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	642	<2.5	0.64
ARD-SUMP	5/4/2015	1030	1.16	6.3	16	5.89	6.56	966	<0.10	<0.10	454	920	<2.5	396	79	<0.2	784	<2.5	0.37
ARD-SUMP	5/11/2015	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	648	<2.5	0.47
ARD-SUMP	5/18/2015	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	789	<2.5	0.29
ARD-SUMP	5/26/2015	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	840	<2.5	0.26
ARD-SUMP	6/1/2015	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	859	<2.5	0.13
ARD-SUMP	6/8/2015	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	695	<2.5	0.54
ARD-SUMP	6/15/2015	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	788	<2.5	0.07
ARD-SUMP	6/22/2015	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	727	<2.5	0.06
ARD-SUMP	6/29/2015	1090	0.45	3.3	15.6	7.58	6.95	1128	0.33	<0.10	595	285	<2.5	342	19	<0.2	811	<2.5	0.22
ARD-SUMP	7/6/2015	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	753	<2.5	0.05
ARD-SUMP	7/13/2015	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	386	<2.5	0.23
ARD-SUMP	7/20/2015	741	0.77	2.3	13	4.26	6.89	865	<0.10	<0.10	330	261	<2.5	140	17.1	<0.2	540	<2.5	0.22
ARD-SUMP	7/27/2015	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	363	<2.5	0.364
ARD-SUMP	8/3/2015	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	884	<2.5	0.12
ARD-SUMP	8/10/2015	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	818	<2.5	0.06
ARD-SUMP	8/17/2015	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	523	<2.5	0.269
ARD-SUMP	8/24/2015	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	844	<2.5	1.01
ARD-SUMP	8/31/2015	552	0.17	<2.0	10.3	9.55	7.05	642	<0.10	<0.10	253	89	<2.5	1010	6.52	<0.2	381	<2.5	0.57
ARD-SUMP	9/8/2015	1090	1.05	3.5	14.3	6.69	7.41	1136	<0.10	<0.10									

**Table 2 - Quarterly 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	Mine Sump Sediments	Mine Sump Sediments
	Collect Date/Time	9/25/2013	10/23/2013	1/6/2014	4/9/2014	7/24/2014	10/23/2014	1/20/2015	4/7/2015	7/7/2015	10/13/2015
Total Dissolved Solids	mg/L	60	172	53.3	61	49	31	53	33	45	35
Ammonia as N	mg/L	0.252	0.407	0.285	0.088	0.103	<0.050	0.255	0.076	<0.050	0.152
Nitrate as N	mg/L	<0.10	<0.10	<0.10	<0.10	0.12	<0.10	<0.10	0.14	<0.10	<0.10
pH lab	pH	8.83	11.22	10	9.55	9.18	9.15	8.96	8.91	8.92	8.39
Sulfate	mg/L	3.55	9.44	6.77	8.75	6.29	5.37	6.22	8.38	9.83	6.4
Hardness, Total	mg/L	34.2	146	25.5	26.7	25.6	27.6	27.8	27.7	31.3	30.9
Total Recoverable Aluminum	mg/L	0.68	2.79	0.83	0.81	0.29	0.26	0.28	0.27	0.24	0.33
Total Recoverable Arsenic	mg/L	<0.0025	<0.0025	0.0022	0.0017	0.0005	<0.001	0.0008	0.0006	0.0006	<0.001
Total Recoverable Cadmium	mg/L	<0.0001	<0.0001	<0.0002	<0.0002	<0.0002	<0.0002	0.00004	<0.0002	<0.0002	<0.00004
Total Chromium	mg/L	<0.001	0.006	0.0004	0.0004	<0.0002	<0.0012	<0.0002	<0.001	<0.0002	<0.0004
Total Recoverable Copper	mg/L	0.0041	0.005	0.002	0.002	0.0007	<0.001	<0.001	0.0006	<0.002	<0.0002
Total Recoverable Iron	mg/L	0.6	<0.1	0.18	0.58	0.09	0.06	0.1	0.02	<0.05	<0.02
Total Recoverable Lead	mg/L	0.0007	<0.0002	0.00019	0.00066	<0.0001	<0.0002	0.0001	<0.0001	<0.0001	0.00013
Total Recoverable Manganese	mg/L	0.016	<0.001	0.005	0.017	0.003	<0.001	0.003	<0.001	0.004	0.006
Mercury Total	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Recoverable Nickel	mg/L	<0.001	<0.001	0.0003	0.0003	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0004
Total Recoverable Selenium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002
Total Recoverable Silver	mg/L	<0.0001	<0.0001	0.00003	0.00003	<0.00002	<0.0001	<0.00002	<0.00005	<0.00002	<0.00004
Total Recoverable Zinc	mg/L	0.0042	<0.0025	0.0011	0.0039	<0.001	<0.002	<0.004	<0.002	<0.002	<0.004

Table 3

2013/2014/2015 Development Rock MWMP Results	TDS (mg/L)	pH	NH ₃ (mg/L)	Al (ug/L)	Ar (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 ₄ (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	81.00	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

2013/2014/2015 Development Rock ABA Results	<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>3.2.4</i>				<i>1.3.1</i>		<i>3.2.3</i>	<i>1.3.1</i>
	<i>Sulfate</i>	<i>Pyritic</i>	<i>Non-extractable</i>		<i>CaCO₃/1000t</i>		<i>CaCO₃/1000t</i>	<i>CaCO₃/1000t</i>
<i>wt%</i>	<i>wt%</i>	<i>wt%</i>	<i>wt%</i>	<i>wt%</i>	<i>wt%</i>	<i>wt%</i>	<i>wt%</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	

2013/2014/2015 Tails MWMP Results	TDS (mg/L)	pH	NH ₃ (mg/L)	Al (ug/L)	Ar (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 ₄ (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

2013/2014/2015 Tails ABA Results	<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>3.2.4</i>				<i>1.3.1</i>		<i>3.2.3</i>	<i>1.3.1</i>
	<i>Sulfate</i>	<i>Pyritic</i>	<i>Non-extractable</i>		<i>CaCO₃/1000t</i>		<i>CaCO₃/1000t</i>	<i>CaCO₃/1000t</i>
<i>wt%</i>	<i>wt%</i>	<i>wt%</i>	<i>wt%</i>	<i>wt%</i>	<i>wt%</i>	<i>wt%</i>	<i>wt%</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	

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	29

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	1485
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
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
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

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	
10/1/13 thru 10/31/13	14.31	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
5/1/15 thru 5/31/15	0.89	46.85	0
6/1/15 thru 6/30/15	6.36	46.85	0
7/1/15 thru 7/31/15	12	46.85	0
8/1/15 thru 8/31/15	12	46.85	0
9/1/15 thru 9/30/15	14	46.85	0
10/1/15 thru 10/31/15	12	0.00	0.00
11/1/15 thru 11/30/15	14	22.44	22.44
12/1/15 thru 12/31/15	5	64.17	41.73

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

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	1588.6
10/1/13 thru 10/31/13	1622.04
11/1/13 thru 11/30/13	1426.02
12/1/13 thru 12/31/13	991
1/1/14 thru 1/31/14	795.77
2/1/14 thru 2/28/14	857.28
3/1/14 thru 3/31/14	710.59
4/1/14 thru 4/30/14	596.86
5/1/14 thru 5/31/14	1293.97
6/1/14 thru 6/30/14	1442.78
7/1/14 thru 7/31/14	1520.63
8/1/14 thru 8/31/14	1280.89
9/1/14 thru 9/30/14	1330.26
10/1/14 thru 10/31/14	1401.38
11/1/14 thru 11/30/14	1138.14
12/1/14 thru 12/31/14	996.65
1/1/15 thru 1/31/15	999.46
2/1/15 thru 2/28/15	1112.97
3/1/15 thru 3/31/15	921.66
4/1/15 thru 4/30/15	908.07
5/1/15 thru 5/31/15	1193.93
6/1/15 thru 6/30/15	1093.91
7/1/15 thru 7/31/15	934.17
8/1/15 thru 8/31/15	1221.31
9/1/15 thru 9/30/15	1324.16
10/1/15 thru 10/31/15	1524.43
11/1/15 thru 11/30/15	1325.54
12/1/15 thru 12/31/15	1135.4