

2016
Mine Permit Water Quality Monitoring Data
Contact Water Basins
Eagle Mine

		Q1 2016	Q2 2016
Parameter	Unit	2/22/2016	6/2/2016
Field			
pH	SU	11.2	7.4
Specific Conductivity	µS/cm	2870	1923
Metals			
Aluminum, Total	mg/L	—	—
Antimony, Total	µg/L	—	—
Arsenic, Total	µg/L	1.3	1.1
Barium, Total	µg/L	—	—
Beryllium, Total	µg/L	—	—
Boron, Total	µg/L	530	490
Cadmium, Total	µg/L	—	—
Chromium, Total	µg/L	—	—
Cobalt, Total	µg/L	—	—
Copper, Total	µg/L	17	42
Iron, Total	µg/L	100	730
Lead, Total	µg/L	—	—
Lithium, Total	µg/L	—	—
Manganese, Total	µg/L	6	27
Mercury, Total	µg/L	0.0009	0.0021
Molybdenum, Total	µg/L	—	—
Nickel, Total	µg/L	37	76
Selenium, Total	µg/L	8.9	7.5
Silver, Total	µg/L	—	—
Strontium, Total	µg/L	—	—
Thallium, Total	µg/L	—	—
Vanadium, Total	µg/L	—	—
Zinc, Total	µg/L	<10	<10
Major Anions			
Alkalinity, Bicarbonate	mg/L	64	33
Alkalinity, Carbonate	mg/L	<2.0	<2.0
Chloride	mg/L	370	170
Fluoride	µg/L	—	—
Nitrogen, Nitrite	mg/L	—	—
Nitrogen, Nitrate	mg/L	68	38
Sulfate	mg/L	530	570
Major Cations			
Calcium, Total	mg/L	—	—
Magnesium, Total	mg/L	—	—
Potassium, Total	µg/L	—	—
Sodium, Total	mg/L	430	260

— Analyte not included in the quarterly parameter list.

2016
Mine Permit Water Quality Monitoring Data
TDRSA Contact Water Sump
Eagle Mine

		Q1 2016	Q2 2016
Parameter	Unit	2/22/2016	6/2/2016
Field			
pH	SU	6.9	6.3
Specific Conductivity	µS/cm	6025	3107
Metals			
Aluminum, Total	mg/L	—	—
Antimony, Total	µg/L	—	—
Arsenic, Total	µg/L	<1.0	<1.0
Barium, Total	µg/L	—	—
Beryllium, Total	µg/L	—	—
Boron, Total	µg/L	1200	900
Cadmium, Total	µg/L	—	—
Chromium, Total	µg/L	—	—
Cobalt, Total	µg/L	—	—
Copper, Total	µg/L	<1.0	1.0
Iron, Total	µg/L	37	25
Lead, Total	µg/L	—	—
Lithium, Total	µg/L	—	—
Manganese, Total	µg/L	760	390
Mercury, Total	µg/L	0.0098	0.0063
Molybdenum, Total	µg/L	—	—
Nickel, Total	µg/L	200	140
Selenium, Total	µg/L	9.1	6.5
Silver, Total	µg/L	—	—
Strontium, Total	µg/L	—	—
Thallium, Total	µg/L	—	—
Vanadium, Total	µg/L	—	—
Zinc, Total	µg/L	<10	<10
Major Anions			
Alkalinity, Bicarbonate	mg/L	27	20
Alkalinity, Carbonate	mg/L	<2.0	<2.0
Chloride	mg/L	110	45
Fluoride	µg/L	—	—
Nitrogen, Ammonia	mg/L	51	13
Nitrogen, Nitrate	mg/L	440	190
Nitrogen, Nitrite	mg/L	9.7	2.7
Sulfate	mg/L	1700	1100
Major Cations			
Calcium, Total	mg/L	—	—
Magnesium, Total	mg/L	170	110
Potassium, Total	µg/L	—	—
Sodium, Total	mg/L	460	250

— Analyte not included in the quarterly parameter list.

2016
Mine Permit Water Quality Monitoring Data
TDRSA Leak Detection Sump
Eagle Mine

		Q1 2015	Q2 2015
Parameter	Unit	2/22/2016	6/2/2016
Field			
pH	SU	7.4	7.1
Specific Conductivity	μS/cm	2976	3133
Major Anions			
Chloride	mg/L	14	14
Nitrogen, Ammonia	mg/L	0.19	0.09
Nitrogen, Nitrate	mg/L	26.0	29.0
Nitrogen, Nitrite	mg/L	0.15	<0.05
Sulfate	mg/L	1000	980
Major Cations			
Magnesium, Total	mg/L	15	16
Sodium, Total	mg/L	610	610

2016
Mine Permit Water Quality Monitoring Data
Underground Influent
Eagle Mine

		Q1 2015	Q1 2015
Parameter	Unit	2/22/2016	6/2/2016
Field			
pH	SU	7.3	8.1
Specific Conductivity	µS/cm	1470	2445
Metals			
Aluminum, Total	mg/L	—	—
Antimony, Total	µg/L	—	—
Arsenic, Total	µg/L	7.6	17
Barium, Total	µg/L	—	—
Beryllium, Total	µg/L	—	—
Boron, Total	µg/L	560	660
Cadmium, Total	µg/L	—	—
Chromium, Total	µg/L	—	—
Cobalt, Total	µg/L	—	—
Copper, Total	µg/L	8700	22000
Iron, Total	µg/L	36000	120000
Lead, Total	µg/L	—	—
Lithium, Total	µg/L	—	—
Manganese, Total	µg/L	390	1400
Mercury, Total	µg/L	0.148	0.006
Molybdenum, Total	µg/L	—	—
Nickel, Total	µg/L	7200	23000
Selenium, Total	µg/L	13	25
Silver, Total	µg/L	—	—
Strontium, Total	µg/L	—	—
Thallium, Total	µg/L	—	—
Vanadium, Total	µg/L	—	—
Zinc, Total	µg/L	180	520
Major Anions			
Alkalinity, Bicarbonate	mg/L	<2	<2
Alkalinity, Carbonate	mg/L	150	69
Chloride	mg/L	250	540
Fluoride	µg/L	—	—
Nitrogen, Nitrate	mg/L	25	30
Nitrogen, Nitrite	mg/L	—	—
Sulfate	mg/L	250	430
Major Cations			
Calcium, Total	mg/L	—	—
Magnesium, Total	mg/L	—	—
Potassium, Total	µg/L	—	—
Sodium, Total	mg/L	—	—

— Analyte not included in the quarterly parameter list.