AMARUQ PROJECT

Quarrying Management Plan for KVCA15Q01 and Whale Tail and Haul Road Type B Water Licence Application

Prepared by:

Agnico Eagle Mines Limited, Exploration Division

Document Control

Version	Date (YMD)	By	Section	Page	Revision
	May 2015	DF			Document creation
	November 2015	DF			Complete revision
	January 2017		Sections 3, 4, 6 New Table 1 New Figure 2 New Appendix B		Amended for Type B Water Licence Application for Whale Tail Pit and Haul Road

Table of content

1. Location

Agnico Eagle Mines Limited (Agnico Eagle) signed an exploration agreement with Nunavut Tunngavik Inc. in January 2013 for the Amaruq (IVR) property. This property is located approximately 50 km northwest of the Meadowbank Mine and 125 km north of the Baker Lake community. The mineral exploration seeks gold mineral deposits. Drilling on this property began during the summer 2013 with helicopter support. Agnico Eagle started the installation of an exploration camp during the summer 2014 and continued the construction and upgrade of the camp during 2015. A commercial lease with the Kivalliq Inuit Association has been obtained by Agnico Eagle and includes the camp area.

This management plan describes the use of the borrow pit #7, Quarry 1 and Quarry 2 that is exploited for gravel requirements. The gravel is used to construct gravel pads for the camp area, gravel roads between the camp and the esker, small gravel exploration roads for the drilling and an airstrip. All identified gravel material comes from the borrow pits and not from existing watercourses; no rock and gravel will be gathered from below the high water mark of any watercourse, nor will any borrow pit operate within 31 metres of a water body. The quarry permits will be approved by the Kivalliq Inuit Association. Fees are paid monthly to the Kivalliq Inuit Association for each cubic metre of material used, and an accurate record of the volume used is kept.

2. Contact

Agnico Eagle Mines Ltd.

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3. Land Use Authorization

This quarry management plan describes the proposed activities for the Amaruq Gold Project under the quarrying permits KVCA15Q01.. The activities described in this management plan are authorized by various authorizing agencies. The Nunavut Impact Review Board in the decision 11EN010 and the Nunavut Water Board in the water licence 2BE-MEA1318 have emitted conditions regarding exploitation in the proposed borrow pit #7 and Quarry 1. The pre-development activities at Quarry 2 are in support of this Nunavut Water Board Type B Application. These borrow pits are located on Inuit Owned Land and administered by the Kivalliq Inuit Association.

4. Site Description

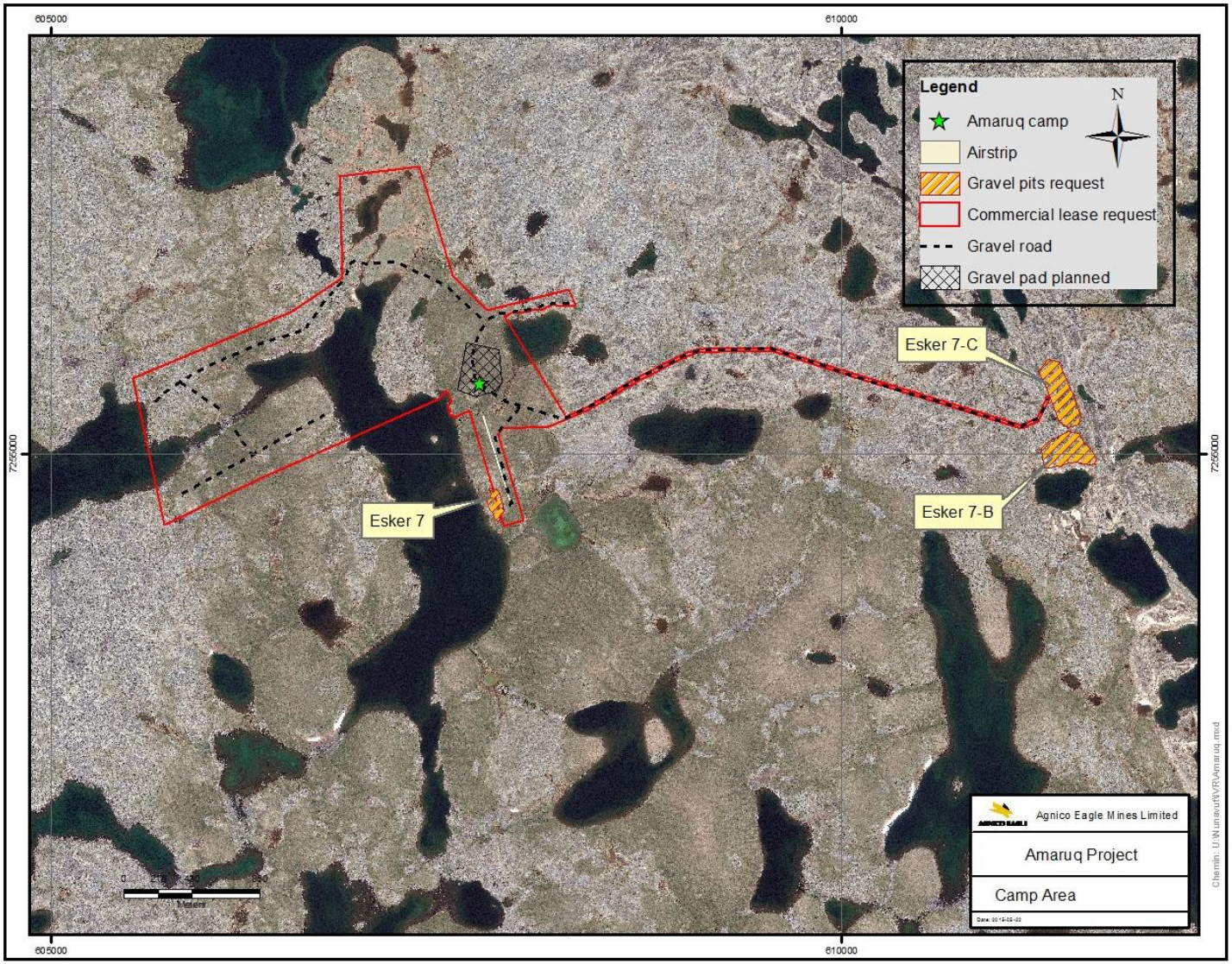
Figure 1 shows the gravel deposits located in the esker #7 that is located in the area of the Amaruq exploration project. The area used for the borrow pits will be around 1 hectare for the esker 7 and Quarry 1. The eskers 7-B and 7-C are not planned to be used in the short term. When the exploitation is completed, the reclaimed borrow pits will have gently sloping walls and positive drainage wherever possible. With prudent initial design, the borrow pits should require little reclamation.

Figure 2 shows the location of Quarry 2, located west of Whale Tail Lake within the Amaruq exploration project site. Most of the waste rock excavated from Quarry 2 will be used for the construction of the water management structures, the infrastructures pads, and the access roads (Table 1) during pre-development activities under the Type B Application. In the event that the Type A Amendment Application (Agnico Eagle 2016f) is not approved, closure and reclamation of Quarry 2 have been planned for and securities have been accounted for in the Closure, Reclamation Strategy and Security Estimate provided in Appendix G of the Whale Tail Pit and Haul Road Type B Main Application Supporting Documents. If the Type A Amendment Application is approved, Quarry 2 will be renamed Whale Tail Pit and managed under the Mine Waste Rock and Tailings Management Addendum submitted in support of the Type A Amendment Application (Agnico Eagle 2016f).

Table 1, Projected Waste Rock Tonnages Used for Construction from Quarry 2 during pre-development activities.

Period	Waste Rock and Overburden Excavated (t)	Waste Rock Used for Pad Construction (t)	Waste Rock Used for Road Construction (t)	Waste Rock Used for Water Management Structures (t)	Waste Rock and Overburden Stored in Whale Tail WRSF (t)
June to Sept.	1 011 755	356 435	103 658	512 900	38 762
Q4	1 887 917	150 949	1 364	192 082	1 543 522
Total	**2 899 672**	**507 384**	**105 022**	**704 982**	**1 582 284**

Figure 1, Borrow pit areas



Overburden

There is almost no overburden present in these gravel deposits. At many locations, the gravel is exposed without any overburden. The estimated thickness of the overburden varies between 0 and 2 cm depending on the area. The volume of overburden that will be stockpiled during the exploitation will be very low to absent, since it is very difficult to remove only the overburden without mixing it with the gravel due to its small layer. Please see attachment for the closure and reclamation plan proposed for this borrow pit.

Overburden in Quarry 2 (Whale Tail Pit) area is expected to be similar to that of the Meadowbank Mine. At the Meadowbank Mine, overburden consists of glacial till having an average thickness of 2.75 m, with local deposits over 10 m thick. The glacial till varies from silty sand to gravel with minor boulders. In a previous report, overburden is described as silty to sand-sized with 25 to 50% pebble to boulder-sized particles. These data have been confirmed during the construction of the Meadowbank Mine from 2008 to 2010. Where sampled at Whale Tail Pit (in July), the overburden was frozen below 1 m depth, and samples were collected in the surficial unfrozen zone only. Information of the geochemical composition of Quarry 2 (Whale Tail Pit) can be found Section 6 of this document and in the FEIS Amendment Volume 5, Appendix 5-E (Agnico Eagle 2016f).

Proximity of water bodies

The lakes located near the proposed borrow area must be protected against any possible sedimentation coming from the borrow pit. The buffer requested by the Nunavut Impact Review Board and by the Nunavut Water Board are the following:

<u>Water Licence 2BE-MEA1318, amendment 2</u>

Item 9

The Licensee shall maintain a minimum of thirty one (31) metres large undisturbed buffer zone between the periphery of quarry sites and the high water mark of any water body. The Licensee shall not excavate and/or remove material from the quarry beyond a depth of one (1) metre above the high water mark or above the groundwater table, to prevent the contamination of groundwater. The quarrying shall be in accordance with all

Y:\burnaby\CAD-GIS\Client\Agnico_Eagle_Mines_Ltd\Whale_Tail\99_PROJECTS\1658927_5000_5010_FIG_1.3_PRE_DEVELOPMENT_GENERAL_SITE_LAYOUT.mxd

604000 606000 608000

7256000 7254000

N

A10 A39 A41 A42 A11 A12 A-P52 A13 A14 A15 A16 A-P31 A-P57 A-P3 A-P39 A-P17 A-P16 A43 A-P45 A45 A64 A63 A18 A62 A17 A59 A60 A61 A58 A55 A54 A53 A52 A51 A50 A49 A48 A47 A46 A-P67 A-P68 A-P10 A-P5 A-P21 A-P47 A-P59 C-P37 C-P2 C-P1 C38 C39 C40 C41 C42 C43 C44 C46 C48 C49 C50 A40 A-P18 A-P51 A-P33 A-P37 A-P38 A-P49 A113

NEMO FRESHWATER INTAKE

NEMO LAKE

MAMMOTH LAKE

WHALE TAIL LAKE (NORTH BASIN)

WHALE TAIL LAKE (SOUTH BASIN)

WASTE ROCK BERM

OVERBURDEN

WRSF PILE DURING CONSTRUCTION (2018)

WRSF POND

WRSF DIKE

MAMMOTH CHANNEL TEMPORARY BRIDGE

MAMMOTH DIKE

MAMMOTH LAKE DIFFUSER

CONSTRUCTION WATER TREATMENT PLANT

QUARRY 1

QUARRY 2

CONSTRUCTION MATERIAL AND ORE STOCKPILE

OVERBURDEN STORAGE

WHALE TAIL DIKE

WHALE TAIL EAST CHANNEL

TURBIDITY CURTAIN

WATER TREATMENT PLANT

EXPLORATION CAMP

COMMUNICATION TOWER

WHALE TAIL BULK FUEL STORAGE FACILITY

HAUL ROAD

HAZARDOUS MATERIAL STORAGE AREA

MAINTENANCE FACILITY AND WAREHOUSE

WHALE TAIL CAMP

WHALE TAIL DIKE MATERIAL STORAGE

ARCHAEOLOGICAL SITE 2015 - 14

181 182 183 184

LEGEND

- BRIDGE
- ROAD
- TEMPORARY ROAD
- COLLECTION CHANNEL
- CULVERT
- FRESHWATER PIPE
- TURBIDITY CURTAIN
- DIKE
- OVERBURDEN
- FINAL WASTE ROCK STORAGE FACILITY FOOTPRINT
- QUARRY
- STORM WATER STORAGE POND
- NATURAL WATERSHED
- POND/SUMP
- ARCHAEOLOGICAL SITE
- WATERBODY
- WATERCOURSE

DRAFT

REFERENCE

1. INFRASTRUCTURE OBTAINED FROM AGNICO EAGLE MINES LIMITED FROM 6108-600-210-001_R2(2018)s.dwg.
2. WATERCOURSE AND WATERBODY DATA OBTAINED FROM PHOTOSAT
DATUM: NAD 83 CSRS PROJECTION: UTM ZONE 14

400 0 400
METRES

PROJECT
AGNICO EAGLE

AGNICO EAGLE MINES LIMITED:
MEADOWBANK DIVISION
WHALE TAIL PIT PROJECT

TITLE

PRE-DEVELOPMENT GENERAL SITE LAYOUT FOR TYPE B WATER LICENSE APPLICATION

Golder Associates

PROJECT		1658927	FILE No.	
DESIGN	JR	29 May 2017	SCALE AS SHOWN	REV. A
GIS	CDB	29 May 2017		
CHECK				
REVIEW				

FIGURE 1.3

applicable legislation and industry standards including the *Northern Land Use Guidelines, Pits and Quarries* (INAC, 2010).

Nunavut Impact Review Board, new conditions 11EN010

69. The Proponent shall maintain an undisturbed buffer zone between the periphery of quarry sites and the high water mark of any water body that is of an adequate distance to ensure erosion control.

Access required

The road needed to access the borrow pits from the Amaruq camp is located within the perimeter of the commercial lease entitled by the Kivalliq Inuit Association KVCL314C01 and has a length of approximately 1 kilometre from the esker #7.

The road needed to access Quarry 2 from the Amaruq camp is also located within the perimeter of the commercial lease entitled by the Kivalliq Inuit Association KVCL314C01 and will be constructed during pre-development activities proposed in this Type B Application (see figure 2).

5.**Best Management Practices**

Best management practices will employ the following general mitigation measures for the borrow pits:

- Minimize the surface area of borrow pits;
- Locate borrow pits in well drained areas;
- Maintain the floor of the borrow pits slightly above the elevation of the surrounding area to promote natural drainage patterns, to avoid creating ponds, and to prevent permafrost degradation in borrow pits;
- Prevent erosion and sedimentation through appropriate control measures such as silt fences;
- Carry out ARD/ML testing and water quality monitoring in support of mitigation measures;
- Protect archeological resources;

- Use progressive reclamation for closing borrow pits that are no longer needed.

6.**Acid Rock Drainage and Metal Leaching**

Geochemical testing will be carried out to assess the chemical composition of the potential building material, its potential to generate acid rock drainage (ARD), and its potential to leach metals into the receiving environment upon exposure to ambient conditions. Sampling and testing prior to use of any borrow pit significantly reduces the risk of ARD/ML. Avoiding the use of undesirable or questionable building materials ranks this mitigation measure as highly desirable. Initial testing of borrow pit materials at Esker #7 was completed in 2015.

A chemical characterization program investigating the geo-environmental properties of waste-rock and ore at Quarry 1 and Quarry 2 (was included with the Type A Amendment Application (FEIS Amendment volume 5, Appendix 5-E [Agnico Eagle 2016f]) and determined that the Whale Tail deposit (intermediate intrusive, southern greywacke waste rock and mafic volcanic rock away from the greywacke and ultramafic units) being considered for use as infrastructure construction material on the mine site are non PAG and leach relatively low levels of arsenic. These materials appear suitable for use in construction based on testing completed as part of the study. As a precaution, monitoring will continue to evaluate the sulphur content of the south greywacke waste rock and Agnico Eagle will avoid rock that contains more than 0.1 wt% sulphur. Mafic volcanic rock proximal to the ultramafic and greywacke contacts will also be avoided.

The shallow overburden is non PAG based on the low sulphide sulphur content. The arsenic content is low, and its leachable arsenic content is below CCME aquatic life in laboratory tests. This material has a suitable chemistry for use as construction materials; however, the fines portion of the samples could be amenable to erosion and transport as suspended solids in contact water. This, along with the chemistry and leachability of deep overburden, will be monitored prior to its use where it would be exposed to runoff.

Additional measures are being used while the quarries and borrow pits are operational. Additional testing for acid rock drainage/metal leaching will be conducted during the gravel exploitation. For the first 10,000 m^3 of material removed from a borrow pit or rock

quarry, 3 samples will be collected for static testing (ARD/ML). The total number of samples required drops off once the tonnage exceeds 10,000 tonnes. Table 2 below indicates the number of samples to be collected in each quarry and borrow pit.

The additional testing will confirm that the best available gravel materials are being used.

Table 2, Suggested initial sampling frequency based on tonnage

Tonnage of Unit (metric tonnes)	Minimum number of samples
<10,000	3
<100,000	8
<1,000,000	26
<10,000,000	80

Analysis data are available in Appendix A and B.

7. **Management of Water Originating from Borrow Pits**

While ARD/ML testing is a measure to avoid using questionable building materials, water quality monitoring of seeps from borrow pits provides information on possible impacts on the environment, should the water reach any nearby water bodies. A buffer of at least 31 m of undisturbed land is maintained between borrow pits and water bodies, and best management practices will prevent direct drainage. Although erosion is not expected to originate from water flow from the borrow pits, any evidence of erosion will be repaired by placing rip rap over the affected area, and measures will be taken to reduce the velocity of the water with, for example, silt curtains and/or small dikes.

8. **Management of Archaeological Resources at Borrow Pits**

Agnico Eagle has carried out an archaeological assessment of the area around Amaruq camp and no concerns were raised following the assessment on the Commercial lease area (including esker #7, Quarry 1 and Quarry 2). It is Agnico Eagle's intent to avoid archaeological resources in constructing the infrastructures wherever possible; this is the preferred mitigation measure. The goal is to protect archaeological sites identified at any borrow pit or on the access roads. However, if any identified site cannot realistically be avoided, Agnico Eagle will apply for a Culture and Heritage permit to

mitigate the site(s). If any potential archaeological site is identified during the operation of any borrow pit, work will stop, a professional archaeologist will be consulted, and Culture and Heritage will be informed of the discovery.

10. Ground Ice and Permafrost Protection

The selected borrow pit sites are on well drained esker deposits. All eskers have positive topography rising above the local setting. These types of granular deposits were selected because they are largely free of ground ice, thereby minimizing possible thaw settlement, which can result in erosion, slumping of side slopes, and an altered landscape that extends beyond the borrow pit. Should permafrost degradation become evident, the area will be monitored and, if necessary, stabilized by covering the affected land with 1.0 to 1.5 m of granular material. This reclamation effort would allow the permafrost to move up into the material covering the area and stop any further permafrost degradation or prevent further melting of any ground ice. Inspections of borrow pits will continue after their closure at the end of construction. Any significant seeps originating from the borrow pits as a result of ground ice, permafrost melting, or from precipitation events will be monitored if the water is likely to reach receiving waters.

APPENDIX A

Metal leaching and acid generation potential

Gravel Analysis data 2015

Esker #7

		Certificates #	V-46773	V-46774	V-46775	V-48568	V-48569
		Sample names	1	2	3	Esk1	Esk2
		Sample dates	2015-07-19	2015-07-19	2015-07-19	2015-10-04	2015-10-04
Parameter		Limit CMME	**Results**				
Leaching (SFE)							
Aluminium (Al)	mg/L		0.15	0.31	0.35	<0.006	<0.006
Antimony (Sb)	mg/L		<0.0001	<0.0001	<0.0001	0.0002	0.0117
Silver (Ag)	mg/L	0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Arsenic (As)	mg/L	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Barium (Ba)	mg/L		0.0009	0.0017	0.0016	<0.0005	0.0043
Beryllium (Be)	mg/L		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Bismuth (Bi)	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Boron (leaching)	mg/L	1.5	0.07	0.14	0.17	<0.01	<0.01
Cadmium (Cd)	mg/L	0.00009	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Calcium (Ca)	mg/L		0.03	<0.03	<0.03	<0.03	1.54
Chrome (Cr)	mg/L		<0.0006	<0.0006	<0.0006	0.0266	<0.0006
Cobalt (Co)	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Copper (Cu)	mg/L	0.002	0.0016	0.0010	0.0007	0.0040	0.0010
Tin (Sn)	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Iron (Fe)	mg/L	0.3	0.26	0.46	0.47	0.16	0.13
Lithium (Li)	mg/L		<0.005	<0.005	<0.005	<0.005	<0.005
Magnesium (Mg)	mg/L		0.17	0.12	0.10	0.20	0.47
Manganese (Mn)	mg/L		0.0062	0.01	0.01	0.0051	0.0347
Mercury (Hg)	mg/L	0.000026	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Molybdenum (Mo)	mg/L		<0.0005	0.0046	<0.0005	0.0006	<0.0005
Nickel (Ni)	mg/L	0.025	0.0011	0.0027	0.0008	0.0141	0.0019
Lead (Pb)	mg/L	0.001	<0.0005	0.0021	<0.0005	<0.0005	<0.0005
Potassium (K)	mg/L		0.44	0.43	0.41	1.13	0.99
Selenium (Se)	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sodium (Na)	mg/L		0.50	0.57	0.54	0.71	8.55
Tellurium (Te)	mg/L		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Thallium (Tl)	mg/L	0.0008	<0.005	<0.005	<0.005	<0.005	<0.005
Titanium (Ti)	mg/L		<0.01	0.01	0.01	<0.01	<0.01
Uranium (leaching)	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium (V)	mg/L		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Zinc (Zn)	mg/L	MMER (0,5)	0.01	0.04	<0.001	0.004	0.001
Acid generating potential - MABA							
ANC/PAS Ratio			22.11	12.98	28.16	2.63	7.43
- Acide neutralizing capacity (ANC)	Kg CaCO3/Tonne		8.84	0.81	2.46	2.74	0.97
- Acidity potential (AP)	Kg CaCO3/Tonne		0.40	0.06	0.09	1.04	0.13
- Net neutralization potential (NNP)	Kg CaCO3/Tonne		8.44	0.75	2.38	1.70	0.84
- Sulfate %	%S		0.01	0.01	<0.01	<0.01	<0.01
- Total Sulfur	%S		0.02	0.01	0.01	<0.03	<0.01
- pH			6.68	5.48	5.58	7.14	6.70

APPENDIX B

Metal leaching and acid generation potential

Whole Rock Analysis Results 2016

Quarry #2

Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample type		Distance to Ore	WR											
		From	To						SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5
									%	%	%	%	%	%	%	%	%	%	%	%
AMQ-ENV15-116	-	0	1.0	-	Overburden	Waste	Grab	-	70	13	3.8	0.93	1.4	3.1	3.6	0.45	0.11	0.05	< 0.01	< 0.01
AMQ-ENV15-130	-	0	1.0	-	Overburden	Waste	Grab	-	66	13	4.8	1.5	1.2	2.3	3.6	0.42	0.13	0.06	0.06	< 0.01
AMQ-ENV15-131	-	0	1.0	-	Overburden	Waste	Grab	-	74	12	3.1	1.2	1.2	2.4	3.5	0.38	0.1	0.03	0.02	< 0.01
AMQ-ENV15-132	-	0	1.0	-	Overburden	Waste	Grab	-	74	12	2.9	1.1	1.1	2.8	3.6	0.36	0.09	0.07	0.02	< 0.01
AMQ-ENV15-117	-	0	1.0	-	Overburden	Waste	Grab	-	68	12	5.4	1.7	2.1	2.9	3.2	0.65	0.18	0.08	0.02	0.01
AMQ-ENV15-118	-	0	1.0	-	Overburden	Waste	Grab	-	65	11	5.8	5.0	2.9	2.1	2.9	0.53	0.18	0.11	0.08	< 0.01
AMQ-ENV15-119	-	0	1.0	-	Overburden	Waste	Grab	-	73	11	4.0	1.9	1.5	2.4	3.1	0.43	0.15	0.04	0.07	< 0.01
AMQ-ENV15-125	-	0	1.0	-	Overburden	Waste	Grab	-	71	12	3.7	1.2	1.2	2.7	4.0	0.37	0.11	0.05	0.04	0.01
AMQ-ENV15-126	-	0	1.0	-	Overburden	Waste	Grab	-	73	12	3.5	1.2	1.3	2.7	3.7	0.39	0.12	0.05	0.06	< 0.01
AMQ-ENV15-127	-	0	1.0	-	Overburden	Waste	Grab	-	74	12	3.4	0.96	1.2	2.8	3.8	0.4	0.1	0.04	0.04	< 0.01
AMQ-ENV15-128	-	0	1.0	-	Overburden	Waste	Grab	-	73	12	3.2	1.4	1.4	2.9	3.8	0.33	0.1	0.03	0.06	< 0.01
AMQ-ENV15-129	-	0	1.0	-	Overburden	Waste	Grab	-	71	12	3.9	1.3	1.3	2.6	3.6	0.37	0.11	0.05	0.05	< 0.01
								Minimum	*65*	*11*	*2.9*	*0.93*	*1.1*	*2.1*	*2.9*	*0.33*	*0.09*	*0.03*	*< 0.01*	*< 0.01*
								Maximum	*74*	*13*	*5.8*	*5.0*	*2.9*	*3.1*	*4.0*	*0.65*	*0.18*	*0.11*	*0.08*	*0.01*
								Median	*72*	*12*	*3.7*	*1.2*	*1.3*	*2.7*	*3.6*	*0.4*	*0.11*	*0.05*	*0.045*	*0.01*
								Average	*71*	*12*	*4.0*	*1.6*	*1.5*	*2.6*	*3.5*	*0.42*	*0.12*	*0.055*	*0.044*	*0.010*
								Std. Deviation	*3.2*	*0.59*	*0.92*	*1.1*	*0.53*	*0.28*	*0.32*	*0.088*	*0.031*	*0.023*	*0.023*	*1.8E-18*
								75th Percentile	*73*	*12*	*4.2*	*1.5*	*1.4*	*2.8*	*3.7*	*0.44*	*0.14*	*0.063*	*0.06*	*0.01*
WTN-1	-	0	0.1	-	Lake Sediment	Waste	Grab	-	48	8.5	19	1.6	0.66	1.0	1.9	0.31	0.7	0.15	0.02	< 0.01
WTN-2	-	0	0.1	-	Lake Sediment	Waste	Grab	-	55	9.9	11	1.9	0.78	1.2	2.3	0.36	0.46	0.18	0.04	< 0.01
WTN-3	-	0	0.1	-	Lake Sediment	Waste	Grab	-	57	11	8.9	2.1	0.85	1.3	2.5	0.4	0.48	0.06	0.03	< 0.01
WTN-4	-	0	0.1	-	Lake Sediment	Waste	Grab	-	55	10	11	2.0	0.78	1.2	2.3	0.36	0.49	0.1	0.03	< 0.01
WTN-5	-	0	0.1	-	Lake Sediment	Waste	Grab	-	51	9.4	15	1.8	0.71	1.1	2.1	0.34	0.59	0.13	0.03	< 0.01
								Minimum	*48*	*8.5*	*8.9*	*1.6*	*0.66*	*1.0*	*1.9*	*0.31*	*0.46*	*0.06*	*0.02*	*< 0.01*
								Maximum	*57*	*11*	*19*	*2.1*	*0.85*	*1.3*	*2.5*	*0.4*	*0.7*	*0.18*	*0.04*	*< 0.01*
								Median	*55*	*9.9*	*11*	*1.9*	*0.78*	*1.2*	*2.3*	*0.36*	*0.49*	*0.13*	*0.03*	*nc*
								Average	*53*	*9.7*	*13*	*1.9*	*0.76*	*1.2*	*2.2*	*0.35*	*0.54*	*0.12*	*0.03*	*nc*
								Std. Deviation	*3.7*	*0.88*	*4.1*	*0.17*	*0.073*	*0.13*	*0.2*	*0.033*	*0.1*	*0.046*	*0.0071*	*nc*
								75th Percentile	*55*	*10*	*15*	*2.0*	*0.78*	*1.2*	*2.3*	*0.36*	*0.59*	*0.15*	*0.03*	*nc*

Notes:

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Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample type		Distance to Ore			ICP								
		From	To						LOI	Sum	Fluoride	Mercury	Aluminum	Silver	Arsenic	Barium	Beryllium	Bismuth	Boron
									%	%	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
AMQ-ENV15-116	-	0	1.0	-	Overburden	Waste	Grab	-	4.3	100	75	< 0.05	7000	< 0.01	**5.4**	27	0.28	**0.13**	< 1
AMQ-ENV15-130	-	0	1.0	-	Overburden	Waste	Grab	-	6.8	100	100	< 0.05	14000	0.06	**6.8**	96	1.0	**0.43**	3.0
AMQ-ENV15-131	-	0	1.0	-	Overburden	Waste	Grab	-	2.6	100	100	< 0.05	6900	0.01	**3.1**	45	0.4	**0.2**	1.0
AMQ-ENV15-132	-	0	1.0	-	Overburden	Waste	Grab	-	1.7	99	95	< 0.05	5400	< 0.01	**2.8**	32	0.36	**0.2**	< 1
AMQ-ENV15-117	-	0	1.0	-	Overburden	Waste	Grab	-	2.5	99	134	< 0.05	9400	0.01	**5.2**	50	0.35	**0.12**	1.0
AMQ-ENV15-118	-	0	1.0	-	Overburden	Waste	Grab	-	4.2	100	139	< 0.05	15000	0.02	**5.5**	120	0.47	**0.15**	1.0
AMQ-ENV15-119	-	0	1.0	-	Overburden	Waste	Grab	-	2.9	100	115	< 0.05	9600	0.01	**5.2**	72	0.37	**0.15**	3.0
AMQ-ENV15-125	-	0	1.0	-	Overburden	Waste	Grab	-	2.7	100	98	< 0.05	8200	0.02	**3.5**	60	0.54	**0.3**	2.0
AMQ-ENV15-126	-	0	1.0	-	Overburden	Waste	Grab	-	1.8	99	109	< 0.05	8900	0.04	**2.5**	65	0.51	**0.24**	2.0
AMQ-ENV15-127	-	0	1.0	-	Overburden	Waste	Grab	-	2.2	101	108	< 0.05	7900	0.03	**2.9**	60	0.53	**0.24**	2.0
AMQ-ENV15-128	-	0	1.0	-	Overburden	Waste	Grab	-	2.1	101	92	< 0.05	7100	0.01	**2.9**	58	0.38	**0.15**	2.0
AMQ-ENV15-129	-	0	1.0	-	Overburden	Waste	Grab	-	3.6	100	104	< 0.05	9200	0.02	**5.2**	64	0.59	**0.31**	2.0
								Minimum	*1.7*	*99*	*75*	*< 0.05*	*5400*	*< 0.01*	*2.5*	*27*	*0.28*	*0.12*	*< 1*
								Maximum	*6.8*	*101*	*139*	*< 0.05*	*15000*	*0.06*	*6.8*	*120*	*1.0*	*0.43*	*3.0*
								Median	*2.7*	*100*	*102*	*nc*	*8550*	*0.015*	*4.4*	*60*	*0.44*	*0.2*	*2.0*
								Average	*3.1*	*100*	*106*	*nc*	*9050*	*0.021*	*4.3*	*62*	*0.48*	*0.22*	*1.8*
								Std. Deviation	*1.4*	*0.62*	*18*	*nc*	*2834*	*0.016*	*1.4*	*26*	*0.19*	*0.092*	*0.75*
								75th Percentile	*3.7*	*100*	*111*	*nc*	*9450*	*0.023*	*5.3*	*67*	*0.53*	*0.26*	*2.0*
WTN-1	-	0	0.1	-	Lake Sediment	Waste	Grab	-	16	99	14	0.074	13900	**0.26**	**897**	212	1.2	**0.45**	7.3
WTN-2	-	0	0.1	-	Lake Sediment	Waste	Grab	-	17	100	18	0.083	12700	**0.28**	**1000**	**586**	1.2	**0.42**	7.2
WTN-3	-	0	0.1	-	Lake Sediment	Waste	Grab	-	14	99	25	0.061	14800	**0.23**	**568**	97	1.3	**0.47**	6.9
WTN-4	-	0	0.1	-	Lake Sediment	Waste	Grab	-	16	99	17	**0.094**	14200	**0.32**	**1760**	180	1.3	**0.49**	7.7
WTN-5	-	0	0.1	-	Lake Sediment	Waste	Grab	-	17	99	16	0.08	13400	**0.25**	**809**	179	1.2	**0.46**	6.4
								Minimum	*14*	*99*	*14*	*0.061*	*12700*	*0.23*	*568*	*97*	*1.2*	*0.42*	*6.4*
								Maximum	*17*	*100*	*25*	*0.094*	*14800*	*0.32*	*1760*	*586*	*1.3*	*0.49*	*7.7*
								Median	*16*	*99*	*17*	*0.08*	*13900*	*0.26*	*897*	*180*	*1.2*	*0.46*	*7.2*
								Average	*16*	*99*	*18*	*0.078*	*13800*	*0.27*	*1007*	*251*	*1.2*	*0.46*	*7.1*
								Std. Deviation	*1.3*	*0.6*	*4.0*	*0.012*	*797*	*0.034*	*450*	*192*	*0.048*	*0.026*	*0.48*
								75th Percentile	*17*	*99*	*18*	*0.083*	*14200*	*0.28*	*1000*	*212*	*1.3*	*0.47*	*7.3*

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Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample type		Distance to Ore	Calcium	Cadmium	Cobalt	Chromium	Copper	Iron	Potassium	Lithium	Magnesium	Manganese
		From	To						µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g	µg/g
AMQ-ENV15-116	-	0	1.0	-	Overburden	Waste	Grab	-	1100	0.05	4.5	36	3.3	18000	1300	7.0	3100	190
AMQ-ENV15-130	-	0	1.0	-	Overburden	Waste	Grab	-	1800	0.04	7.6	**160**	17	28000	3100	15	6200	300
AMQ-ENV15-131	-	0	1.0	-	Overburden	Waste	Grab	-	1200	0.03	4.9	62	5.6	15000	1500	9.0	4000	180
AMQ-ENV15-132	-	0	1.0	-	Overburden	Waste	Grab	-	1100	0.03	4.2	40	4.9	14000	1200	7.0	3200	200
AMQ-ENV15-117	-	0	1.0	-	Overburden	Waste	Grab	-	2400	0.05	7.9	71	6.9	26000	2400	12	5500	260
AMQ-ENV15-118	-	0	1.0	-	Overburden	Waste	Grab	-	2700	0.02	13	**300**	19	25000	5200	14	13000	390
AMQ-ENV15-119	-	0	1.0	-	Overburden	Waste	Grab	-	2000	0.04	6.8	**220**	9.8	20000	3100	10	6300	200
AMQ-ENV15-125	-	0	1.0	-	Overburden	Waste	Grab	-	1700	0.04	5.2	120	8.7	19000	2300	9.0	4100	220
AMQ-ENV15-126	-	0	1.0	-	Overburden	Waste	Grab	-	2000	0.04	5.4	**140**	7.7	19000	3300	10	4300	240
AMQ-ENV15-127	-	0	1.0	-	Overburden	Waste	Grab	-	1800	0.03	4.8	110	6.7	18000	2600	9.0	3700	240
AMQ-ENV15-128	-	0	1.0	-	Overburden	Waste	Grab	-	1500	0.04	4.6	**180**	6.8	16000	2600	7.0	3800	200
AMQ-ENV15-129	-	0	1.0	-	-	Waste	Grab	-	1500	0.04	6.9	**160**	11	20000	2400	10	4600	290
								Minimum	*1100*	*0.02*	*4.2*	*36*	*3.3*	*14000*	*1200*	*7.0*	*3100*	*180*
								Maximum	*2700*	*0.05*	*13*	*300*	*19*	*28000*	*5200*	*15*	*13000*	*390*
								Median	*1750*	*0.04*	*5.3*	*130*	*7.3*	*19000*	*2500*	*9.5*	*4200*	*230*
								Average	*1733*	*0.038*	*6.3*	*133*	*9.0*	*19833*	*2583*	*9.9*	*5150*	*243*
								Std. Deviation	*498*	*0.0087*	*2.5*	*78*	*4.7*	*4387*	*1078*	*2.6*	*2689*	*60*
								75th Percentile	*2000*	*0.04*	*7.1*	*165*	*10*	*21250*	*3100*	*11*	*5675*	*268*
WTN-1	-	0	0.1	-	Lake Sediment	Waste	Grab	-	1950	0.32	24	84	**37**	**151000**	2040	13	5800	**6660**
WTN-2	-	0	0.1	-	Lake Sediment	Waste	Grab	-	2150	0.48	20	81	**38**	**146000**	2060	12	5410	**23500**
WTN-3	-	0	0.1	-	Lake Sediment	Waste	Grab	-	2050	0.15	21	95	**36**	**127000**	2150	14	6300	**2200**
WTN-4	-	0	0.1	-	Lake Sediment	Waste	Grab	-	2260	0.36	25	95	**42**	**179000**	2110	13	6110	**5430**
WTN-5	-	0	0.1	-	Lake Sediment	Waste	Grab	-	1660	0.41	24	88	**39**	**139000**	1840	13	5880	**3900**
								Minimum	*1660*	*0.15*	*20*	*81*	*36*	*127000*	*1840*	*12*	*5410*	*2200*
								Maximum	*2260*	*0.48*	*25*	*95*	*42*	*179000*	*2150*	*14*	*6300*	*23500*
								Median	*2050*	*0.36*	*24*	*88*	*38*	*146000*	*2060*	*13*	*5880*	*5430*
								Average	*2014*	*0.34*	*23*	*88*	*38*	*148400*	*2040*	*13*	*5900*	*8338*
								Std. Deviation	*229*	*0.12*	*2.4*	*6.4*	*2.3*	*19334*	*120*	*0.84*	*337*	*8639*
								75th Percentile	*2150*	*0.41*	*24*	*95*	*39*	*151000*	*2110*	*13*	*6110*	*6660*

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Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample type		Distance to Ore	ICP									
		From	To						Molybdenum µg/g	Sodium µg/g	Nickel µg/g	Phosphorus µg/g	Lead µg/g	Antimony µg/g	Selenium µg/g	Tin µg/g	Strontium µg/g	Silicon µg/g
AMQ-ENV15-116	-	0	1.0	-	Overburden	Waste	Grab	-	0.7	180	11	430	5.1	< 0.8	< 0.7	0.5	8.3	1300
AMQ-ENV15-130	-	0	1.0	-	Overburden	Waste	Grab	-	**8.0**	340	30	540	11	< 0.8	< 0.7	0.8	17	1500
AMQ-ENV15-131	-	0	1.0	-	Overburden	Waste	Grab	-	0.6	210	16	400	6.0	< 0.8	< 0.7	< 0.5	12	1500
AMQ-ENV15-132	-	0	1.0	-	Overburden	Waste	Grab	-	0.6	180	13	400	5.4	< 0.8	< 0.7	< 0.5	12	1600
AMQ-ENV15-117	-	0	1.0	-	Overburden	Waste	Grab	-	0.6	300	20	740	5.4	< 0.8	< 0.7	< 0.5	13	2100
AMQ-ENV15-118	-	0	1.0	-	Overburden	Waste	Grab	-	**1.5**	310	72	670	7.4	< 0.8	< 0.7	0.5	25	1500
AMQ-ENV15-119	-	0	1.0	-	Overburden	Waste	Grab	-	**7.2**	560	35	590	5.5	< 0.8	< 0.7	0.6	19	2100
AMQ-ENV15-125	-	0	1.0	-	Overburden	Waste	Grab	-	**1.8**	450	17	400	6.5	< 0.8	< 0.7	0.7	18	2000
AMQ-ENV15-126	-	0	1.0	-	Overburden	Waste	Grab	-	**6.0**	770	18	480	6.6	< 0.8	< 0.7	0.7	20	5300
AMQ-ENV15-127	-	0	1.0	-	Overburden	Waste	Grab	-	**2.2**	550	15	420	6.1	< 0.8	< 0.7	0.7	17	2700
AMQ-ENV15-128	-	0	1.0	-	Overburden	Waste	Grab	-	**6.8**	620	20	400	5.0	< 0.8	< 0.7	0.6	17	2300
AMQ-ENV15-129	-	0	1.0	-	Overburden	Waste	Grab	-	**4.7**	420	22	430	8.0	< 0.8	< 0.7	0.7	16	1500
								Minimum	*0.6*	*180*	*11*	*400*	*5.0*	*< 0.8*	*< 0.7*	*< 0.5*	*8.3*	*1300*
								Maximum	*8.0*	*770*	*72*	*740*	*11*	*< 0.8*	*< 0.7*	*0.8*	*25*	*5300*
								Median	*2.0*	*380*	*19*	*430*	*6.1*	*nc*	*nc*	*0.6*	*17*	*1800*
								Average	*3.4*	*408*	*24*	*492*	*6.5*	*nc*	*nc*	*0.61*	*16*	*2117*
								Std. Deviation	*2.9*	*188*	*17*	*118*	*1.7*	*nc*	*nc*	*0.11*	*4.4*	*1086*
								75th Percentile	*6.2*	*553*	*24*	*553*	*6.8*	*nc*	*nc*	*0.7*	*18*	*2150*
WTN-1	-	0	0.1	-	Lake Sediment	Waste	Grab	-	**6.3**	292	92	**1830**	11	**0.25**	**0.78**	<2.0	22	-
WTN-2	-	0	0.1	-	Lake Sediment	Waste	Grab	-	**6.9**	302	**126**	**2250**	11	**0.27**	**0.78**	<2.0	30	-
WTN-3	-	0	0.1	-	Lake Sediment	Waste	Grab	-	**5.3**	257	60	**1770**	12	**0.25**	**0.75**	<2.0	22	-
WTN-4	-	0	0.1	-	Lake Sediment	Waste	Grab	-	**8.6**	355	93	**2750**	13	**0.34**	**0.96**	<2.0	25	-
WTN-5	-	0	0.1	-	Lake Sediment	Waste	Grab	-	**5.8**	328	**108**	**2020**	12	**0.27**	**0.76**	<2.0	19	-
								Minimum	*5.3*	*257*	*60*	*1770*	*11*	*0.25*	*0.75*	*< 2*	*19*	*< 0*
								Maximum	*8.6*	*355*	*126*	*2750*	*13*	*0.34*	*0.96*	*< 2*	*30*	*< 0*
								Median	*6.3*	*302*	*93*	*2020*	*12*	*0.27*	*0.78*	*nc*	*22*	*nc*
								Average	*6.6*	*307*	*96*	*2124*	*12*	*0.28*	*0.81*	*nc*	*23*	*nc*
								Std. Deviation	*1.3*	*37*	*24*	*397*	*0.76*	*0.037*	*0.087*	*nc*	*4.0*	*nc*
								75th Percentile	*6.9*	*328*	*108*	*2250*	*12*	*0.27*	*0.78*	*nc*	*25*	*nc*

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Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample type		Distance to Ore	Titanium	Thallium	Uranium	Vanadium	Zinc
		From	To						µg/g	µg/g	µg/g	µg/g	µg/g
AMQ-ENV15-116	-	0	1.0	-	Overburden	Waste	Grab	-	430	0.06	1.2	13	32
AMQ-ENV15-130	-	0	1.0	-	Overburden	Waste	Grab	-	490	0.18	**5.9**	15	49
AMQ-ENV15-131	-	0	1.0	-	Overburden	Waste	Grab	-	340	0.07	1.8	11	29
AMQ-ENV15-132	-	0	1.0	-	Overburden	Waste	Grab	-	340	0.06	2.2	10	29
AMQ-ENV15-117	-	0	1.0	-	Overburden	Waste	Grab	-	670	0.08	1.1	33	45
AMQ-ENV15-118	-	0	1.0	-	Overburden	Waste	Grab	-	940	0.23	1.3	29	34
AMQ-ENV15-119	-	0	1.0	-	Overburden	Waste	Grab	-	520	0.09	1.2	14	31
AMQ-ENV15-125	-	0	1.0	-	Overburden	Waste	Grab	-	460	0.1	**2.6**	12	34
AMQ-ENV15-126	-	0	1.0	-	Overburden	Waste	Grab	-	520	0.1	2.2	10	32
AMQ-ENV15-127	-	0	1.0	-	Overburden	Waste	Grab	-	500	0.1	2.0	11	33
AMQ-ENV15-128	-	0	1.0	-	Overburden	Waste	Grab	-	400	0.07	1.6	7.0	26
AMQ-ENV15-129	-	0	1.0	-	Overburden	Waste	Grab	-	430	0.11	**2.9**	13	36
								Minimum	*340*	*0.06*	*1.1*	*7.0*	*26*
								Maximum	*940*	*0.23*	*5.9*	*33*	*49*
								Median	*475*	*0.095*	*1.9*	*13*	*33*
								Average	*503*	*0.1*	*2.2*	*15*	*34*
								Std. Deviation	*164*	*0.051*	*1.3*	*7.9*	*6.6*
								75th Percentile	*520*	*0.1*	*2.3*	*14*	*35*
WTN-1	-	0	0.1	-	Lake Sediment	Waste	Grab	-	379	0.22	**8.8**	24	**88**
WTN-2	-	0	0.1	-	Lake Sediment	Waste	Grab	-	370	0.24	**8.5**	22	**99**
WTN-3	-	0	0.1	-	Lake Sediment	Waste	Grab	-	413	0.15	**9.2**	26	**79**
WTN-4	-	0	0.1	-	Lake Sediment	Waste	Grab	-	393	0.21	**9.6**	25	**96**
WTN-5	-	0	0.1	-	Lake Sediment	Waste	Grab	-	308	0.24	**9.2**	24	**93**
								Minimum	*308*	*0.15*	*8.5*	*22*	*79*
								Maximum	*413*	*0.24*	*9.6*	*26*	*99*
								Median	*379*	*0.22*	*9.2*	*24*	*93*
								Average	*373*	*0.21*	*9.1*	*24*	*91*
								Std. Deviation	*40*	*0.035*	*0.45*	*1.4*	*7.9*
								75th Percentile	*393*	*0.24*	*9.2*	*25*	*96*

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Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample Type		Distance to Ore	ABA							
		From	To						Paste pH	Sulphur (total)	Acid Leachable SO4-S	Sulphide	Carbon (total)	Graphitic Carbon	Carbonate (Graphite Corrected)	AP
										%						
AMQ-ENV15-116	-	0	1.0		Overburden	Waste	Grab	-	6.2	< 0.005	< 0.01	< 0.01	1.0	< 0.01	<0.025	< 0.31
AMQ-ENV15-130	-	0	1.0		Overburden	Waste	Grab	-	6.2	< 0.005	< 0.01	< 0.01	1.8	< 0.01	0.035	< 0.31
AMQ-ENV15-131	-	0	1.0		Overburden	Waste	Grab	-	7.1	< 0.005	< 0.01	< 0.01	0.37	< 0.01	<0.025	< 0.31
AMQ-ENV15-132	-	0	1.0		Overburden	Waste	Grab	-	7.7	< 0.005	< 0.01	< 0.01	0.11	< 0.01	<0.025	< 0.31
AMQ-ENV15-117	-	0	1.0		Overburden	Waste	Grab	-	7.2	< 0.005	< 0.01	< 0.01	0.36	< 0.01	<0.025	< 0.31
AMQ-ENV15-118	-	0	1.0		Overburden	Waste	Grab	-	7.1	< 0.005	< 0.01	< 0.01	0.58	< 0.01	0.055	< 0.31
AMQ-ENV15-119	-	0	1.0		Overburden	Waste	Grab	-	7.5	< 0.005	< 0.01	< 0.01	0.51	< 0.01	0.03	< 0.31
AMQ-ENV15-125	-	0	1.0		Overburden	Waste	Grab	-	7.4	< 0.005	< 0.01	< 0.01	0.53	< 0.01	<0.025	< 0.31
AMQ-ENV15-126	-	0	1.0		Overburden	Waste	Grab	-	8.5	< 0.005	< 0.01	< 0.01	0.11	< 0.01	<0.025	< 0.31
AMQ-ENV15-127	-	0	1.0		Overburden	Waste	Grab	-	8.5	< 0.005	< 0.01	< 0.01	0.18	0.01	< 0.025	< 0.31
AMQ-ENV15-128	-	0	1.0		Overburden	Waste	Grab	-	8.1	< 0.005	< 0.01	< 0.01	0.25	< 0.01	<0.025	< 0.31
AMQ-ENV15-129	-	0	1.0		Overburden	Waste	Grab	-	7.2	< 0.005	< 0.01	< 0.01	0.65	< 0.01	<0.025	< 0.31
								Minimum	*6.2*	*< 0.005*	*< 0.01*	*< 0.01*	*0.11*	*< 0.01*	*< 0.025*	*< 0.31*
								Maximum	*8.5*	*< 0.005*	*< 0.01*	*< 0.01*	*1.8*	*0.01*	*0.055*	*< 0.31*
								Median	*7.3*	*nc*	*nc*	*nc*	*0.44*	*nc*	*0.025*	*nc*
								Average	*6.8*	*nc*	*nc*	*nc*	*0.54*	*nc*	*0.029*	*nc*
								Std. Deviation	*nc*	*nc*	*nc*	*nc*	*0.48*	*nc*	*0.0088*	*nc*
								75th Percentile	*nc*	*nc*	*nc*	*nc*	*0.6*	*nc*	*0.026*	*nc*
WTN-1	-	0	0.1	-	Lake Sediment	Waste	Grab	-	-	0.14	0.07	0.07	4.2	0.02	< 0.025	2.2
WTN-2	-	0	0.1	-	Lake Sediment	Waste	Grab	-	-	0.15	0.09	0.06	4.2	< 0.01	0.04	1.9
WTN-3	-	0	0.1	-	Lake Sediment	Waste	Grab	-	-	0.14	0.11	0.03	4.0	< 0.01	< 0.025	0.94
WTN-4	-	0	0.1	-	Lake Sediment	Waste	Grab	-	-	0.16	0.12	0.04	4.4	< 0.01	< 0.025	1.3
WTN-5	-	0	0.1	-	Lake Sediment	Waste	Grab	-	-	0.17	0.13	0.04	4.4	0.02	< 0.025	1.3
								Minimum	*< -*	*0.14*	*0.07*	*0.03*	*4.0*	*< 0.01*	*< 0.025*	*0.94*
								Maximum	*< -*	*0.17*	*0.13*	*0.07*	*4.4*	*0.02*	*0.04*	*2.2*
								Median	*nc*	*0.15*	*0.11*	*0.04*	*4.2*	*nc*	*0.025*	*1.3*
								Average	*nc*	*0.15*	*0.1*	*0.048*	*4.2*	*nc*	*0.028*	*1.5*
								Std. Deviation	*nc*	*0.012*	*0.024*	*0.016*	*0.16*	*nc*	*0.0067*	*0.51*
								75th Percentile	*nc*	*0.16*	*0.12*	*0.06*	*4.4*	*nc*	*0.025*	*1.9*

Sample ID	Borehole ID	Depth (m)		Lithology Code	Rock Name	Sample Type		Distance to Ore	NP	Net NP	CaNP	CaNPR	NPR	ARD Potential
		From	To						t CaCO3/1000 t			ratio		
AMQ-ENV15-116	-	0	1.0		Overburden	Waste	Grab	-	2.3	2.0	< 0.42	1.3	7.4	non PAG
AMQ-ENV15-130	-	0	1.0		Overburden	Waste	Grab	-	2.2	1.9	0.58	1.9	7.0	non PAG
AMQ-ENV15-131	-	0	1.0		Overburden	Waste	Grab	-	3.3	3.0	< 0.42	1.3	11	non PAG
AMQ-ENV15-132	-	0	1.0		Overburden	Waste	Grab	-	3.7	3.4	< 0.42	1.3	12	non PAG
AMQ-ENV15-117	-	0	1.0		Overburden	Waste	Grab	-	5.8	5.5	< 0.42	1.3	19	non PAG
AMQ-ENV15-118	-	0	1.0		Overburden	Waste	Grab	-	8.4	8.1	0.92	2.9	27	non PAG
AMQ-ENV15-119	-	0	1.0		Overburden	Waste	Grab	-	5.8	5.5	0.5	1.6	19	non PAG
AMQ-ENV15-125	-	0	1.0		Overburden	Waste	Grab	-	4.9	4.6	< 0.42	1.3	16	non PAG
AMQ-ENV15-126	-	0	1.0		Overburden	Waste	Grab	-	6.1	5.8	< 0.42	1.3	20	non PAG
AMQ-ENV15-127	-	0	1.0		Overburden	Waste	Grab	-	6.5	6.2	< 0.42	1.3	21	non PAG
AMQ-ENV15-128	-	0	1.0		Overburden	Waste	Grab	-	5.5	5.2	< 0.42	1.3	18	non PAG
AMQ-ENV15-129	-	0	1.0		Overburden	Waste	Grab	-	4.1	3.8	< 0.42	1.3	13	non PAG
								Minimum	*2.2*	*1.9*	*< 0.42*	*1.3*	*7.0*	**Bulk CaNPR = 1.5 Uncertain**
								Maximum	*8.4*	*8.1*	*0.92*	*2.9*	*27*	
								Median	*5.2*	*4.9*	*0.42*	*1.3*	*17*	
								Average	*4.9*	*4.6*	*0.48*	*1.5*	*16*	
								Std. Deviation	*1.8*	*1.8*	*0.15*	*0.47*	*5.9*	
								75th Percentile	*5.9*	*5.6*	*0.44*	*1.4*	*19*	
WTN-1	-	0	0.1	-	Lake Sediment	Waste	Grab	-	-5.0	-7.2	< 0.42	0.19	-2.3	non PAG
WTN-2	-	0	0.1	-	Lake Sediment	Waste	Grab	-	-4.1	-6.0	0.67	0.36	-2.2	non PAG
WTN-3	-	0	0.1	-	Lake Sediment	Waste	Grab	-	-3.2	-4.1	< 0.42	0.44	-3.4	non PAG
WTN-4	-	0	0.1	-	Lake Sediment	Waste	Grab	-	-4.3	-5.6	< 0.42	0.33	-3.4	non PAG
WTN-5	-	0	0.1	-	Lake Sediment	Waste	Grab	-	-5.5	-6.8	< 0.42	0.33	-4.4	non PAG
								Minimum	*-5.5*	*-7.2*	*< 0.42*	*0.19*	*-4.4*	**Bulk CaNPR = 1.5 Uncertain**
								Maximum	*-3.2*	*-4.1*	*0.67*	*0.44*	*-2.2*	
								Median	*-4.3*	*-6.0*	*0.42*	*0.33*	*-3.4*	
								Average	*-4.4*	*-5.9*	*0.47*	*0.33*	*-3.1*	
								Std. Deviation	*0.88*	*1.2*	*0.11*	*0.091*	*0.92*	
								75th Percentile	*-4.1*	*-5.6*	*0.42*	*0.36*	*-2.3*	

606000
606500
607000
7256000
7255500
7255000
N
A-P10
A-P5
BERM
AMQ-ENV15-119
AMQ-ENV15-118
AMQ-ENV15-117
WTN-4
WTN-5
WTN-1
WTN-2
WTN-3
EXPLORATION LAYDOWN AREA
CRUSHING AREA (2X CRUSHER)
ORE STOCKPILE 1
185
6508-WHL-001-001
AMQ-ENV15-116
NORTH CHANNEL
AMQ-ENV15-130
AMQ-ENV15-129
AMQ-ENV15-131
AMQ-ENV15-132
186
AMQ-ENV15-128
MAMMOTH CHANNEL CULVERT
AMQ-ENV15-125
AMQ-ENV15-127
AMQ-ENV15-126
EXPLORATION RAMP VENT RAISE
WHALE TAIL ATTENUATION POND
A16
MAMMOTH DIKE
ORE STOCKPILE 3

LEGEND

- LAKE SEDIMENT SAMPLE LOCATION
- OVERBURDEN SAMPLE LOCATION
- EXPLORATION LAYDOWN AREA
- ORE STOCKPILE
- STORM WATER STORAGE POND
- ATTENUATION POND
- DIKE
- NATURAL WATERSHED
- ROAD
- TEMPORARY ROAD
- DIVERSION CHANNEL
- COLLECTION CHANNEL
- CULVERT
- INTAKE WATER PIPE
- CONTACT WATER PIPE
- FRESHWATER PIPE
- WATERCOURSE
- WATERBODY

REFERENCE

1. INFRASTRUCTURE OBTAINED FROM AGNICO EAGLE MINES LIMITED FROM 6108-600-210-002_R2(2019)s.dwg.
2. WATERCOURSE AND WATERBODY DATA OBTAINED FROM PHOTOSAT
DATUM: NAD 83 CSRS PROJECTION: UTM ZONE 14

100 0 100
METRES

PROJECT
AGNICO EAGLE
AGNICO EAGLE MINES LIMITED:
MEADOWBANK DIVISION
WHALE TAIL PIT PROJECT

TITLE
LOCATIONS OF OVERBURDEN AND LAKE SEDIMENT SAMPLES

Golder Associates

PROJECT		1541520	FILE No.	
DESIGN	JR	24 Mar. 2016	SCALE AS SHOWN	REV. A
GIS	MH	09 May. 2016		
CHECK	JC	10 Jun. 2016		
REVIEW	VB	10 Jun. 2016		

MAP 2

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