

Table 2
Mine Permit Surface Water Quality Monitoring Data 2016
Q4 STRM001 (Background)
Eagle Mine

Parameter	Unit	Permit RL	STRM001 Seasonal Benchmark	Q4 2016				
			Q4	Q4 2012	Q4 2013	Q4 2014	Q4 2015	Q4 2016
			Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain
				10/15/12	10/24/13	10/16/14	10/26/15	11/1/16
Field								
D.O.	ppm	--	--	7.5	8.7	6.3	8.4	6.7
Flow	cfs	--	--	NM	0.2	0.7	<0.1	0.4
pH	SU	--	6.0-7.0	6.3	6.8	6.3	6.8	6.3
Specific Conductance	µS/cm @ 25°C	--	--	41	34	33	48	46
Temperature	°C	--	--	5.6	5.2	8.4	8.4	7.9
Metals								
Aluminum	ug/L	50	--	--	--	--	--	--
Antimony	ug/L	2.0	--	--	--	--	--	--
Arsenic	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Barium	ug/L	10	--	--	--	--	--	--
Beryllium	Q4	1.0	--	--	--	--	--	--
Boron	ug/L	50	200	<50	<50	<50	<50	<50
Cadmium	ug/L	0.20	--	--	--	--	--	--
Chromium	ug/L	1.0	--	--	--	--	--	--
Cobalt	ug/L	10	40	<10	<10	<10	<10	<10
Copper	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Iron	ug/L	20	675	260	260	340	400	500
Lead	ug/L	1.0	--	--	--	--	--	--
Lithium	ug/L	10	--	--	--	--	--	--
Manganese	ug/L	10	40	14	14	16	31	30 e
Mercury	ng/L	0.500	2.00	1.07	<0.500	<0.500 e	1.34 e	0.912 a,e
Molybdenum	ug/L	10	--	--	--	--	--	--
Nickel	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Selenium	ug/L	2.0	8.0	<2.0	<2.0	<2.0	<2.0	<2.0
Silver	ug/L	0.20	--	--	--	--	--	--
Zinc	ug/L	10	40	<10	<10	<10	<10	<10
Major Anions								
Alkalinity, Bicarbonate	mg/L	2.0	--	--	--	--	--	--
Alkalinity, Carbonate	mg/L	2.0	--	--	--	--	--	--
Chloride	mg/L	1.0	--	--	--	--	--	--
Fluoride	mg/L	0.10	--	--	--	--	--	--
Nitrogen, Nitrate	mg/L	0.050	--	--	--	--	--	--
Sulfate	mg/L	1.0	4.0	<1.0	<1.0	<1.0	1.4	<1.0
Major Cations								
Calcium	mg/L	0.50	--	--	--	--	--	--
Magnesium	mg/L	0.50	--	--	--	--	--	--
Potassium	mg/L	0.50	--	--	--	--	--	--
Sodium	mg/L	0.50	--	--	--	--	--	--
General								
Hardness	mg/L	3	--	--	--	--	--	--
TDS	mg/L	50	200	<50	<50 e	<50 e	102 e	<100 e

Explanations of abbreviations are included on the final page of this table.

Q4 STRM001 (Background)

Table 2
Mine Permit Surface Water Quality Monitoring Data 2016
Q4 STRM002 (Compliance)
Eagle Mine

Parameter	Unit	Permit RL	STRM002 Seasonal Benchmark	Q4 2016				
			Q4	Q4 2012	Q4 2013	Q4 2014	Q4 2015	Q4 2016
			Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain
				10/15/12	10/22/13	10/16/14	10/26/15	11/1/16
Field								
D.O.	ppm	--	--	11	12	11	11	9.9
Flow	cfs	--	--	2.0	2.3	2.3	1.6	1.9
pH	SU	--	6.5-7.5	6.9	6.4	6.8	7.3	7.1
Specific Conductance	µS/cm @ 25°C	--	--	63	48	48	65	61
Temperature	°C	--	--	5.2	4.2	7.8	5.0	6.8
Metals								
Aluminum	ug/L	50	--	--	--	--	--	--
Antimony	ug/L	2.0	--	--	--	--	--	--
Arsenic	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Barium	ug/L	10	--	--	--	--	--	--
Beryllium	ug/L	1.0	--	--	--	--	--	--
Boron	ug/L	50	200	<50	<50	<50	<50	<50
Cadmium	ug/L	0.20	--	--	--	--	--	--
Chromium	ug/L	1.0	--	--	--	--	--	--
Cobalt	ug/L	10	40	<10	<10	<10	<10	<10
Copper	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Iron	ug/L	20	504	200	250	390	170	240
Lead	ug/L	1.0	--	--	--	--	--	--
Lithium	ug/L	10	--	--	--	--	--	--
Manganese	ug/L	10	40	<10	<10	<10	<10	12 e
Mercury	ng/L	0.500	2.79	1.35	1.20	1.33 e	1.06 e	1.30 a,e
Molybdenum	ug/L	10	--	--	--	--	--	--
Nickel	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Selenium	ug/L	2.0	8.0	<2.0	<2.0	<2.0	<2.0	<2.0
Silver	ug/L	0.20	--	--	--	--	--	--
Zinc	ug/L	10	40	<10	<10	<10	<10	<10
Major Anions								
Alkalinity, Bicarbonate	mg/L	2.0	--	--	--	--	--	--
Alkalinity, Carbonate	mg/L	2.0	--	--	--	--	--	--
Chloride	mg/L	1.0	--	--	--	--	--	--
Fluoride	mg/L	0.10	--	--	--	--	--	--
Nitrogen, Nitrate	mg/L	0.050	--	--	--	--	--	--
Sulfate	mg/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Major Cations								
Calcium	mg/L	0.50	--	--	--	--	--	--
Magnesium	mg/L	0.50	--	--	--	--	--	--
Potassium	mg/L	0.50	--	--	--	--	--	--
Sodium	mg/L	0.50	--	--	--	--	--	--
General								
Hardness	mg/L	3	--	--	--	--	--	--
TDS	mg/L	50	200	<50	54 e	<100 e	58 e	<100 e

Table 2
Mine Permit Surface Water Quality Monitoring Data 2016
Q4 STRM004 (Compliance)
Eagle Mine

Parameter	Unit	Permit RL	STRM004 Seasonal Benchmark	Q4 2016				
			Q4	Q4 2012	Q4 2013	Q4 2014	Q4 2015	Q4 2016
			Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain
				10/15/12	10/22/13	10/20/14	10/27/15	10/31/16
Field								
D.O.	ppm	--	--	NM	12	12	12	12
Flow	cfs	--	--	7.3	5.8	8.5	4.3	6.2
pH	SU	--	7.2-8.2	NM	7.6	7.5	7.8	7.5
Specific Conductance	µS/cm @ 25°C	--	--	98	80	77	93	95
Temperature	°C	--	--	5.9	4.8	7.0	6.7	6.2
Metals								
Aluminum	ug/L	50	--	--	--	--	--	--
Antimony	ug/L	2.0	--	--	--	--	--	--
Arsenic	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Barium	ug/L	10	--	--	--	--	--	--
Beryllium	ug/L	1.0	--	--	--	--	--	--
Boron	ug/L	50	200	<50	<50	<50	<50	<50
Cadmium	ug/L	0.20	--	--	--	--	--	--
Chromium	ug/L	1.0	--	--	--	--	--	--
Cobalt	ug/L	10	40	<10	<10	<10	<10	<10
Copper	ug/L	1.0	4.0	1.2 _s	<1.0	<1.0	<1.0	<1.0
Iron	ug/L	20	406	210	190	290	110	160
Lead	ug/L	1.0	--	--	--	--	--	--
Lithium	ug/L	10	--	--	--	--	--	--
Manganese	ug/L	10	40	12	12	13	<10	<10 _e
Mercury	ng/L	0.500	2.91	1.55	1.45	1.36 _e	1.07 _e	1.37 _{a,e}
Molybdenum	ug/L	10	--	--	--	--	--	--
Nickel	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Selenium	ug/L	2.0	8.0	<2.0	<2.0	<2.0	<2.0	<2.0
Silver	ug/L	0.20	--	--	--	--	--	--
Zinc	ug/L	10	40	<10	<10	<10	<10	<10
Major Anions								
Alkalinity, Bicarbonate	mg/L	2.0	--	--	--	--	--	--
Alkalinity, Carbonate	mg/L	2.0	--	--	--	--	--	--
Chloride	mg/L	1.0	--	--	--	--	--	--
Fluoride	mg/L	0.10	--	--	--	--	--	--
Nitrogen, Nitrate	mg/L	0.050	--	--	--	--	--	--
Sulfate	mg/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Major Cations								
Calcium	mg/L	0.50	--	--	--	--	--	--
Magnesium	mg/L	0.50	--	--	--	--	--	--
Potassium	mg/L	0.50	--	--	--	--	--	--
Sodium	mg/L	0.50	--	--	--	--	--	--
General								
Hardness	mg/L	3	--	--	--	--	--	--
TDS	mg/L	50	200	68	62 _e	70 _e	54 _e	80 _e

Explanations of abbreviations are included on the final page of this table.

Q4 STRM004 (Compliance)

Table 2
Mine Permit Surface Water Quality Monitoring Data 2016
Q4 STRM005 (Compliance)
Eagle Mine

Parameter	Unit	Permit RL	STRM005 Seasonal Benchmark	Q4 2016				
			Q4	Q4 2012	Q4 2013	Q4 2014	Q4 2015	Q4 2016
			Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain
				10/15/12	10/23/13	10/15/14	10/26/15	11/1/16
Field								
D.O.	ppm	--	--	12	13	11	12	11
Flow	cfs	--	--	37	35	74	29	49
pH	SU	--	7.2-8.2	6.9	7.7	7.5	7.8	7.7
Specific Conductance	µS/cm @ 25°C	--	--	128	108	90	127	117
Temperature	°C	--	--	6.6	4.6	7.6	4.6	8.2
Metals								
Aluminum	ug/L	50	--	--	--	--	--	--
Antimony	ug/L	2.0	--	--	--	--	--	--
Arsenic	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Barium	ug/L	10	--	--	--	--	--	--
Beryllium	ug/L	1.0	--	--	--	--	--	--
Boron	ug/L	50	200	<50	<50	<50	<50	<50
Cadmium	ug/L	0.20	--	--	--	--	--	--
Chromium	ug/L	1.0	--	--	--	--	--	--
Cobalt	ug/L	10	40	<10	<10	<10	<10	<10
Copper	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Iron	ug/L	20	309	130	190	300	120	220
Lead	ug/L	1.0	--	--	--	--	--	--
Lithium	ug/L	10	--	--	--	--	--	--
Manganese	ug/L	10	40	<10	11	16	13	11 e
Mercury	ng/L	0.500	2.46	1.12	0.942	1.63 e	0.981 e	2.77 a,e
Molybdenum	ug/L	10	--	--	--	--	--	--
Nickel	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Selenium	ug/L	2.0	8.0	<2.0	<2.0	<2.0	<2.0	<2.0
Silver	ug/L	0.20	--	--	--	--	--	--
Zinc	ug/L	10	40	<10	<10	<10	10	<10
Major Anions								
Alkalinity, Bicarbonate	mg/L	2.0	--	--	--	--	--	--
Alkalinity, Carbonate	mg/L	2.0	--	--	--	--	--	--
Chloride	mg/L	1.0	--	--	--	--	--	--
Fluoride	mg/L	0.10	--	--	--	--	--	--
Nitrogen, Nitrate	mg/L	0.050	--	--	--	--	--	--
Sulfate	mg/L	1.0	4.0	<1.0	<1.0	<1.0	2.2	<1.0
Major Cations								
Calcium	mg/L	0.50	--	--	--	--	--	--
Magnesium	mg/L	0.50	--	--	--	--	--	--
Potassium	mg/L	0.50	--	--	--	--	--	--
Sodium	mg/L	0.50	--	--	--	--	--	--
General								
Hardness	mg/L	3	--	--	--	--	--	--
TDS	mg/L	50	200	94	56 e	74 e	112 e	94 e

Explanations of abbreviations are included on the final page of this table.

Q4 STRM005 (Compliance)

Table 2
Mine Permit Surface Water Quality Monitoring Data 2016
Q4 STRE001 (Compliance)
Eagle Mine

Parameter	Unit	Permit RL	STRE001 Seasonal Benchmark	Q4 2016				
			Q4	Q4 2012	Q4 2013	Q4 2014	Q4 2015	Q4 2016
			Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain
				10/15/12	10/22/13	10/15/14	10/28/15	11/2/16
Field								
D.O.	ppm	--	--	11	12	9.9	<0.1	12
Flow	cfs	--	--	14	13	NM	19	14
pH	SU	--	7.2-8.2	7.5	7.7	7.1	7.7	7.8
Specific Conductance	µS/cm @ 25°C	--	--	130	111	106	121	126
Temperature	°C	--	--	8.7	5.6	7.4	7.3	6.1
Metals								
Aluminum	ug/L	50	--	--	--	--	--	--
Antimony	ug/L	2.0	--	--	--	--	--	--
Arsenic	ug/L	1.0	4.0	<1.0	<1.0	<1.0	1.1	<1.0
Barium	ug/L	10	--	--	--	--	--	--
Beryllium	ug/L	1.0	--	--	--	--	--	--
Boron	ug/L	50	200	<50	<50	<50	<50	<50
Cadmium	ug/L	0.20	--	--	--	--	--	--
Chromium	ug/L	1.0	--	--	--	--	--	--
Cobalt	ug/L	10	40	<10	<10	<10	<10	<10
Copper	ug/L	1.0	4.0	<1.0	<1.0	<1.0	1.2	<1.0
Iron	ug/L	20	160	63	79	260	360	110
Lead	ug/L	1.0	--	--	--	--	--	--
Lithium	ug/L	10	--	--	--	--	--	--
Manganese	ug/L	10	94	<10	10	11	34	12 e
Mercury	ng/L	0.500	2.24	0.707	0.648	1.46 e	2.10 e	6.02 a,e
Molybdenum	ug/L	10	--	--	--	--	--	--
Nickel	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Selenium	ug/L	2.0	8.0	<2.0	<2.0	<2.0	<2.0	<2.0
Silver	ug/L	0.20	--	--	--	--	--	--
Zinc	ug/L	10	40	<10	<10	<10	<10	<10
Major Anions								
Alkalinity, Bicarbonate	mg/L	2.0	--	--	--	--	--	--
Alkalinity, Carbonate	mg/L	2.0	--	--	--	--	--	--
Chloride	mg/L	1.0	--	--	--	--	--	--
Fluoride	mg/L	0.10	--	--	--	--	--	--
Nitrogen, Nitrate	mg/L	0.050	--	--	--	--	--	--
Sulfate	mg/L	1.0	4.0	1.4	<1.0	<1.0	1.3	<1.0
Major Cations								
Calcium	mg/L	0.50	--	--	--	--	--	--
Magnesium	mg/L	0.50	--	--	--	--	--	--
Potassium	mg/L	0.50	--	--	--	--	--	--
Sodium	mg/L	0.50	--	--	--	--	--	--
General								
Hardness	mg/L	3	--	--	--	--	--	--
TDS	mg/L	50	200	90	70 e	82 e	106 e	68 e

Explanations of abbreviations are included on the final page of this table.

Q4 STRE001 (Compliance)

Table 2
Mine Permit Surface Water Quality Monitoring Data 2016
Q4 STRE002 (Compliance)
Eagle Mine

Parameter	Unit	Permit RL	STRE002 Seasonal Benchmark	Q4 2016				
			Q4	Q4 2012	Q4 2013	Q4 2014	Q4 2015	Q4 2016
			Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain
				10/15/12	10/24/13	10/20/14	10/28/15	11/2/16
Field								
D.O.	ppm	--	--	11	12	11	11	12
Flow	cfs	--	--	20	11	26	20	17
pH	SU	--	7.2-8.2	7.5	7.6	7.3	7.8	7.9
Specific Conductance	µS/cm @ 25°C	--	--	128	112	99	125	127
Temperature	°C	--	--	6.2	4.1	6.6	6.9	5.5
Metals								
Aluminum	ug/L	50	--	--	--	--	--	--
Antimony	ug/L	2.0	--	--	--	--	--	--
Arsenic	ug/L	1.0	4.0	<1.0	1.2	<1.0	1.1	<1.0
Barium	ug/L	10	--	--	--	--	--	--
Beryllium	ug/L	1.0	--	--	--	--	--	--
Boron	ug/L	50	200	<50	<50	<50	<50	<50
Cadmium	ug/L	0.20	--	--	--	--	--	--
Chromium	ug/L	1.0	--	--	--	--	--	--
Cobalt	ug/L	10	40	<10	<10	<10	<10	<10
Copper	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Iron	ug/L	20	182	140	110	160	130	87
Lead	ug/L	1.0	--	--	--	--	--	--
Lithium	ug/L	10	--	--	--	--	--	--
Manganese	ug/L	10	40	<10	12	<10	15	<10 e
Mercury	ng/L	0.500	2.04	1.18	0.782	1.46 e	1.56 e	1.43 a,e
Molybdenum	ug/L	10	--	--	--	--	--	--
Nickel	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Selenium	ug/L	2.0	8.0	<2.0	<2.0	<2.0	<2.0	<2.0
Silver	ug/L	0.20	--	--	--	--	--	--
Zinc	ug/L	10	40	<10	<10	<10	<10	<10
Major Anions								
Alkalinity, Bicarbonate	mg/L	2.0	--	--	--	--	--	--
Alkalinity, Carbonate	mg/L	2.0	--	--	--	--	--	--
Chloride	mg/L	1.0	--	--	--	--	--	--
Fluoride	mg/L	0.10	--	--	--	--	--	--
Nitrogen, Nitrate	mg/L	0.050	--	--	--	--	--	--
Sulfate	mg/L	1.0	4.0	<1.0	<1.0	<1.0	3.4	<1.0
Major Cations								
Calcium	mg/L	0.50	--	--	--	--	--	--
Magnesium	mg/L	0.50	--	--	--	--	--	--
Potassium	mg/L	0.50	--	--	--	--	--	--
Sodium	mg/L	0.50	--	--	--	--	--	--
General								
Hardness	mg/L	3	--	--	--	--	--	--
TDS	mg/L	50	200	84	74 e	98 e	98 e	80 e

Explanations of abbreviations are included on the final page of this table.

Q4 STRE002 (Compliance)

Table 2
Mine Permit Surface Water Quality Monitoring Data 2016
Q4 STRE005 (Compliance)
Eagle Mine

Parameter	Unit	Permit RL	STRE005 Seasonal Benchmark	Q4 2016				
			Q4	Q4 2012	Q4 2013	Q4 2014	Q4 2015	Q4 2016
			Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain
				10/15/12	10/22/13	10/15/14	10/27/15	10/31/16
Field								
D.O.	ppm	--	--	11	12	11	11	11
Flow	cfs	--	--	1.0	0.7	1.8	0.1	0.8
pH	SU	--	7.0-8.0	7.3	7.5	7.4	7.7	7.5
Specific Conductance	µS/cm @ 25°C	--	--	118	100	98	107	110
Temperature	°C	--	--	6.4	5.3	8.0	6.7	6.7
Metals								
Aluminum	ug/L	50	--	--	--	--	--	--
Antimony	ug/L	2.0	--	--	--	--	--	--
Arsenic	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Barium	ug/L	10	--	--	--	--	--	--
Beryllium	ug/L	1.0	--	--	--	--	--	--
Boron	ug/L	50	200	<50	<50	<50	<50	<50
Cadmium	ug/L	0.20	--	--	--	--	--	--
Chromium	ug/L	1.0	--	--	--	--	--	--
Cobalt	ug/L	10	40	<10	<10	<10	<10	<10
Copper	ug/L	1.0	4.0	1.1 s	<1.0	<1.0	<1.0	<1.0
Iron	ug/L	20	259	210	170	180	120	160
Lead	ug/L	1.0	--	--	--	--	--	--
Lithium	ug/L	10	--	--	--	--	--	--
Manganese	ug/L	10	40	18	13	10	<10	21 e
Mercury	ng/L	0.500	2.00	1.41	0.952	1.15 e	1.37 e	3.48 a,e
Molybdenum	ug/L	10	--	--	--	--	--	--
Nickel	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Selenium	ug/L	2.0	8.0	<2.0	<2.0	<2.0	<2.0	<2.0
Silver	ug/L	0.20	--	--	--	--	--	--
Zinc	ug/L	10	40	<10	<10	<10	<10	<10
Major Anions								
Alkalinity, Bicarbonate	mg/L	2.0	--	--	--	--	--	--
Alkalinity, Carbonate	mg/L	2.0	--	--	--	--	--	--
Chloride	mg/L	1.0	--	--	--	--	--	--
Fluoride	mg/L	0.10	--	--	--	--	--	--
Nitrogen, Nitrate	mg/L	0.050	--	--	--	--	--	--
Sulfate	mg/L	1.0	6.4	6.2	<1.0	<1.0	6.3	<1.0
Major Cations								
Calcium	mg/L	0.50	--	--	--	--	--	--
Magnesium	mg/L	0.50	--	--	--	--	--	--
Potassium	mg/L	0.50	--	--	--	--	--	--
Sodium	mg/L	0.50	--	--	--	--	--	--
General								
Hardness	mg/L	3	--	--	--	--	--	--
TDS	mg/L	50	200	68	80 e	74 e	80 e	98 e

Explanations of abbreviations are included on the final page of this table.

Q4 STRE005 (Compliance)

Table 2
Mine Permit Surface Water Quality Monitoring Data 2016
Q4 STRE009 (Compliance)
Eagle Mine

Parameter	Unit	Permit RL	STRE009 Seasonal Benchmark	Q4 2016				
			Q4	Q4 2012	Q4 2013	Q4 2014	Q4 2015	Q4 2016
			Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain
				10/15/12	10/22/13	10/15/14	10/27/15	10/31/16
Field								
D.O.	ppm	--	--	11	12	11	12	12
Flow	cfs	--	--	4.0	3.6	4.7	3.4	4.6
pH	SU	--	6.8-7.8	7.2	7.0	7.6	7.7	7.6
Specific Conductance	µS/cm @ 25°C	--	--	115	99	110	110	114
Temperature	°C	--	--	8.1	4.7	7.6	5.7	6.1
Metals								
Aluminum	ug/L	50	--	--	--	--	--	--
Antimony	ug/L	2.0	--	--	--	--	--	--
Arsenic	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Barium	ug/L	10	--	--	--	--	--	--
Beryllium	ug/L	1.0	--	--	--	--	--	--
Boron	ug/L	50	200	<50	<50	<50	<50	<50
Cadmium	ug/L	0.20	--	--	--	--	--	--
Chromium	ug/L	1.0	--	--	--	--	--	--
Cobalt	ug/L	10	40	<10	<10	<10	<10	<10
Copper	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Iron	ug/L	20	114	51	63	89	98	64
Lead	ug/L	1.0	--	--	--	--	--	--
Lithium	ug/L	10	--	--	--	--	--	--
Manganese	ug/L	10	40	<10	<10	<10	<10	<10 e
Mercury	ng/L	0.500	2.00	0.586	<0.500	0.775 e	1.14 e	0.709 a,e
Molybdenum	ug/L	10	--	--	--	--	--	--
Nickel	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Selenium	ug/L	2.0	8.0	<2.0	<2.0	<2.0	<2.0	<2.0
Silver	ug/L	0.20	--	--	--	--	--	--
Zinc	ug/L	10	40	<10	<10	<10	<10	<10
Major Anions								
Alkalinity, Bicarbonate	mg/L	2.0	--	--	--	--	--	--
Alkalinity, Carbonate	mg/L	2.0	--	--	--	--	--	--
Chloride	mg/L	1.0	--	--	--	--	--	--
Fluoride	mg/L	0.10	--	--	--	--	--	--
Nitrogen, Nitrate	mg/L	0.050	--	--	--	--	--	--
Sulfate	mg/L	1.0	10	2.6	<1.0	<1.0	6.5	<1.0
Major Cations								
Calcium	mg/L	0.50	--	--	--	--	--	--
Magnesium	mg/L	0.50	--	--	--	--	--	--
Potassium	mg/L	0.50	--	--	--	--	--	--
Sodium	mg/L	0.50	--	--	--	--	--	--
General								
Hardness	mg/L	3	--	--	--	--	--	--
TDS	mg/L	50	200	82	72 e	72 e	68 e	80 e

Explanations of abbreviations are included on the final page of this table.

Q4 STRE009 (Compliance)

Table 2
Mine Permit Surface Water Quality Monitoring Data 2016
Q4 STRE010 (Compliance)
Eagle Mine

Parameter	Unit	Permit RL	STRE010 Seasonal Benchmark	Q4 2016				
			Q4	Q4 2012	Q4 2013	Q4 2014	Q4 2015	Q4 2016
			Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain
				10/15/12	10/22/13	10/15/14	10/27/15	11/1/16
Field								
D.O.	ppm	--	--	11	12	11	12	11
Flow	cfs	--	--	4.0	2.7	3.6	2.6	3.3
pH	SU	--	7.0-8.0	7.2	7.5	7.5	7.8	7.7
Specific Conductance	µS/cm @ 25°C	--	--	115	102	93	104	114
Temperature	°C	--	--	8.1	5.6	7.5	6.6	6.5
Metals								
Aluminum	ug/L	50	--	--	--	--	--	--
Antimony	ug/L	2.0	--	--	--	--	--	--
Arsenic	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Barium	ug/L	10	--	--	--	--	--	--
Beryllium	ug/L	1.0	--	--	--	--	--	--
Boron	ug/L	50	200	<50	<50	<50	<50	<50
Cadmium	ug/L	0.20	--	--	--	--	--	--
Chromium	ug/L	1.0	--	--	--	--	--	--
Cobalt	ug/L	10	40	<10	<10	<10	<10	<10
Copper	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Iron	ug/L	20	97	51	60	90	45	69
Lead	ug/L	1.0	--	--	--	--	--	--
Lithium	ug/L	10	--	--	--	--	--	--
Manganese	ug/L	10	40	<10	<10	<10	31	<10 e
Mercury	ng/L	0.500	2.00	0.586	0.542	0.769 e	0.709 e	0.934 a,e
Molybdenum	ug/L	10	--	--	--	--	--	--
Nickel	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Selenium	ug/L	2.0	8.0	<2.0	<2.0	<2.0	<2.0	<2.0
Silver	ug/L	0.20	--	--	--	--	--	--
Zinc	ug/L	10	40	<10	<10	<10	<10	<10
Major Anions								
Alkalinity, Bicarbonate	mg/L	2.0	--	--	--	--	--	--
Alkalinity, Carbonate	mg/L	2.0	--	--	--	--	--	--
Chloride	mg/L	1.0	--	--	--	--	--	--
Fluoride	mg/L	0.10	--	--	--	--	--	--
Nitrogen, Nitrate	mg/L	0.050	--	--	--	--	--	--
Sulfate	mg/L	1.0	4.0	2.6	<1.0	<1.0	1.0	<1.0
Major Cations								
Calcium	mg/L	0.50	--	--	--	--	--	--
Magnesium	mg/L	0.50	--	--	--	--	--	--
Potassium	mg/L	0.50	--	--	--	--	--	--
Sodium	mg/L	0.50	--	--	--	--	--	--
General								
Hardness	mg/L	3	--	--	--	--	--	--
TDS	mg/L	50	200	82	72 e	78 e	72 e	76 e

Explanations of abbreviations are included on the final page of this table.

Q4 STRE010 (Compliance)

Table 2
Mine Permit Surface Water Quality Monitoring Data 2016
Q4 YDRM002 (Compliance)
Eagle Mine

Parameter	Unit	Permit RL	YDRM002 Seasonal Benchmark	Q4 2016				
			Q4	Q4 2012	Q4 2013	Q4 2014	Q4 2015	Q4 2016
			Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain
				10/15/12	10/22/13	10/16/14	10/26/15	11/1/16
Field								
D.O.	ppm	--	--	11	11	10	11	10
Flow	cfs	--	--	2.9	21	38	12	23
pH	SU	--	6.6-7.6	7.5	5.2	6.6	7.5	6.9
Specific Conductance	µS/cm @ 25°C	--	--	120	51	43	79	48
Temperature	°C	--	--	6.8	4.3	7.4	5.2	7.3
Metals								
Aluminum	ug/L	50	--	--	--	--	--	--
Antimony	ug/L	2.0	--	--	--	--	--	--
Arsenic	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Barium	ug/L	10	--	--	--	--	--	--
Beryllium	ug/L	1.0	--	--	--	--	--	--
Boron	ug/L	50	200	<50	<50	<50	<50	<50
Cadmium	ug/L	0.20	--	--	--	--	--	--
Chromium	ug/L	1.0	--	--	--	--	--	--
Cobalt	ug/L	10	40	<10	<10	<10	<10	<10
Copper	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Iron	ug/L	20	1,207	59	930	760	580	940
Lead	ug/L	1.0	--	--	--	--	--	--
Lithium	ug/L	10	--	--	--	--	--	--
Manganese	ug/L	10	40	<10	35	27	21	35 e
Mercury	ng/L	0.500	6.02	0.624	2.69	2.25 e	1.54 e	3.43 a,e
Molybdenum	ug/L	10	--	--	--	--	--	--
Nickel	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Selenium	ug/L	2.0	8.0	<2.0	<2.0	<2.0	<2.0	<2.0
Silver	ug/L	0.20	--	--	--	--	--	--
Zinc	ug/L	10	40	<10	<10	<10	<10	<10
Major Anions								
Alkalinity, Bicarbonate	mg/L	2.0	--	--	--	--	--	--
Alkalinity, Carbonate	mg/L	2.0	--	--	--	--	--	--
Chloride	mg/L	1.0	--	--	--	--	--	--
Fluoride	mg/L	0.10	--	--	--	--	--	--
Nitrogen, Nitrate	mg/L	0.050	--	--	--	--	--	--
Sulfate	mg/L	1.0	24	<1.0	<1.0	<1.0	5.5	<1.0
Major Cations								
Calcium	mg/L	0.50	--	--	--	--	--	--
Magnesium	mg/L	0.50	--	--	--	--	--	--
Potassium	mg/L	0.50	--	--	--	--	--	--
Sodium	mg/L	0.50	--	--	--	--	--	--
General								
Hardness	mg/L	3	--	--	--	--	--	--
TDS	mg/L	50	200	72	64 e	<100 e	112 e	<100 e

Explanations of abbreviations are included on the final page of this table.

Q4 YDRM002 (Compliance)

Table 2
Mine Permit Surface Water Quality Monitoring Data 2016
Q4 CDRM004 (Reference)
Eagle Mine

Parameter	Unit	Permit RL	CDRM004 Seasonal Benchmark	Q4 2016				
			Q4	Q4 2012	Q4 2013	Q4 2014	Q4 2015	Q4 2016
			Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain	Fall Rain
				10/15/12	10/23/13	10/20/14	10/28/15	11/2/16
Field								
D.O.	ppm	--	--	11	13	12	11	12
Flow	cfs	--	--	15	15	25	14	14
pH	SU	--	7.2-8.2	7.4	7.5	7.6	7.8	7.7
Specific Conductance	µS/cm @ 25°C	--	--	133	114	96	130	125
Temperature	°C	--	--	7.2	4.1	6.8	6.8	5.3
Metals								
Aluminum	ug/L	50	--	--	--	--	--	--
Antimony	ug/L	2.0	--	--	--	--	--	--
Arsenic	ug/L	1.0	4.0	1.5	1.6	1.0	1.8	1.3
Barium	ug/L	10	--	--	--	--	--	--
Beryllium	ug/L	1.0	--	--	--	--	--	--
Boron	ug/L	50	200	<50	<50	<50	<50	<50
Cadmium	ug/L	0.20	--	--	--	--	--	--
Chromium	ug/L	1.0	--	--	--	--	--	--
Cobalt	ug/L	10	40	<10	<10	<10	<10	<10
Copper	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Iron	ug/L	20	195	180	130	180	140	170
Lead	ug/L	1.0	--	--	--	--	--	--
Lithium	ug/L	10	--	--	--	--	--	--
Manganese	ug/L	10	96	20	19	12	20	15 e
Mercury	ng/L	0.500	2.00	1.27	0.802	1.15 e	1.23 e	2.06 a,e
Molybdenum	ug/L	10	--	--	--	--	--	--
Nickel	ug/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Selenium	ug/L	2.0	8.0	<2.0	<2.0	<2.0	<2.0	<2.0
Silver	ug/L	0.20	--	--	--	--	--	--
Zinc	ug/L	10	40	<10	<10	<10	<10	<10
Major Anions								
Alkalinity, Bicarbonate	mg/L	2.0	--	--	--	--	--	--
Alkalinity, Carbonate	mg/L	2.0	--	--	--	--	--	--
Chloride	mg/L	1.0	--	--	--	--	--	--
Fluoride	mg/L	0.10	--	--	--	--	--	--
Nitrogen, Nitrate	mg/L	0.050	--	--	--	--	--	--
Sulfate	mg/L	1.0	4.0	<1.0	<1.0	<1.0	<1.0	<1.0
Major Cations								
Calcium	mg/L	0.50	--	--	--	--	--	--
Magnesium	mg/L	0.50	--	--	--	--	--	--
Potassium	mg/L	0.50	--	--	--	--	--	--
Sodium	mg/L	0.50	--	--	--	--	--	--
General								
Hardness	mg/L	3	--	--	--	--	--	--
TDS	mg/L	50	200	96	70 e	88 e	100 e	76 e

Explanations of abbreviations are included on the final page of this table.

Q4 CDRM004 (Reference)

Table 2
Mine Permit Surface Water Quality Monitoring Data
Footnote Explanation
Eagle Project

Footnote	Explanation
a	Estimated value. Duplicate precision for this parameter exceeded quality control limit.
b	Estimated value. Sample received after EPA established hold time expired.
e	Estimated value. The laboratory statement of data qualifications indicates that a quality control limit for this parameter was exceeded.
NM	Not measured.
p	Pending. Some parameters/locations require additional baseline data to calculate a benchmark.
Q	Quarter.
R	Measured value was rejected based on quality control procedures.
RL	Laboratory reporting limit.
s	Potential false positive value. Compound present in blank sample.
t	Trending. Benchmarks are not proposed for baseline datasets that appear to be trending because the data do not represent a random distribution about the baseline mean. Trend analysis is recommended in place of benchmark screening for parameters that appear to be trending.
Note:	Date shown is the date analytical samples were collected. Flow measurements may have been made on a different day.
	Value is equal to or above site-specific benchmark at a compliance monitoring location. An exceedance occurs when a value is equal to or greater than the benchmark for 2 consecutive seasons.
	Value is equal to or above the site-specific benchmark at the background (STRM001) or reference (CDRM004) monitoring location.
Q1	First quarter.
Q2	Second quarter.
Q3	Third quarter.
Q4	Fourth quarter.