TABLE 1
ASPEN SEEP BIOREACTOR TREATMENT SYSTEM - COMPLIANCE SAMPLE RESULTS
MARCH 2017 MONTHLY SUMMARY
Draft - Provisional Data

Parameter	Basis	March 20, 2017 264ASPINF904 ASB Influent mg/L	March 20, 2017 264ASPEFF903 ASB Effluent mg/L	Maximum Discharge Criteria[2] (mg/L)	Average Discharge Criteria[2] (mg/L)
pH (s.u.)[1]	Field/Lab	2.72	6.84	-	6.0 - 9.0
Aluminum	Dissolved	34	0.15	4.0	2.0
Arsenic	Dissolved	0.00093 J	< 0.0010	0.34	0.15
Cadmium	Dissolved	0.0012	< 0.0010	0.009	0.004
Calcium	Dissolved	280	170	-	-
Chloride	Total	2.9	2.3	-	-
Chromium	Dissolved	0.0037	< 0.0020	0.97	0.31
Copper	Dissolved	0.57	0.0026	0.026	0.016
Hardness	Dissolved	950	580	-	-
Iron	Dissolved	90	**7.9**	2.0	1.0
Lead	Dissolved	< 0.0010	< 0.0010	0.136	0.005
Magnesium	Dissolved	62	38	-	-
Nickel	Dissolved	0.34	0.057	0.84	0.094
Phosphorous	Dissolved	< 0.20	< 0.20	-	-
Selenium	Total	0.0014 J	< 0.0020	NP	0.005
Sulfate	Total	1500	750	-	-
Zinc	Dissolved	0.47	0.048	0.21	0.21
Acidity	Total	460	< 2.0	-	-
Alkalinity (Bicarbonate)	Total	< 4.8	140	-	-
Alkalinity (Carbonate)	Total	< 2.4	< 2.4	-	-
Alkalinity (Hydroxide)	Total	< 1.4	< 1.4	-	-
Alkalinity (Total)	Total	< 4.0	110	-	-
Total Dissolved Solids	Total	2200	1300	-	-
Total Suspended Solids	Total	10	22		

Notes:
1. pH values are from Test America lab EDD and are reported in standard units
2. Discharge criteria and basis for maximum and average values are listed in the Request for Approval of Modifications to the Removal Action at the Leviathan Mine Memorandum (U.S. EPA, 2008)
3. Values in **Bold** are effluent concentrations greater than the maximum or average discharge criteria.

Abbreviations
< - Constituents that were not detected are listed as "<" and the reporting limit is shown.
J - Results noted with "J" are an estimated value or were less than th reporting limit but greater than or equal to the method detection limi
mg/L - milligrams per liter
NP - Not Promulgated
s.u. - standard unit