

Appendix B. Table 1. Pogo Mine Whole Effluent Toxicity (WET) Testing 2016.

Lab	Species	NOEC (%)	LOEC (%)	IC ₂₅ (%)	TU _c
CH2MHILL	<i>Ceriodaphnia dubia</i>	100	>100	>100	<1.00
	<i>Pimephales promelas</i>	100	>100	>100	<1.00
TRE	<i>Ceriodaphnia dubia</i>	100	>100	>100	<1.00
	<i>Pimephales promelas</i>	100	>100	>100	<1.00

Noec = No Observed Effect Concentration

LOEC = Low Observed Effect Concentration

IC₂₅ = Inhibition Concentration (25%)Tu_c = Toxic Units (Chronic)**Appendix B. Table 2. Whole Rock Geochemistry for Rock placed into Drystack 2016**

PC002 units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Antimony, Total mg/kg	3.11	1.3	1.85	9.39
Arsenic, Total mg/kg	649	346	325	2640
Carbon %	0.42	0.44	0.43	0.61
Copper, Total mg/kg	39.4	32.9	71.2	48.1
Inorganic Carbon %	1.5	1.60	1.6	2.20
Iron, Total mg/kg	41,900	45,100	53,300	40,500
Lead, Total mg/kg	22.2	17.3	19	40.3
Maximum Potential Acidity tCaCO ₃ /1000t	15.9	10.3	36.3	25
Net Neutralization Potential tCaCO ₃ /1000t	29	33	2	32
pH, Paste pH units	8.2	8.4	8.2	8.4
Potassium, Total mg/kg	22,000	25,100	23,600	27,000
Ratio (NP/MPA) su	2.82	4.17	1.05	2.28
Selenium, Total mg/kg	2	1.3	3	3
Sodium, Total mg/kg	4,000	8,900	8,600	5,500
Sulfate Sulfur (CO ₃ Leach) %	ND	0.01	ND	ND
Sulfate Sulfur (HCL Leach) %	0.02	0.03	0.01	0.03
Sulfide Sulfur (Calculated) %	0.51	0.32	1.16	0.8
Sulfur, Total (LECO) %	0.51	0.33	1.16	0.8
Zinc, Total mg/kg	90	83	98	5.7

Appendix B. Table 2. Geochemistry of Flotation Tailings Solids placed into Drystack 2016

PC003 Solid units	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Antimony, Total mg/kg	2.16	2.3	1.88	2.18
Arsenic, Total mg/kg	663	770	745	689
Carbon %	0.34	0.38	0.35	0.36
Copper, Total mg/kg	56.8	69.7	39	48.8
Inorganic Carbon %	1.25	1.40	1.30	1.3
Iron, Total mg/kg	20,300	19,000	21,800	19,000
Lead, Total mg/kg	9.95	14.6	7.3	11.9
Maximum Potential Acidity tCaCO ₃ /1000t	3.25	3.1	4.1	3.4
Net Neutralization Potential tCaCO ₃ /1000t	30.5	35	28	38
pH, Paste pH units	8.4	8.4	8.3	8.6
Potassium, Total mg/kg	17,350	19,600	17,500	16,700
Ratio (NP/MPA) su	10.23	12.16	7.88	11.93
Selenium, Total mg/kg	1	1	1	1
Sodium, Total mg/kg	3,050	3,200	2,900	4,000
Sulfate Sulfur (CO ₃ Leach) %	ND	0.05	0.05	0.01
Sulfate Sulfur (HCL Leach) %	0.04	0.02	0.04	0.02
Sulfide Sulfur (Calculated) %	0.105	0.05	0.08	0.1
Sulfur, Total (LECO) %	0.105	0.1	0.13	0.11
Zinc, Total mg/kg	21.5	32	22	5.9