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Ministry of Energy and Mines
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Geological, Geochemical and Diamond Drilling **TOTAL COST:** $326,460.07

AUTHOR(S): M. Archambault and L. Dandy **SIGNATURE(S):** Linda Dandy

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-611/June 20, 2016 to May 1, 2017 **YEAR OF WORK:** 2016/7

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5653171, 5653174/June 16, 2017

PROPERTY NAME: Yellowjacket

CLAIM NAME(S) (on which the work was done): 327903

COMMODITIES SOUGHT: Au

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 104N043

MINING DIVISION: Atlin **NTS/BCGS:** 104N.053

LATITUDE: 59 ° 35.7 ' " **LONGITUDE:** 133 ° 32.8 ' " **(at centre of work)**

OWNER(S):
1) African Queen Mines Ltd. 2)

MAILING ADDRESS:
1153 - 56th Street, Box 19040 Delta, B.C. V4L 2P8

OPERATOR(S) [who paid for the work]:
1) Same as above 2)

MAILING ADDRESS:
Same as above

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Cache Creek Group, ultramafic, andesite, Permian, Pine Creek Fault, listwanite, silicification, Fe and Mg-carbonatization, nuggety gold mineralization in quartz veins, orogenic/mesothermal model

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 17295, 18608, 28785, 32608, 34034, 34419

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TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	recce (8000ha), research, reports	509377, 509387, 364968, 394474	58,377.10
Photo interpretation		1037085, 1037102	
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock	338 drill core samples - 36 elem ICP, Au by FA	327903, 509387	8,902.92
Other	34 water quality samples - total/diss metals, etc	327903, 509387	10,527.08
DRILLING (total metres; number of holes, size)			
Core	635.70m, 3 holes, NQ	327903, 509387	187,154.43
Non-core	Supplies-boxes, mud. Labour/core shack/pads	327903, 509387	21,673.54
RELATED TECHNICAL			
Sampling/assaying	Core logging geologist, core cutter	327903, 509387	22,925.00
Petrographic	Water sampling/supplies	394473, 364968, 509387	16,900.00
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	$326,460.07

ASSESSMENT REPORT

ON THE

YELLOWJACKET PROJECT

ATLIN MINING DIVISION
BRITISH COLUMBIA

Centre of Work:

NAD 83, Zone: 8V
Northing: 6607320 N / Easting: 582066 E
Latitude: 59°35.7'N / Longitude: 133°32.8'W
Mapsheet NTS 104N.053

For the period of June 20, 2016 to May 01, 2017

Owner and Operator:
African Queen Mines Ltd.
1153 56th Street, Box 19040
Delta, B.C.
V4L 2P8

By: Marthe Archambault, M.Sc., P.Geo.
Surrey, BC
And Linda Dandy, P.Geo.
Atlin, BC

August 31, 2017

SUMMARY

The Yellowjacket Property is located along the Pine Creek Valley, 7 to 12 kilometres east of the community of Atlin, in northwestern of British Columbia. The claim group covered in this report consists of 34 contiguous mineral claims totaling 23,135.1 hectares.

The Yellowjacket auriferous zone is hosted within an intense 80 metre wide regional shear zone oriented 065^{o} and steeply dipping to the south. Mineralization occurs mainly as free gold grains hosted in intensely sheared, altered and silicified ultramafic and mafic lithologies.

Placer gold in the Atlin area was discovered in 1898 and the Yellowjacket auriferous vein zone in 1899. Subsequently additional gold zones in bedrock were found. It wasn't until the 1980s that modern day exploration work was conducted on the lode gold showings. Renewed interest in the early 2000s lead to extensive additional work. Diamond drilling on the Yellowjacket zone between 1984 and 2006 totals 16,153 metres in 108 holes.

From 2006 to 2008 Prize Mining undertook an exploration bulk sampling program in the area of the Yellowjacket Gold Zone; the area of excavation is now referred to as the Pine pit. In 2008, Prize processed 4200 tonnes of material in their onsite bulk sample mill. Of this material, 2880 tonnes were considered to be taken from the main mineralized zone and returned gold bars totaling 18.63 kilograms. In 2009, through a Joint Venture deal between Prize Mining and Eagle Plains Resources, a Small Mines Act permit was obtained. Exploration work continued on the property through 2012.

A 2009, an inferred resource estimate was conducted, arriving at an estimated 133,000 tonnes grading 5.8 g/t Au with a cut-off of 1.5 g/t, for a total of 734,000 grams of gold (Dandy and Price, 2010).

There was no activity from 2013 to 2015 when African Queen Mines Ltd. (AQM) acquired the Yellowjacket property. In 2016, AQM drilled four diamond drill holes totalling 635.65 metres.

Although two of the four holes could not be completed and did not reach their target, significant intersections were obtained in three of the holes including 1.5 metres of 3.2 g/t gold in hole YJ16-01, 9.79 metres of 1.1 g/t and 11 metres of 4.1 g/t gold in hole YJ16-02.

Between 2006 and 2009, a water quality baseline and monitoring program was initiated on the Yellowjacket Property. This included stream sampling along Pine Creek, installation of groundwater monitoring wells and construction of field leachate bins for metal leaching/acid rock drainage testing. Between 2010 and 2014, sampling was only conducted intermittently. After AQM acquired the property in late 2015, water quality monitoring was re-initiated for the 2016 season.

Two water quality sampling episodes were completed in 2016 with results showing that stream water quality in Pine Creek is acceptable. Groundwater samples show elevations in iron but this does not appear to be migrating from the wells to the stream samples. The leachate data from the field bins indicates that sulphate, Cr, and Se are potential parameters of concern with respect to ML/ARD. Continued water quality monitoring at the Yellowjacket site will assist in AQM achieving its goal of re-opening the Yellowjacket Mine in the future.

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1 INTRODUCTION

This section is taken from Dandy & Price, 2010, with only minor changes.

Location

The property is located in the northwest region of British Columbia (Figure 1). The Yellowjacket workings are located 7 to 12 kilometres east of the community of Atlin along the Pine Creek Valley. The 2016 field work is centered at latitude 59°35.7'N and longitude 133°32.8'E within map sheets 104N.052, 062, 043,053,063, 044,054, 045 and 055.

Access

Access to the Yellowjacket Property is via the Surprise Lake Road, east from Atlin for 9 kilometres. The Property lies along the Pine Creek Valley, parallel to Surprise Lake Road, for approximately 6.5 kilometres. Approximately 5.5 kilomtres east of Atlin along the Surprise Lake Road is the turn-off to the Spruce Creek road which provides the main access to other parts of the property, along with numerous 4x4 and All-Terrain-Vehicle tracks and trails.

Physiography

The Atlin Gold Property lies in an area of moderate relief, in a broad valley between mountains, with elevations ranging between 810 and 1060 metres along the Pine Creek valley. In the far southeastern corner of the Atlin Gold Property the elevation increases up slope to 1340 metres. Outcrop is very limited, generally confined to creek gullies, but occasionally observed in road cuts and along some of the steeper slopes. The main area of mineralization identified to date on the Yellowjacket Property is the Yellowjacket Gold Zone (YGZ). The YGZ lies along the Pine Creek Valley and is completely covered by five or more metres of tailings consisting of boulders from historic placer mining.

The tree line is at approximately 1370 metres on north facing slopes and 1525 metres on south facing slopes. Below 1370 metres the valleys are forested with lodgepole pine, black spruce, aspen and scrub birch. Mountain alder and willow grow near streams with stunted buckbrush covering the hills above tree line.

Climate

Climate is typical of northern British Columbia with winter temperatures averaging -5°C in January with moderate snowfall. A pleasant summer climate has average daytime temperatures of 20°C and little precipitation. Total annual precipitation is measured at 279.4 millimetres of moisture. "Winter" conditions can be expected from October to April.

Datum and Positioning References

The projection used on this project is NAD 83 Zone 08V. Any claim position information is taken from the BC government websites: The MapPlace, or Mineral Tenure Online (MTO).

FIGURE 1: Yellowjacket Project Location Map (After Devine, 2013)

2 PROPERTY DEFINITION

2.1 Claim Tenure

The Yellowjacket Property is located within the Atlin Mining Division in northwestern British Columbia. The claim group covered in this report consists of 34 contiguous mineral claims totaling 23,135.1 hectares. It is centered at 59°32'49" and -133°19'13". A summary of the claim tenure details is provided in Table 1 below, and a location map in Figure 2.

TABLE 1: MINERAL CLAIM TENURE SUMMARY

Title Number	Claim Name	Owner	Title Type	Map Number	Issue Date	Good To Date	Status	Area (ha)
327903	YJ	281690 (100%)	Mineral	104N053	1994/JUL/01	2023/NOV/30	GOOD	75.0
364968	EVA 7	281690 (100%)	Mineral	104N063	1998/AUG/25	2023/NOV/30	GOOD	375.0
367492	CELESTE	281690 (100%)	Mineral	104N053	1998/DEC/23	2023/NOV/30	GOOD	75.0
394473	YJ 1	281690 (100%)	Mineral	104N053	2002/JUN/18	2023/NOV/30	GOOD	500.0
394474	YJ 2	281690 (100%)	Mineral	104N053	2002/JUN/18	2023/NOV/30	GOOD	500.0
509379		281690 (100%)	Mineral	104N	2005/MAR/22	2023/NOV/30	GOOD	491.8
509387		281690 (100%)	Mineral	104N	2005/MAR/22	2023/NOV/30	GOOD	442.3
1037079		281690 (100%)	Mineral	104N	2015/JUL/03	2019/OCT/02	GOOD	1,082.0
1037085		281690 (100%)	Mineral	104N	2015/JUL/03	2019/OCT/02	GOOD	1,525.6
1037086		281690 (100%)	Mineral	104N	2015/JUL/03	2019/OCT/02	GOOD	738.8
1037087		281690 (100%)	Mineral	104N	2015/JUL/03	2019/OCT/02	GOOD	427.1
1037101		281690 (100%)	Mineral	104N	2015/JUL/04	2019/OCT/02	GOOD	443.3
1037102		281690 (100%)	Mineral	104N	2015/JUL/04	2019/OCT/02	GOOD	361.1
1037181		281690 (100%)	Mineral	104N	2015/JUL/08	2019/OCT/02	GOOD	1,627.0
1037182		281690 (100%)	Mineral	104N	2015/JUL/08	2019/OCT/02	GOOD	377.7
1037183		281690 (100%)	Mineral	104N	2015/JUL/08	2019/OCT/02	GOOD	394.2
1037417		281690 (100%)	Mineral	104N	2015/JUL/20	2019/JUL/05	GOOD	525.7
1037418		281690 (100%)	Mineral	104N	2015/JUL/20	2019/OCT/02	GOOD	706.4
1038161		281690 (100%)	Mineral	104N	2015/AUG/24	2019/OCT/02	GOOD	1,479.2
1038162		281690 (100%)	Mineral	104N	2015/AUG/24	2019/OCT/02	GOOD	1,643.3
1038163		281690 (100%)	Mineral	104N	2015/AUG/24	2019/OCT/02	GOOD	1,641.2
1038396		281690 (100%)	Mineral	104N	2015/SEP/06	2019/OCT/02	GOOD	1,642.0
1038397		281690 (100%)	Mineral	104N	2015/SEP/06	2019/OCT/02	GOOD	919.8
1038398		281690 (100%)	Mineral	104N	2015/SEP/06	2019/OCT/02	GOOD	1,101.0
1038544		281690 (100%)	Mineral	104N	2015/SEP/14	2019/OCT/01	GOOD	623.3
1040951	YELLOWJACKET	281690 (100%)	Mineral	104N	2016/JAN/04	2019/OCT/01	GOOD	32.8
1040953	YELLOWJACKET	281690 (100%)	Mineral	104N	2016/JAN/04	2019/OCT/01	GOOD	32.8
1040954	YELLOWJACKET	281690 (100%)	Mineral	104N	2016/JAN/04	2019/OCT/01	GOOD	16.4
1045959		281690 (100%)	Mineral	104N	2016/AUG/13	2019/JUL/05	GOOD	394.1
1046371	AQAU1	281690 (100%)	Mineral	104N	2016/AUG/31	2019/JUL/05	GOOD	1,644.6
1046372	AQAU2	281690 (100%)	Mineral	104N	2016/SEP/01	2019/JUL/05	GOOD	328.7
1046373	AQAU3	281690 (100%)	Mineral	104N	2016/SEP/01	2019/JUL/05	GOOD	197.3
1046413	AQAU4	281690 (100%)	Mineral	104N	2016/SEP/02	2019/JUL/05	GOOD	279.3
1046793	PARIS	281690 (100%)	Mineral	104N	2016/SEP/19	2019/JUL/05	GOOD	491.4

Note: *Data checked with Mineral Titles Online August 1, 2017*

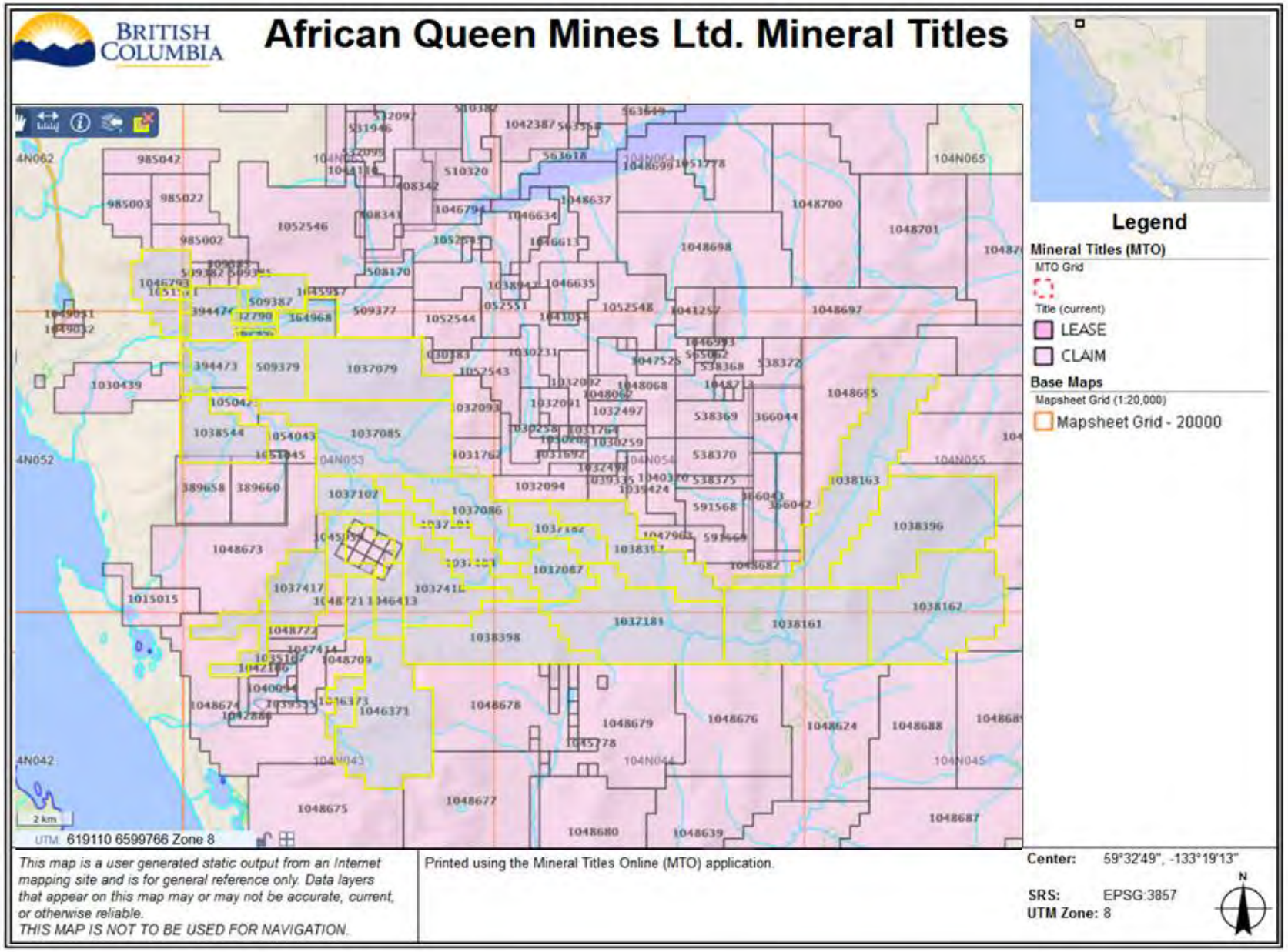

FIGURE 2: Claim Location Map

2.2 Property History

History section up to 2012 is taken from Devine, 2013.

The discovery of gold in the Atlin area in 1897 led to the establishment of the village of Atlin. The first workings were on Pine Creek and by the end of 1898, more than 3000 people were camped in the Atlin area. Since that time, placer mining has provided economic input to the area. In addition to placer gold exploration, hard rock prospecting has also identified a number of bedrock gold targets over the last 120 years. In 1899, an auriferous vein zone (the Yellowjacket showing) was discovered along Pine Creek by placer miners (BC Ministry of Energy and Mines Minfile Number 104N043). Additional gold zones in bedrock were found during subsequent placer mining operations at the Red Jacket and Rock of Ages showings (Prior, 1903).

1980's Exploration work on the Yellowjacket area gold occurrences is summarized by Downie (2012).

In 1983, Canova Resources ("Canova") and Tri-Pacific Resources optioned the area that is now part of the Yellowjacket Property from the title holder and conducted a small diamond drill program that intersected high grade gold mineralization at depth. In 1986, Homestake Mineral Development Corp. ("Homestake") optioned the Yellowjacket Property and conducted geological, geophysical and drilling programs until 1989. From 1986 to 1988, Homestake diamond drilled 58 holes on the Yellowjacket Zone, and in 1989, carried out a reverse circulation rotary drilling program their larger Yellowjacket Property. Drilling in 1986 to 1989 identified gold mineralization within broad zones of intensely altered (carbonate, silica, mariposite) ultramafic rocks, and in adjacent silicified volcanic rocks.

<u>2003 to present</u> (summarized after Downie, 2012).

Renewed interest in the Yellowjacket area occurrences by Muskox Minerals (later called Prize Mining) led to drilling programs from 2003 to 2006 which included 14 NQ and 50 HQ size diamond drill holes totaling 7797.26 metres on the Yellowjacket Gold Zone. In 2005 and 2006, 10 HQ size diamond drill holes totaling 1481.28 metres were drilled on the Rock of Ages Zone. The drill programs were designed to test for high grade gold mineralization within a large fault zone (the Pine Creek Fault) along the contact between ultramafics and Cache Creek Group volcanic and metasedimentary rocks. The majority of the holes drilled during on the Yellowjacket Gold Zone during these programs encountered one or more intervals of gold mineralization. The results of the drilling indicated broad zones of gold values ranging from 0.5 to 5.0 g/t relating to shallowly dipping structural zones. These shallow structures are intersected by two steeply dipping fault zones (the Pine Creek Fault and its associated cross faults). Narrower but higher grade gold mineralization has been identified within these steeply dipping structures.

From 2006 to 2008, Prize Mining undertook an exploration bulk sampling program in the area of the Yellowjacket Gold Zone; the area of excavation is now referred to as Pine pit. In 2008, Prize processed 4200 tonnes of material in their onsite bulk sample mill. Of this material, 2880 tonnes were considered to be taken from the main mineralized zone and returned gold bars totaling 18.63 kilograms (599 ounces; Dandy and Price, 2010). During the course of the excavation of the original pit, the geology of the pit floor was mapped; this provided the first detailed look at the structure along the fault zone, and the in-situ gold relationships.

In 2009, through a joint venture between Prize Mining and Eagle Plains Resources, a Small Mines Act permit was obtained. Pine pit was dewatered and additional material excavated. Geological mapping of new exposures to the immediate east of the original pit was undertaken to add to the geological database (Katay, 2009).

In the fall of 2010, Eagle Plains carried out a reverse circulation drill program totalling 2181 metres in 64-holes in the area of the proposed East pit extension of the Pine Pit. Also during the 2010 season, the Rock of Ages pit was excavated by placer operations. The Pit was progressively uncovered from west to east as overburden was stripped and the pay near bedrock was mined and processed for placer gold extraction. During the 2010 excavation two shafts were uncovered in the central part of the present Rock of Ages pit. The main, deep shaft fits historic descriptions and the approximate location of the 'Rock of Ages' shaft. Rumours indicate that another shaft was exposed to the west of the current pit during placer mining in early 2000's (Brad White, pers. comm., 2010). It is possible that this other showing may be the Red Jacket showing also described in historic reports (Prior, 1903).

As placer mining at Rock of Ages progressed in 2010, the exposed bedrock surface was mapped (Devine, 2010). Continued pit excavation to the east in 2011 was mapped in 2012 (Devine, 2013; Downie, 2013).

In the summer of 2012, Eagle Plains continued its reverse circulation drill program east of Pine Pit with an additional 21 holes totalling 729 metres. They also reverse circulation drilled 15 holes totalling 716.43 metres at Rock of Ages and 12 step out holes from the Yellowjacket Zone totalling 781.11 metres.

There was no activity from 2013 to 2015 when African Queen Mines Ltd. (AQM) acquired the Yellowjacket property from Athabasca Nuclear Corp. Athabasca obtained the property as a spin off from Eagle Plains called Yellowjacket Resources Ltd., with a subsequent name change to Athabasca Nuclear Corp. with primary interests in uranium exploration in Saskatchewan. Additional mineral claims were acquired by AQM under the B.C. Mineral Tenure Act in 2015 and 2016. AQM drilled 1 diamond drill hole on tenure 1037086 in 2015 and 4 diamond drill holes along the Pine Creek Fault in the vicinity of the Yellowjacket mine area in 2016.

2.3 Historical Resource Estimates

At the completion of their exploration program, Homestake reported an historic resource estimate of 453,500 tonnes grading 10.26 g/t gold (Schroeter, T.G. and Pinsent, R.H; BC Ministry of Energy and Mines Open File 2000-2: Gold Production and Resources in BC (1858 - 1998)). This estimate was done prior to the establishment of the 43-101 National Instrument.

In 2009, on behalf of Prize Mining Corp. and Eagle Plains Resources Ltd., B.J. PRICE GEOLOGICAL, with the assistance of C. Gallagher, M.Sc., conducted an inferred resource estimate of 133,000 tonnes grading 5.8 g/t Au with a cut-off of 1.5 g/t, for a total of 734,000 grams of gold (Dandy & Price, 2010). Details are presented in Table 2 below.

TABLE 2: **2009 INFERRED RESOURCE ESTIMATE**

CUT OFF	SECTIONS	BLOCKS	TONNES	GRADE	TOTAL AU	TOTAL AU
g/t			metric	g/t	grams	ounces
0.5	26	57	184,000	4.4	781,000	25,000
1.5	20	39	133,000	5.8	734,000	24,000

3 DIAMOND DRILLING DATA AND INTERPRETATION

3.1 Introduction

Four diamond drill holes totalling 635.65 metres were drilled on mineral tenure 327903 from July 20th to August 14th, 2016. The objective of the drill program was to increase the mineralization of the Yellowjacket zone. The core is stored at the Yellowjacket site, 581782E / 6607337N.

The samples were sent to Bureau Veritas for 36 element-ICP-MS analysis. The preparation and analysis method descriptions are described in Section 3.4.

3.2 Lithologies and Geological Setting

There are eleven distinct lithologies that were previously logged in drill core. These lithologies were originally defined by Homestake (Marud, 1987). In order to maintain consistency in core logging, these rock descriptions and labels continue to be followed as much as possible. In some instances, changes to the lithological nomenclature were necessary for clarity (Dandy, 2006). Table 3 below includes a description of each lithological unit.

The mineralized zone, approximately 40 metres wide, occurs within an 80 metres wide shear zone trending 065° and dipping steeply to the south. This shear zone is typically bound by two clayey-gougy fault zones (the north and south faults), generally 5 to 10 metres wide (Figure 3). The gold mineralization is hosted within highly silicified, sheared and altered serpentinites and mafic volcanic units.

TABLE 3: LITHOLOGIES

Map Unit	Lithology	Description
1	Basalt	Generally dark green, weakly to strongly chloritized rocks. They are very fine to fine grained and massive. Original mineralogy consists of approximately 20% plagioclase and 80% pyroxene. Fracturing is ubiquitous with most fractures being coated with dark green serpentine.
2	Serpentinite	Light blue-white, to dark blue-grey, to blue-green, to olive green and massive. Moderately to strongly magnetic. Soft and waxy, often crumbly, depending on extent of alteration. Softer when more talc is present. Olive green altered locally within shear zones. Stringers, veinlets and spots of talc and carbonate. Sometimes contains fine black mafic minerals on cleavage, magnetite? Possible weak silicification in places. Rare quartz veining and mariposite with listwanite alteration. Usually locally sheared in various orientations.
3a	Mg-Carbonate	Light to dark grey, or grey-bluish to light greenish in colour. Soft and crumbly, often powdered and clay-rich. Usually found along shear margins and rimming highly altered lithologies. Often fizzes in HCl. Strong magnesium-carbonate alteration often with talc and/or overprint silica flooding.
3b	Fe-Carbonate	Dark orange, mottled and spotted or with thin dark stripes which are possibly mariposite. Completely iron carbonate altered. May have weak to strong talc or silica flooding. Often found with thin quartz stockwork veining within, and also next to thicker quartz veins. Often very indurated, depending on silica content.

Map Unit	Lithology	Description
3ab	Fe-Mg Carbonate	Main serpentinite alteration assemblage; primarily light grey to white with variable amount of rusty orange mm-cm scale blebs, variable depending on Fe:Mg. Generally massive, with rare shearing, becomes more crumbly with increasing Mg-alteration. Fizzes in HCl. Qtz-carbonate veining increases with Fe-Carb content, usually thin. Some veins contain minor amounts of talc and another white mineral, possibly asbestos? Non-magnetic.
4	Diabase	May have ophitic textures. Fine grained mixture of pyroxene and plagioclase. Hematite as a common fracture coating and can be finely disseminated. Alteration varies with chlorite, carbonate and serpentine.
9a	Hornblende Andesite	Dark grey to green, fine-grained volcanic rocks made up of plagioclase feldspar with 10-15% quartz. Mafics are dominantly hornblende and chlorite. Hornblende crystals are long, acicular, and display lineation. Fe alteration common near surface of bedrock and decreases with depth.
9b	Plagioclase Andesite	Same as 9a with dominantly plagioclase frequently with plagioclase porphyry texture. Fresher andesites display distinct, euhedral white plagioclase crystals 1-2mm in size. Fe-alteration common near bedrock surface and decreases with depth.
9a or 9b	Silicified Pyritic Andesite	Light grey in colour, well indurated, with silica flooding and stockwork quartz veining. Pyrite crystals found in proximity to thin quartz veins and fractures. May be in hornblende or plagioclase andesites, often in proximity to larger quartz veins.
11	Lamprophyre	Dark reddish-brown to greyish in colour. Micaceous, with abundant biotite or phlogopite. Very crumbly near bedrock surface, becoming more indurated with depth. Associated with quartz veins. Sometimes becoming more silicified and displaying orange coloring and Fe-alteration near quartz veins.

3.3 Drill Hole Description and Results

Introduction

The objective of this drilling campaign was to extend and expand the Yellowjacket mineralized zone. The holes were aimed at the projected continuity of the zone.

The drill hole positions and orientations are detailed in Table 4. Their position and surface projection is presented in Figure 3. Drilling was performed by Xinex Mining Corp. There were no downhole surveys.

TABLE 4: Drill hole information

Hole	Length	Azimuth	Dip	Easting	Northing	Elevation	Core Size	Date Started	Date Finished	Hole_Status
	m	degree	degree	m	m	m				
YJ16-01	102.41	340	-55	582189	6607320	872	HQ	20-Jul-16	24-Jul-16	Complete
YJ16-02	164.44	340	-75	582189	6607320	872	HQ	24-Jul-16	30-Jul-16	Complete
YJ16-03	138.68	160	-60	582035	6607380	861	HQ	30-Jul-16	4-Aug-16	Abandoned
YJ16-04	230.12	160	-60	582230	6607490	874	HQ	6-Aug-16	14-Aug-16	Abandoned

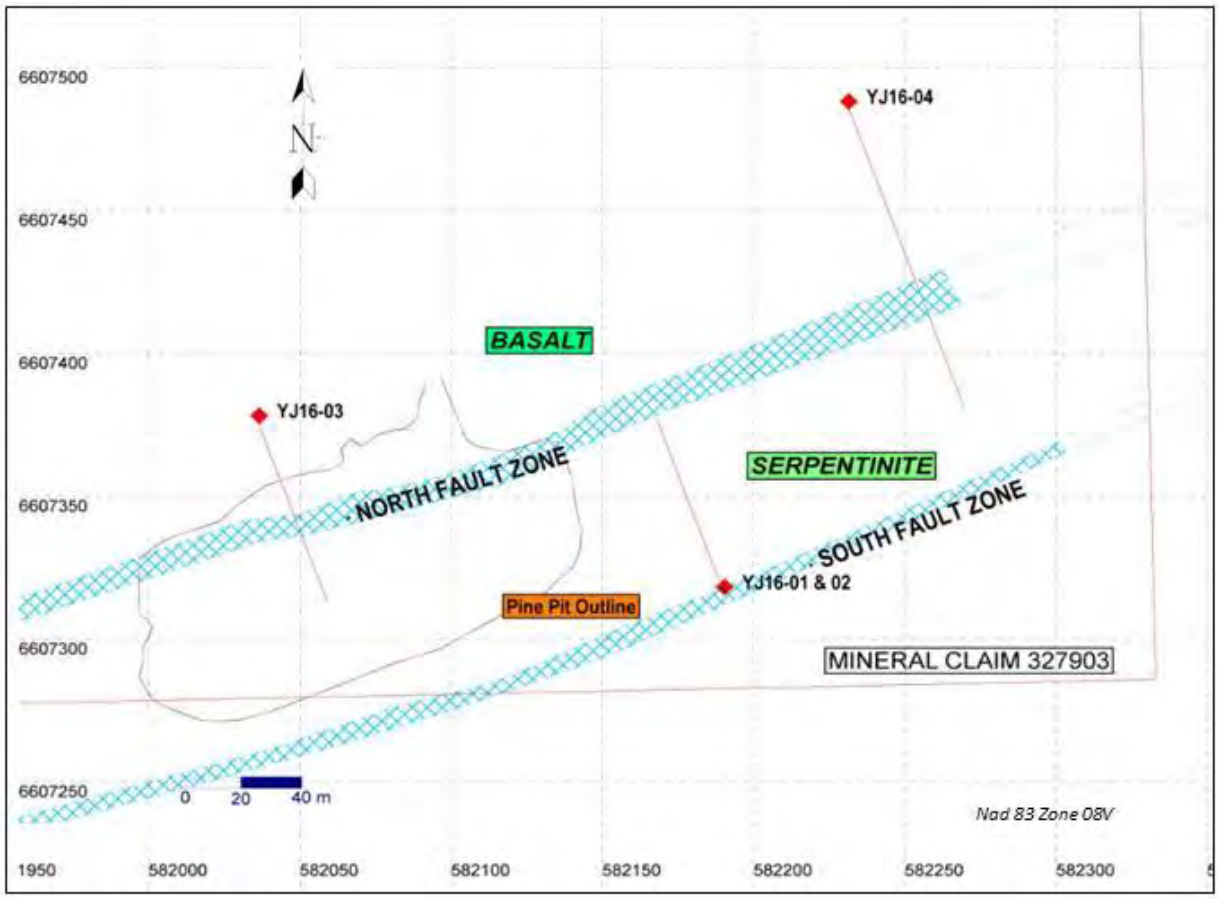

FIGURE 3: 2016 Diamond Drill Hole Location Map

Drill Hole Summary

DDH YJ16-01 and YJ16-02 were positioned from the same location on the south side of the mineralized shear zone, drilling towards the northwest.

These holes intersected a series of intercalated mafic and ultramafic rocks variably altered to serpentinite, Fe-Mg carbonate, talk, magnesite and chlorite. They also intersected numerous fault and breccia zones.

The mineralized zone intersected in hole YJ16-01, 64.30-65.80 metres at 3.2 g/t Au, corresponds to a zone of highly silicified serpentinite(3ab) and listwanite(3c) with approximately 20% white quartz and lesser carbonate veinlets ranging from 1 to 20 mm in width and hosting a trace of very fine grained pyrite and 0.5% coarse grained euhedral magnetite.

Three mineralized zones were intersected in hole YJ16-02. The first one, 49.70-54.90 metres at 0.9 g/t Au, in andesite(9b), is brecciated with weak to strong bleaching and 1-2% disseminated pyrite. An interval within: 51.90-52.90 metres, hosts approximately 50% quartz veins with mariposite. The veins show multiple brecciation phases, are white to grey coloured and host very fine grained pyrite and 0.5% coarse grained magnetite. The second zone, 71.40-81.19 metres at 1.1 g/t Au, straddles the contact between serpentinite (3ab) and andesite (9b). The serpentinite shows 5-8% of chaotic quartz-

carbonate +/- mariposite turning into listwanite (3c) between 71.93 and 73.05 metres. A strongly bleached and silicified zone, crudely brecciated, occurs in the andesite from 74.49 to 76.45 metres. From 76.45 to 81.19 metres, the andesite is relatively unaltered with a few quartz-carbonate veinlets. The last zone, from 102.40 to 113.40 metres, averages 4.1 g/t Au including a 1.08 metre interval (102.40-103.48 metres) at 37.1 g/t Au. This section comprises two contacts between serpentinite and andesite with numerous fault/fault gouge/shear/brecciated zones (several with lower core recovery) containing quartz and quartz-carbonate alteration and stringers with 2-4% pyrite in places.

The 132.82 to 134.23 metre interval ran 1,011.5 ppb gold but the result could not be repeated by fire assay.

DDH YJ16-03 was positioned on the north side of the mineralized shear zone drilling towards the southeast. It crosses intercalated serpentinite (mostly (2) with lesser (3ab)) and andesite (9b) lithologies. The upper part of the hole is highly fractured with some shear planes. As depth increases, after approximately 125 metres, the hole enters the shear zone per se with numerous gougy zones and increasingly poor core recoveries until drilling became too difficult and the hole had to be abandoned. It is within this gougy zone hosted by andesite that the mineralized intersection is located: 135.33-136.25 metres of 2.7 g/t Au.

DDH YJ16-04 was positioned on the north side of the shear zone, drilling towards the southeast. The first 110 metres consists of alternating serpentinite (2) and basalt (1). Below 110 metres, the lithologies are dominated by serpentinite, (2) at first changing to (3ab) with depth, intercalated with andesite (9b). The hole lies within a strong fault/shear zone from start to bottom where it had to be abandoned due to fault gouge pinching the rods. One sample within a strong fault zone ran 2,621.2 ppb gold, but the result could not be repeated by fire assay.

Significant intersections are summarized in Table 5. Drill logs with sample intervals and gold assay results are shown in Appendix III, drill sections in Appendix IV and laboratory Certificates of Analyses in Appendix V.

TABLE 5: LIST OF SIGNIFICANT INTERSECTIONS

Hole		From	To	Interval	Au
		m	m	m	g/t
YJ16-01		64.30	65.80	1.50	3.2
YJ16-02		49.70	54.90	5.20	0.9
	incl.	49.70	51.00	1.30	2.6
YJ16-02		71.40	81.19	9.79	1.1
	incl.	71.40	76.99	5.59	1.9
	incl.	73.40	74.49	1.09	8.9
YJ16-02		102.40	113.40	11.00	4.1
	incl.	102.40	103.48	1.08	37.1
YJ16-03		135.33	136.25	0.92	2.7

3.4 Sampling Procedure

From the drill site, the core was transported to the Yellowjacket core logging facility located on site to be logged and sampled. The core from each sample interval was cut in half with a diamond bladed coresaw, and one half portion was put back in the core box and the other half placed in a numbered sample bag. The bags were closed and kept under lock & key until their transportation to Bureau Veritas Laboratories in Whitehorse, Yukon by African Queen Mines Ltd. personnel. After completing sample preparation in Whitehorse, Bureau Veritas shipped the pulps to their Vancouver, BC facility where they were analyzed with their AQ200 package consisting of a geochemical aqua-regia digestion with HNO_3-HCl acid digestion followed by ICP-MS 36 element analysis with a gold lower detection limit of 0.5 ppb and upper detection limit of 100 ppm. Samples above the detection limit were analysed by "metallic screen" method by which the sample is pulverized to 85% passing a 200 mesh sieve, and 1 kg to 150 mesh sieve, saving the + and - fractions. Both fractions were then analyzed by Fire Assay and recalculated into a total gold value.

3.5 Drill Program Conclusions

The gold mineralization in this area presents a strong nugget effect. It is typical to have a wide variability in gold results. In this case, intersections with low gold values or having analysis which did not repeat at first try cannot be ignored as they still indicate the continuation of the mineralized zone. It is for this reason that drilling has to be conducted on a tight spacing. A metallic screen assay follow-up on samples with strong anomalous gold results is required in order to get more reliable and repeatable assay values.

The wide gouge zones present great difficulty for drilling operations. It is preferable to drill the zone from the south as in holes YJ16-01 and 02.

4 WATER QUALITY MONITORING PROGRAM

4.1 Introduction

In 2016, a water quality monitoring program was undertaken. This program consists of analysis of surface water from Pine Creek, groundwater from several monitoring wells and leachate from 5 kinetic test bins. Baseline water quality data was collected in 2006 and 2007, in conjunction with the bulk sampling program and monitoring has been conducted intermittently between 2009 and 2014. African Queen re-established the monitoring program in 2016 in order to have recent available data as they continue their exploration program with a view to ultimately re-opening the Yellowjacket Gold Mine.

4.2 Surface Water Quality Monitoring

The four surface water sample site locations (PC-1, PC-2, PC-5 and PC-6) along Pine Creek were located by GPS and relabelled with new flagging. Although the water samples collected in July and October 2016 were not taken during the peak of freshet, in both instances water levels in Pine Creek were considerably higher than during "Low Flow/TSS Conditions".

Each of the 2016 water samples were analysed for: Total Suspended Solids (TSS), total metals for extended potability, total ammonia (NH3), total nitrogen, dissolved metals and dissolved metals for mercury (Hg), and included analysis for as turbidity, pH, chloride (Cl), fluoride (F), sulphate (SO4) and phosphorous (P). As well, the 2016 water sample analysis consisted of analysis for Ammonia in Water, a

suite of total and dissolved metals, an Extended Potable Water Chemistry Package, and Total Nitrogen. In addition the 2016 results include: pH levels, alkalinity, turbidity, apparent colour, electrical conductivity, and the elements Be, Ca, Mg, P, K, and Na.

Water samples were collected on July 24 and October 1, 2016 from 4 sites along Pine Creek. Following collection, the samples were kept cool overnight, and then couriered directly to Maxxam's preparatory lab facility at Whitehorse, Yukon. From there, the samples were flown for analysis to Maxxam's Burnaby, British Columbia laboratory.

For each sampling event, a duplicate sample was collected at PC-1 and a field blank sample was also included.

At each sample site 8 bottles were filled:

- 120 ml plastic preserved with H_2SO_4 (Analysis Ammonia-N)
- 120 ml plastic preserved with H_2SO_4 (Analysis Phosphorus-P Total/Dissolved), field filtered
- 1 litre plastic cold preserved (Analysis Alkalinity, Chloride by Automated Colourimetry, Conductance – water, Nitrate + Nitrite (N), Nitrite (N) by CFA, Nitrogen-Nitrate (as N), pH water, Orthophosphate by Konelab, Sulphate by Automated Colourimetry, Total Suspended Solids, Turbidity)
- 250 ml plastic cold preserved (Analysis Fluoride for Mining Clients)
- 40 ml glass preserved with 1 ml 50% HCl (Analysis Mercury dissolved by CVAF), field filtered
- 40 ml glass preserved with 1 ml 50% HCl (Analysis Mercury total by SVAF)
- 120 ml plastic preserved with HNO_3 (Analysis Dissolved Metals – Hardness calculated as $CaCO_3$, Na, K, Ca, Mg, S and elements by CRC ICP-MS diss), field filtered
- 120 ml plastic preserved with HNO_3 (Analysis Total Metals – Hardness total calculated as $CaCO_3$, Na, K, Ca, Mg, S and elements by CRC ICP-MS total).

Sample locations can be seen on Figure 4. Maxxam Laboratory Certificates of Analysis for July 2016 can be found in Appendix VI and October 2016 in Appendix VII.

TABLE 6: JULY 24, 2016 WATER QUALITY DATA

Comparison of July 2016 Water Quality Data to BC Water Quality Guidelines for the Protection of Aquatic Life

Parameter	Units	BC WQ Guidelines		PC-1	PC-2	PC-5	PC-6
		Maximum	30 Day	24-Jul-16	24-Jul-16	24-Jul-16	24-Jul-16
Fluoride (F)	mg/L	1.09	NP	0.700	0.690	0.600	0.690
Nitrite (N)	mg/L	0.06	0.02	<0.02	<0.02	<0.02	<0.02
Nitrate (N)	mg/L	32.8	3	<0.02	<0.02	<0.02	<0.02
Dissolved Sulphate (SO4)	mg/L	NP	218	4.71	4.99	5.98	4.72
Dissolved Chloride (Cl)	mg/L	600[a]	150[a]	<0.50	0.60	0.61	<0.50
Ammonia (N)	mg/L	6.75[b]	1.3[b]	0.036	0.023	0.014	0.020
Total Suspended Solids	mg/L	25	5	<4.0	<4.0	<4.0	<4.0
Turbidity	NTU	8	2	2.22	1.65	2.13	2.15
Dissolved Metals							
Dissolved Aluminum (Al)	µg/L	100	50	5.0	5.0	48.1	5.1
Dissolved Iron (Fe)	µg/L	350	NP	6.8	5.5	29.6	5.7
Total Metals by ICPMS							
Total Antimony (Sb)	µg/L	20	NP	<0.50	<0.50	<0.50	<0.50
Total Arsenic (As)	µg/L	5	NP	0.61	0.67	0.57	0.66
Total Barium (Ba)	µg/L	5000	1000	14.9	15.0	17.9	14.5
Total Boron (B)	µg/L	1200	NP	<50	<50	<50	<50
Total Cadmium (Cd)	µg/L	0.0198[c]	NP	0.011	0.012	<0.010	0.011
Total Chromium (Cr)	µg/L	1	NP	<1.0	1.6	<1.0	<1.0
Total Cobalt (Co)	µg/L	110	4	<0.50	<0.50	<0.50	<0.50
Total Copper (Cu)	µg/L	7[c]	2[c]	0.88	1.06	0.82	0.95
Total Iron (Fe)	µg/L	1000	NP	153	138	131	115
Total Lead (Pb)	µg/L	38[c]	5	<0.20	<0.20	<0.20	<0.20
Total Lithium (Li)	µg/L	870	96	<5.0	<5.0	<5.0	<5.0
Total Manganese (Mn)	µg/L	1146[c]	847[c]	7.5	7.4	4.5	7.5
Total Mercury (Hg)	µg/L	1[d]	0.02	<0.01	<0.01	<0.01	<0.01
Total Molybdenum (Mo)	µg/L	2000	1000	2.9	2.9	2.5	2.8
Total Nickel (Ni)	µg/L	25[c]	NP	2.8	2.8	2.8	2.7
Total Selenium (Se)	µg/L	2	NP	<0.10	<0.10	0.10	<0.10
Total Silver (Ag)	µg/L	0.1[c]	0.05[c]	<0.02	<0.02	<0.02	<0.02
Total Thallium (Tl)	µg/L	0.3	NP	<0.050	<0.050	<0.050	<0.050
Total Titanium (Ti)	µg/L	2000	NP	<5.0	<5.0	<5.0	<5.0
Total Uranium (U)	µg/L	300	NP	2.35	2.39	1.94	2.38
Total Vanadium (V)	µg/L	6	NP	<5.0	<5.0	<5.0	<5.0
Total Zinc (Zn)	µg/L	33[c]	8[c]	<5.0	<5.0	<5.0	<5.0

[a] Wildlife guideline

[b] Based on pH = 7.9 and temperature = 15^{o}C

[c] Hardness dependent guideline, based on hardness of 55 g/L (average hardness for receiving waters from 2009-2013)

[d] Drinking water guideline

TABLE 7: OCTOBER 1, 2016 WATER QUALITY DATA

Comparison of October 2016 Water Quality Data to BC Water Quality Guidelines for the Protection of Aquatic Life

Parameter	Units	BC WQ Guidelines		PC-1	PC-2	PC-5	PC-6
		Maximum	30 Day	01-Oct-16	01-Oct-16	01-Oct-16	01-Oct-16
Fluoride (F)	mg/L	1.09	NP	0.750	0.730	0.650	0.730
Nitrite (N)	mg/L	0.06	0.02	<0.0050	<0.0050	<0.0050	0.0059
Nitrate (N)	mg/L	32.8	3	<0.020	<0.020	<0.020	<0.020
Dissolved Sulphate (SO4)	mg/L	NP	218	4.89	5.31	6.14	5.55
Dissolved Chloride (Cl)	mg/L	600[a]	150[a]	0.71	0.72	0.70	0.52
Ammonia (N)	mg/L	6.75[b]	1.3[b]	0.037	0.014	0.029	0.025
Total Suspended Solids	mg/L	25	5	<4.0	<4.0	<4.0	<4.0
Turbidity	NTU	8	2	4.78	3.88	3.46	5.69
Dissolved Metals							
Dissolved Aluminum (Al)	µg/L	100	50	3.1	3.0	<3.0	3.6
Dissolved Iron (Fe)	µg/L	350	NP	6.4	7.7	7.2	7.5
Total Metals by ICPMS							
Total Antimony (Sb)	µg/L	20	NP	<0.50	<0.50	<0.50	<0.50
Total Arsenic (As)	µg/L	5	NP	0.95	0.90	0.75	0.95
Total Barium (Ba)	µg/L	5000	1000	16.6	17.5	18.3	17.6
Total Boron (B)	µg/L	1200	NP	<50	<50	<50	<50
Total Cadmium (Cd)	µg/L	0.0198[c]	NP	0.015	0.023	<0.010	0.017
Total Chromium (Cr)	µg/L	1	NP	<1.0	<1.0	1.7	<1.0
Total Cobalt (Co)	µg/L	110	4	<0.50	<0.50	<0.50	<0.50
Total Copper (Cu)	µg/L	7[c]	2[c]	1.96	1.88	1.54	1.74
Total Iron (Fe)	µg/L	1000	NP	173	163	139	171
Total Lead (Pb)	µg/L	38[c]	5	<0.20	<0.20	<0.20	<0.20
Total Lithium (Li)	µg/L	870	96	<5.0	<5.0	<5.0	<5.0
Total Manganese (Mn)	µg/L	1146[c]	847[c]	9.2	7.6	5.9	7.2
Total Mercury (Hg)	µg/L	1[d]	0.02	<0.010	<0.010	<0.010	<0.010
Total Molybdenum (Mo)	µg/L	2000	1000	2.5	2.4	2.2	2.5
Total Nickel (Ni)	µg/L	25[c]	NP	3.5	3.6	3.2	3.6
Total Selenium (Se)	µg/L	2	NP	0.12	0.10	<0.10	<0.10
Total Silver (Ag)	µg/L	0.1[c]	0.05[c]	0.027	<0.020	<0.020	<0.020
Total Thallium (Tl)	µg/L	0.3	NP	<0.050	<0.050	<0.050	<0.050
Total Titanium (Ti)	µg/L	2000	NP	<5.0	8.1	<5.0	<5.0
Total Uranium (U)	µg/L	300	NP	2.19	2.06	2.02	2.24
Total Vanadium (V)	µg/L	6	NP	<5.0	<5.0	<5.0	<5.0
Total Zinc (Zn)	µg/L	33[c]	8[c]	<5.0	<5.0	<5.0	<5.0

[a] Wildlife guideline

[b] Based on pH = 7.9 and temperature = 15°C

[c] Hardness dependent guideline, based on hardness of 55 mg/L (average hardness for receiving waters from 2009-2013)

[d] Drinking water guideline

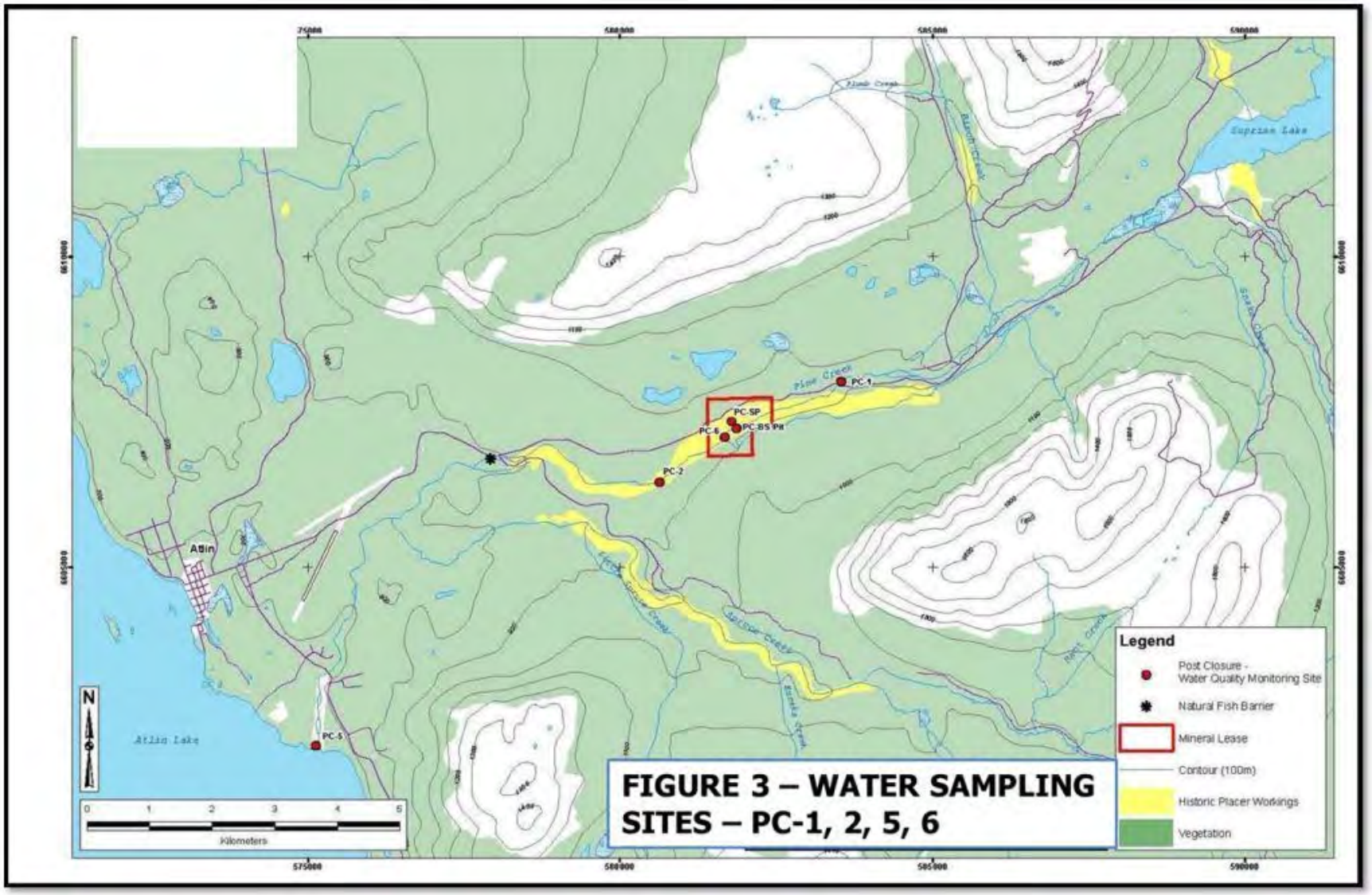

FIGURE 4: Water Sampling Sites – PC-1, 2, 5, 6

Water Sampling Results

All results for the July and October 2016 sampling program fall below the allowable maximum allowable limits of the BC Water Quality guidelines. The pH levels in 2016 were also within the allowable pH range. In July, turbidity values are just slightly higher than the 30 day allowable but not higher than the maximum allowable at sites PC-1, PC-5 and PC-6. In October, turbidity values at all 4 sites exceed the 30 day allowable but remain lower than the maximum. The elevated turbidity is likely due to placer mining activities ongoing up drainage from the sampling sites.

At PC-2, elevated total chromium was detected in July and elevated total cadmium was detected in October. BC water quality guidelines for the Protection of Aquatic Life state an allowable maximum value for chromium is 1 µg/L, while PC-2 July analysis returned 1.6 µg/L. BC water quality guidelines for the Protection of Aquatic Life state an allowable maximum value for cadmium is 0.0198 µg/L, while PC-2 October analysis returned 0.023 µg/L. Also, in October, site PC-3 showed a weakly elevated chromium value of 1.7 µg/L. Prior water sampling throughout the Yellowjacket Project has often shown elevated chromium values in water samples. The project area is underlain by mafic volcanic and ultramafic rock units which are naturally high in chromium; therefore it is likely that background chromium values in water in this region are high.

Surface Water Quality Sampling - Quality Assurance/Quality Control (QA/QC)

In the field, for each sampling sequence a duplicate sample and a field blank were collected. Sample duplicates were collected at PC-1.

The results of the internal Quality Assurance/Quality Control (QA/QC) program provided by Maxxam Analytical Labs for the July and October 2016 sampling program are provided in Appendices VI and VII. The QA/QC data indicates a high level of reliability of the data.

Tables 8 and 9 compare the field QA/QC results for the July and October surface water quality sampling, respectively.

TABLE 8: FIELD QA/QC RESULTS – JULY 2016 WATER QUALITY SAMPLING

Parameter	Units	BC WQ Guidelines		PC-1	DUP-1	FIELD BLANK
		Maximum	30 Day	24-Jul-16	24-Jul-16	24-Jul-16
Fluoride (F)	mg/L	1.09	NP	0.700	0.700	<0.010
Nitrite (N)	mg/L	0.06	0.02	<0.0050	<0.0050	<0.0050
Nitrate (N)	mg/L	32.8	3	<0.02	<0.02	<0.02
Dissolved Sulphate (SO4)	mg/L	NP	218	4.71	4.57	<0.50
Dissolved Chloride (Cl)	mg/L	600[a]	150[a]	<0.50	<0.50	<0.50
Ammonia (N)	mg/L	6.75[b]	1.3[b]	0.036	0.028	<0.0050
Total Suspended Solids	mg/L	25	5	<4.0	<4.0	<4.0
Turbidity	NTU	8	2	2.22	2.25	<0.10
Dissolved Metals						
Dissolved Aluminum (Al)	µg/L	100	50	5.0	4.8	<3.0
Dissolved Iron (Fe)	µg/L	350	NP	6.8	9.6	<5.0
Total Metals by ICPMS						
Total Antimony (Sb)	µg/L	20	NP	<0.50	<0.50	<0.50
Total Arsenic (As)	µg/L	5	NP	0.61	0.65	<0.10
Total Barium (Ba)	µg/L	5000	1000	14.9	14.6	<1.0
Total Boron (B)	µg/L	1200	NP	<50	<50	<50
Total Cadmium (Cd)	µg/L	0.0198[c]	NP	0.011	0.012	<0.010
Total Chromium (Cr)	µg/L	1	NP	<1.0	<1.0	<1.0
Total Cobalt (Co)	µg/L	110	4	<0.50	<0.50	<0.50
Total Copper (Cu)	µg/L	7[c]	2[c]	0.88	0.98	<0.50
Total Iron (Fe)	µg/L	1000	NP	153	141	<10
Total Lead (Pb)	µg/L	38[c]	5	<0.20	<0.20	<0.20
Total Lithium (Li)	µg/L	870	96	<5.0	<5.0	<5.0
Total Manganese (Mn)	µg/L	1146[c]	847[c]	7.5	7.7	<1.0
Total Mercury (Hg)	µg/L	1[d]	0.02	<0.01	<0.010	<0.010
Total Molybdenum (Mo)	µg/L	2000	1000	2.9	2.9	<1.0
Total Nickel (Ni)	µg/L	25[c]	NP	2.8	2.9	<1.0
Total Selenium (Se)	µg/L	2	NP	<0.10	<0.10	<0.10
Total Silver (Ag)	µg/L	0.1[c]	0.05[c]	<0.02	<0.02	<0.02
Total Thallium (Tl)	µg/L	0.3	NP	<0.050	<0.050	<0.050
Total Titanium (Ti)	µg/L	2000	NP	<5.0	<5.0	<5.0
Total Uranium (U)	µg/L	300	NP	2.35	2.29	<0.10
Total Vanadium (V)	µg/L	6	NP	<5.0	<5.0	<5.0
Total Zinc (Zn)	µg/L	33[c]	8[c]	<5.0	<5.0	<5.0

In July, the field blank returned below detection limits for all items. Sample Dup-1, collected at site PC-1, had very good correlations for all elements except dissolved Fe where the duplicate value was 30% less than the original sample.

TABLE 9: FIELD QA/QC RESULTS – OCTOBER 2016 WATER QUALITY SAMPLING

Parameter	Units	BC WQ Guidelines		PC-1	DUP-PC	FIELD BLANK
		Maximum	30 Day	01-Oct-16	01-Oct-16	01-Oct-16
Fluoride (F)	mg/L	1.09	NP	0.750	0.720	<0.010
Nitrite (N)	mg/L	0.06	0.02	<0.0050	<0.0050	<0.0050
Nitrate (N)	mg/L	32.8	3	<0.020	<0.020	<0.020
Dissolved Sulphate (SO4)	mg/L	NP	218	4.89	5.05	0.67
Dissolved Chloride (Cl)	mg/L	600[a]	150[a]	0.71	0.61	<0.50
Ammonia (N)	mg/L	6.75[b]	1.3[b]	0.037	0.024	<0.0050
Total Suspended Solids	mg/L	25	5	<4.0	<4.0	<4.0
Turbidity	NTU	8	2	4.78	4.16	<0.10
Dissolved Metals						
Dissolved Aluminum (Al)	µg/L	100	50	3.1	3.3	<3.0
Dissolved Iron (Fe)	µg/L	350	NP	6.4	6.9	<5.0
Total Metals by ICPMS						
Total Antimony (Sb)	µg/L	20	NP	<0.50	<0.50	<0.50
Total Arsenic (As)	µg/L	5	NP	0.95	0.95	<0.10
Total Barium (Ba)	µg/L	5000	1000	16.6	17.9	<1.0
Total Boron (B)	µg/L	1200	NP	<50	<50	<50
Total Cadmium (Cd)	µg/L	0.0198[c]	NP	0.015	0.021	<0.010
Total Chromium (Cr)	µg/L	1	NP	<1.0	<1.0	<1.0
Total Cobalt (Co)	µg/L	110	4	<0.50	<0.50	<0.50
Total Copper (Cu)	µg/L	7[c]	2[c]	1.96	1.89	<0.50
Total Iron (Fe)	µg/L	1000	NP	173	190	<10
Total Lead (Pb)	µg/L	38[c]	5	<0.20	<0.20	<0.20
Total Lithium (Li)	µg/L	870	96	<5.0	<5.0	<5.0
Total Manganese (Mn)	µg/L	1146[c]	847[c]	9.2	7.7	<1.0
Total Mercury (Hg)	µg/L	1[d]	0.02	<0.010	<0.010	<0.010
Total Molybdenum (Mo)	µg/L	2000	1000	2.5	2.5	<1.0
Total Nickel (Ni)	µg/L	25[c]	NP	3.5	3.8	<1.0
Total Selenium (Se)	µg/L	2	NP	0.12	<0.10	<0.10
Total Silver (Ag)	µg/L	0.1[c]	0.05[c]	0.027	<0.020	<0.020
Total Thallium (Tl)	µg/L	0.3	NP	<0.050	<0.050	<0.050
Total Titanium (Ti)	µg/L	2000	NP	<5.0	5.5	<5.0
Total Uranium (U)	µg/L	300	NP	2.19	2.27	<0.10
Total Vanadium (V)	µg/L	6	NP	<5.0	<5.0	<5.0
Total Zinc (Zn)	µg/L	33[c]	8[c]	<5.0	<5.0	<5.0

As with the July results, in October all elements in the field blank reported below detection limits. Duplicate sample DUP-PC compared well with PC-1 in all elements.

The QA/QC results for the surface water quality sampling show good reproducibility and sampling protocols.

4.3 Groundwater Monitoring

A hydrogeological (groundwater) monitoring program was developed for the Yellowjacket Project to track and assess potential effluent seepage volumes and the fate and transport of effluent plumes. Four monitoring wells were installed by BGC Engineering 2006 to characterize the hydraulic conductivity of the site (BGC, 2006).

Monitoring wells were installed by Lorax at four new locations in August 2009 (Lorax, 2009). Three sets of wells (shallow and deep wells at locations MW09-01, MW09-02 and a single well at MW09-03) were installed in a triangular pattern between the tailings storage facility (TSF) and Pine Creek, with the intention to monitor hydraulic gradients (magnitude and direction), as well as to allow for the collection of groundwater quality samples (Lorax, 2009). An additional monitoring well (nested with shallow and deep wells, MW09-04) was installed upgradient of the TSF to assess background conditions and monitor mine impacts in the event that a shallow groundwater system should develop. Groundwater has since infiltrated into these wells, however subsequent sampling events have shown that recharge is slow.

While grade elevations at MW09-02 and MW09-03 are only 1 to 2 metres above Pine Creek, no water was encountered during drilling in these holes above a depth of more than 12 metres below surface. This implies that there is no direct hydraulic connection between Pine Creek (along its relocated course) and the near-surface deposits.

In July 2016, depths to water measurements were collected for all wells. Sampling was done at MW09-1D, MW09-2D, MW09-2S and MW09-3. The sampling pump did not work properly and therefore sample sites MW09-4D and 4S, plus BGC06-02 and 04 were not able to be sampled. In October 2016, all wells were sampled with the exception of MW09-01S which was dry. The last prior sampling event for the MW09 monitoring wells was in 2013.

For each well sampled, purging of standing water was done using a small pulse pump and removing a calculated 3x volume of standing water. This was very time consuming as the well discharges (notably for the shallow wells) are extremely slow. For each well, the same sequence of 8 sample bottles as for the surface water quality monitoring were collected and analyzed by Maxxam Laboratory.

It is common practice to evaluate only dissolved concentrations in groundwater samples as the non-dissolved phase constituents are typically immobile in the subsurface. As such, total concentrations are analyzed by convention but are not useful for evaluating mine impacts (Lorax, 2014).

Table 10 shows the depth to water for all the wells during the July and October sampling periods. Table 11 shows the results of the July groundwater sampling with a comparison to MW09-4D's October sample (as it was not sampled in July). MW09-4D and 4S are upstream and upslope from the tailing impoundment and are considered outside of the mine influence. Table 12 shows the results of the October groundwater sampling, again comparing the 2009 Lorax wells with MW09-4D. Table 13 shows the results of the October groundwater sampling, comparing the 2006 BGC wells to MW09-4D. Figure 5 shows the locations of the groundwater wells.

Full analytical results for the July sampling can be found in Appendix VI and for the October sampling in Appendix VII.

TABLE 10: DEPTH TO WATER IN GROUNDWATER MONITORING WELLS

Station ID	Description	Location	Depth to Water (m)		Depth to bottom of Well (m)
			July	October	
BGC06-02	Baseline well, deep	South of Pine Creek, near the pit	2.55	2.51	10.19
BGC06-04	Baseline well, shallow		2.33	2.30	4.80
MW09-1S	Monitoring well #1, shallow	SW and downgradient of TSF 581789E, 6607412N	Dry	Dry	2.68
MW09-1D	Monitoring well #1, deep		4.40	4.00	13.3
MW09-2S	Monitoring well #2, shallow	North bank of Pine Creek, downgradient of TSF 581862E, 6607393N	2.09	2.13	2.335
MW09-2D	Monitoring well #2, deep		2.17	2.19	13.02
MW09-3	Monitoring well #3 (shallow)	S and downgradient of TSF 581925E, 6607467N	1.76	1.73	3.36
MW09-4S	Monitoring well #4, shallow	reference station, up-gradient of the TSF 581983E, 6607669N	8.86	8.96	9.47
MW09-4D	Monitoring well #4, deep		8.54	8.84	13.75

Shallow well MW09-1S was dry, as it was in prior sampling programs. Both shallow wells MW09-2S and 4S were extremely difficult to sample as the quantity of water in the wells was limited and was very slow recharging.

TABLE 11: RESULTS OF JULY 2016 GROUNDWATER SAMPLING

PARAMETER	UNITS	Background Well MW09-4D Oct 2016	MW09-1D July 2016	MW09-2S July 2016	MW09-2D July 2016	MW09-3 July 2016
pH		8.05	7.96	8.02	8.12	7.76
Alkalinity ($CaCO_3$)	mg/L	252	855	64.4	141	463
Fluoride (F)	mg/L	0.071	0.180	0.160	0.130	0.160
Chloride (Cl)	mg/L	7.2	2.6	1.0	1.7	1.1
Sulphate (SO4)	mg/L	3.02	127	6.88	23.9	205
Hardness ($CaCO_3$)	mg/L	295	974	38.2	130	687
Dissolved Metals						
Aluminum (Al)	µg/L	3.9	<3.0	6.2	<3.0	4.2
Antimony (Sb)	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Arsenic (As)	µg/L	0.53	3.83	1.50	1.18	1.36
Barium (Ba)	µg/L	39.7	163	10.7	52.4	96.1
Boron (B)	µg/L	<50	126	<50	<50	<50
Cadmium (Cd)	µg/L	<0.010	<0.010	<0.010	<0.010	0.014
Chromium (Cr)	µg/L	<1.0	<1.0	7.4	<1.0	<1.0
Copper (Cu)	µg/L	1.54	<0.20	0.70	<0.20	1.03
Iron (Fe)	µg/L	<5.0	9800	40.8	1050	183
Lead (Pb)	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20
Manganese (Mn)	µg/L	<1.0	1380	<1.0	202	396
Mercury (Hg)	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Molybdenum (Mo)	µg/L	<1.0	2.5	<1.0	<1.0	1.4
Nickel (Ni)	µg/L	13.7	195	1.9	2.0	61.7
Selenium (Se)	µg/L	0.11	<0.10	0.70	<0.10	<0.10
Silicon (Si)	µg/L	8730	31400	16000	21500	13900
Uranium (U)	µg/L	0.76	2.70	0.13	0.26	1.58
Vanadium (V)	µg/L	<5.0	<5.0	8.5	<5.0	<5.0
Calcium (Ca)	µg/L	49.3	59.9	5.24	20.0	91.7
Magnesium (Mg)	µg/L	30.3	210	6.04	19.9	113
Potassium (K)	µg/L	0.488	4.72	0.612	0.656	2.89
Sodium (Na)	µg/L	3.06	24.6	13.4	22.1	9.13
Sulphur (S)	µg/L	<3.0	42.5	<3.0	8.5	78.4

TABLE 12: RESULTS OF OCTOBER 2016 GROUNDWATER WELL SAMPLING
MW09 SERIES

PARAMETER	UNITS	Background Well MW09-4D Oct 2016	MW09-1D October 2016	MW09-2S October 2016	MW09-2D October 2016	MW09-3 October 2016	MW09-4S October 2016
pH		8.05	7.76	8.05	7.82	7.69	8.06
Alkalinity ($CaCO_3$)	mg/L	252	869	143	47.9	442	251
Fluoride (F)	mg/L	0.071	0.180	0.120	0.130	0.140	0.075
Chloride (Cl)	mg/L	7.2	2.4	2.3	1.3	0.97	7.6
Sulphate (SO4)	mg/L	3.02	139	22.6	6.43	184	3.93
Hardness ($CaCO_3$)	mg/L	295	867	118	29.8	578	258
Dissolved Metals							
Aluminum (Al)	µg/L	3.9	3.7	<3.0	5.5	5.7	<3.0
Antimony (Sb)	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Arsenic (As)	µg/L	0.53	3.10	0.83	1.49	1.68	2.10
Barium (Ba)	µg/L	39.7	146	44.8	6.9	94.7	61.4
Boron (B)	µg/L	<50	106	<50	<50	<50	<50
Cadmium (Cd)	µg/L	<0.010	0.016	<0.010	<0.010	0.012	0.022
Chromium (Cr)	µg/L	<1.0	<1.0	<1.0	4.8	<1.0	<1.0
Copper (Cu)	µg/L	1.54	<0.20	0.21	0.38	0.48	3.76
Iron (Fe)	µg/L	<5.0	7730	658	6.3	899	<5.0
Lead (Pb)	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Manganese (Mn)	µg/L	<1.0	929	116	<1.0	393	1.2
Mercury (Hg)	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Molybdenum (Mo)	µg/L	<1.0	1.8	<1.0	<1.0	1.1	<1.0
Nickel (Ni)	µg/L	13.7	143	4.3	1.3	54.7	11.9
Selenium (Se)	µg/L	0.11	<0.10	<0.10	0.38	<0.10	0.15
Silicon (Si)	µg/L	8730	31700	19000	12000	12200	9550
Uranium (U)	µg/L	0.76	1.56	0.20	<0.10	1.37	0.57
Vanadium (V)	µg/L	<5.0	<5.0	<5.0	7.3	<5.0	<5.0
Calcium (Ca)	µg/L	49.3	55.8	17.6	4.09	76.4	52.5
Magnesium (Mg)	µg/L	30.3	177	17.9	4.76	94.1	30.7
Potassium (K)	µg/L	0.488	4.21	0.533	0.341	2.59	0.483
Sodium (Na)	µg/L	3.06	21.4	15.0	10.2	8.62	3.04
Sulphur (S)	µg/L	<3.0	42.2	6.9	<3.0	62.2	<3.0

TABLE 13: RESULTS OF OCTOBER 2016 GROUNDWATER WELL SAMPLING
BGC SERIES

PARAMETER	UNITS	Background Well MW09-4D Oct 2016	BGC06-02 October 2016	BGC06-04 October 2016
pH		8.05	8.05	8.33
Alkalinity ($CaCO_3$)	mg/L	252	106	164
Fluoride (F)	mg/L	0.071	0.210	0.190
Chloride (Cl)	mg/L	7.2	0.54	0.99
Sulphate (SO4)	mg/L	3.02	9.40	13.1
Hardness ($CaCO_3$)	mg/L	295	104	152
Dissolved Metals				
Aluminum (Al)	µg/L	3.9	<3.0	<3.0
Antimony (Sb)	µg/L	<0.50	<0.50	<0.50
Arsenic (As)	µg/L	0.53	0.42	1.56
Barium (Ba)	µg/L	39.7	14.7	37.5
Boron (B)	µg/L	<50	<50	<50
Cadmium (Cd)	µg/L	<0.010	<0.010	<0.010
Chromium (Cr)	µg/L	<1.0	<1.0	<1.0
Copper (Cu)	µg/L	1.54	<0.20	0.21
Iron (Fe)	µg/L	<5.0	<5.0	<5.0
Lead (Pb)	µg/L	<0.20	<0.20	<0.20
Manganese (Mn)	µg/L	<1.0	1.2	1.6
Mercury (Hg)	µg/L	<0.010	<0.010	<0.010
Molybdenum (Mo)	µg/L	<1.0	<1.0	1.8
Nickel (Ni)	µg/L	13.7	5.3	<1.0
Selenium (Se)	µg/L	0.11	<0.10	<0.10
Silicon (Si)	µg/L	8730	9790	7880
Uranium (U)	µg/L	0.76	<0.10	0.23
Vanadium (V)	µg/L	<5.0	<5.0	6.1
Calcium (Ca)	µg/L	49.3	13.1	12.3
Magnesium (Mg)	µg/L	30.3	17.3	29.4
Potassium (K)	µg/L	0.488	0.873	1.57
Sodium (Na)	µg/L	3.06	2.07	8.47
Sulphur (S)	µg/L	<3.0	<3.0	4.0

Groundwater well MW09-4D, being the upstream well, is used as comparison with the wells located adjacent and downstream of the TSF. The TSF has been dry since 2009; therefore the effect it is generating on the surrounding water table should be minimal.

The wells have not been pumped out or sampled for several years and the pumping equipment was working poorly, therefore the purging of the standing water in the wells during the July and October sampling

events may not have been adequate. A new manual pump was obtained and used on well MW09-4D; therefore a more thorough purging of this deep well likely was obtained.

As with prior groundwater sampling (Lorax, 2014), several elements and attributes are lower in MW09-4D than in the other groundwater wells. It is not clear to what extent this is due to disturbance upstream of the mine site, and to what extent it may be due to activity at the Yellowjacket Mine itself. Further groundwater sampling will help to determine the trends in the data. With the limited data available, the main potential parameter of concern is dissolved Fe which is higher in several of the wells than the maximum guidelines for surface water.

The dissolved Fe BC Water Quality guideline has been exceeded at MW09-1D, MW09-2S and MW09-3 in both July and October sampling, as well as MW09-2D in July sampling only. It should be noted that these guidelines apply to surface water and not to groundwater directly. These exceedances are an indication that dissolved Fe is a potential parameter of concern. Continued monitoring will be necessary to determine trends.

Although parameters are elevated above the concentrations found in the background groundwater well, exceedances related to the input from groundwater are not seen at the surface water monitoring stations downstream of the mine.

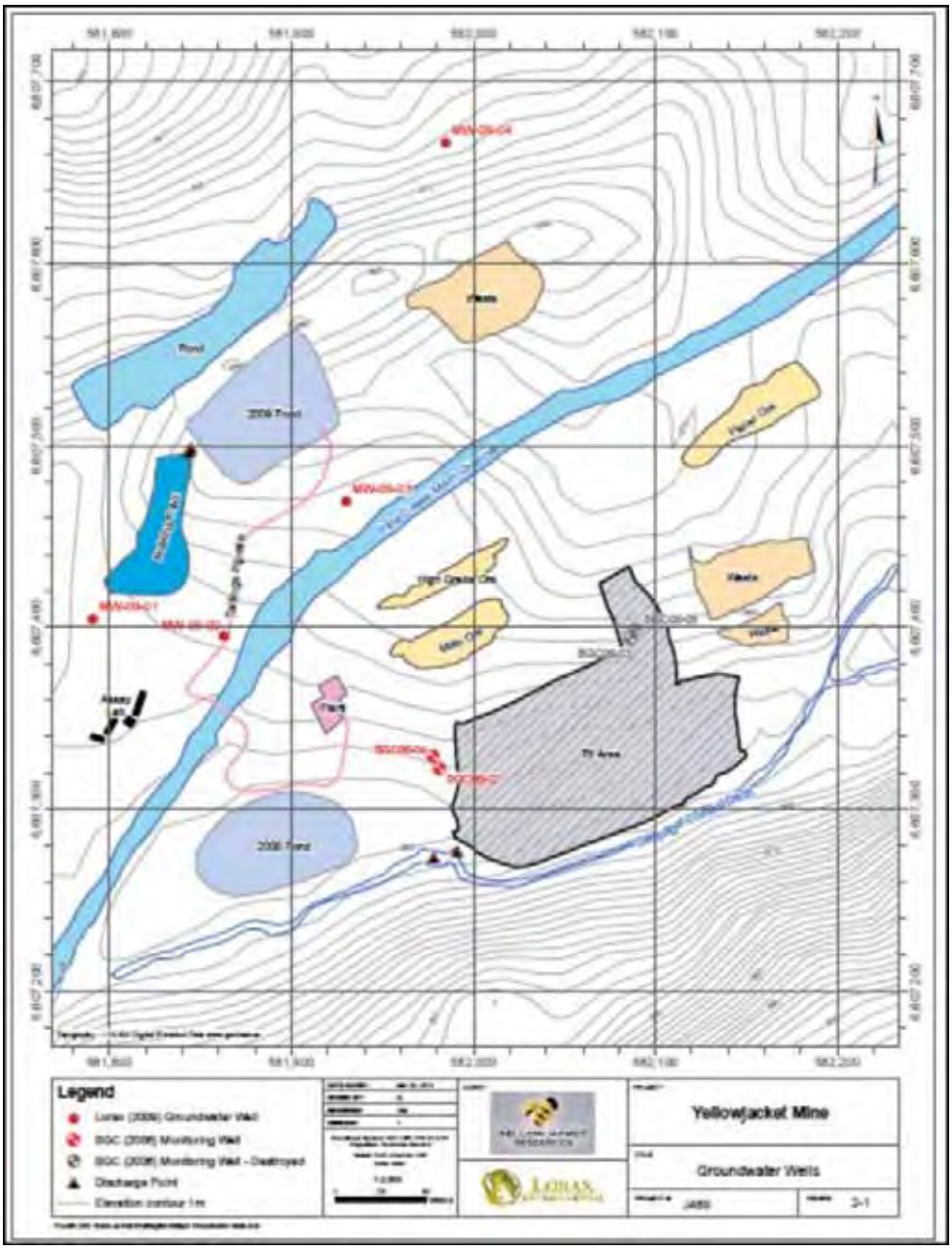

FIGURE 5: Groundwater Wells Location Map

Groundwater Quality Sampling - Quality Assurance/Quality Control (QA/QC)

In the field, for each sampling sequence a duplicate sample and a field blank were collected. Duplicate groundwater samples were collected at MW09-2D.

The results of the internal Quality Assurance/Quality Control (QA/QC) program provided by Maxxam Analytical Labs for the July and October 2016 sampling program are provided in Appendices VI and VII, respectively. The QA/QC data indicates an acceptable level of reliability of the data.

Table 14 compares the field QA/QC results for the July and October groundwater quality sampling.

TABLE 14: FIELD QA/QC RESULTS – JULY AND OCTOBER 2016 GROUNDWATER WELL SAMPLING

PARAMETER	UNITS	MW09-2D July 2016	MW DUPLICATE July 2016	MW09-2D October 2016	MW DUPLICATE October 2016	MW BLANK October 2016
pH		8.12	8.23	7.82	8.07	5.44
Alkalinity ($CaCO_3$)	mg/L	141	<0.50	47.9	<0.50	<0.50
Fluoride (F)	mg/L	0.130	0.130	0.130	0.120	<0.010
Chloride (Cl)	mg/L	1.7	1.9	1.3	1.9	<0.50
Sulphate (SO4)	mg/L	23.9	24.9	6.43	25.8	<0.50
Hardness ($CaCO_3$)	mg/L	130	127	29.8	115	<0.50
Dissolved Metals						
Aluminum (Al)	µg/L	<3.0	<3.0	5.5	<3.0	<3.0
Antimony (Sb)	µg/L	<0.50	<0.50	<0.50	<0.50	<0.50
Arsenic (As)	µg/L	1.18	1.32	1.49	0.83	<0.10
Barium (Ba)	µg/L	52.4	54.5	6.9	43.7	<1.0
Boron (B)	µg/L	<50	<50	<50	<50	<50
Cadmium (Cd)	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Chromium (Cr)	µg/L	<1.0	<1.0	4.8	<1.0	<1.0
Copper (Cu)	µg/L	<0.20	<0.20	0.38	0.30	<0.20
Iron (Fe)	µg/L	1050	1030	6.3	666	<5.0
Lead (Pb)	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20
Manganese (Mn)	µg/L	202	206	<1.0	116	<1.0
Mercury (Hg)	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Molybdenum (Mo)	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel (Ni)	µg/L	2.0	2.4	1.3	4.3	<1.0
Selenium (Se)	µg/L	<0.10	<0.10	0.38	<0.10	<0.10
Silicon (Si)	µg/L	21500	21100	12000	19800	<100
Uranium (U)	µg/L	0.26	0.27	<0.10	0.20	<0.10
Vanadium (V)	µg/L	<5.0	<5.0	7.3	<5.0	<5.0
Calcium (Ca)	µg/L	20.0	19.5	4.09	18.2	<0.050
Magnesium (Mg)	µg/L	19.9	19.0	4.76	17.0	<0.050
Potassium (K)	µg/L	0.656	0.647	0.341	0.526	<0.050
Sodium (Na)	µg/L	22.1	22.7	10.2	15.4	<0.050
Sulphur (S)	µg/L	8.5	9.4	<3.0	6.6	<3.0

The field blank, MW-Blank, returned values below detection for all parameters. Duplicate samples, collected at MW09-2D, returned reasonably comparative values in the July sampling, but very different values in the October sampling. Although the October sample MW09-2D appears to be significantly lower in many of the parameters and elements than its duplicate, the October MW-Duplicate compares more favourably with both of the July samples. This inconsistency may be due to well pumping difficulties and future duplicate sampling needs to be closely monitored for quality control.

4.4 Field Bin Leachate Sampling

The potential for Metal Leaching/Acid Rock Drainage (ML/ARD) to occur at the Yellowjacket Mine was assessed by Lorax (2006, 2009). A field-based kinetic test program was developed to further assess waste rock produced at the Yellowjacket Mine (Lorax, 2009). Kinetic testing is used to mimic the natural weathering processes that act on waste material stored in surface impoundments and dumps in order to help predict loadings from geological waste materials.

Field based kinetic tests provide a proxy for contact water draining from the waste stockpiles. Field leach bin experiments are considered to be useful because they simulate the actual conditions present within natural waste piles, including site-specific climatic conditions, scale, grain size, and water-rock ratios, and provide a cost-effective way to provide long-term monitoring of water quality from geologic materials.

Five field bins have been established at the Yellowjacket Mine, representing the main lithological units:

- YJ-Bin #1 – basalt (+ minor ultramafics)
- YJ-Bin #2 – altered ultramafics
- YJ-Bin #3 – serpentinite
- YJ-Bin #4 – andesite (ore)
- YJ-Bin #5 – diabase

Bins#1 to 3 constitute the majority of the waste rock. Andesite "ore" and diabase dykes form minor lithological components.

The field bin leachate sample results are compared to the Metal Mining Effluent Regulations (MMER) – Schedule 4, and to maximum Canadian Council of Ministers of the Environment (CCME) water quality guidelines for the protection of aquatic life (CCME, 2007). Results are compared to these guidelines for evaluation purposes only and are used to identify potential parameters of concern since these guidelines do no directly apply to field bin leachate.

During sampling, a duplicate was collected at YJ-Bin#4 and a field blank sample was also included.

For each field bin sample 3 bottles were filled:

- 1 litre plastic cold preserved (Analysis Alkalinity, Chloride by Automated Colourimetry, Conductance – water, Nitrate + Nitrite (N), Nitrite (N) by CFA, Nitrogen-Nitrate (as N), pH water, Orthophosphate by Konelab, Sulphate by Automated Colourimetry, Total Suspended Solids, Turbidity)
- 40 ml glass preserved with 1 ml 50% HCl (Analysis Mercury dissolved by CVAF), field filtered
- 120 ml plastic preserved with HNO_3 (Analysis Dissolved Metals – Hardness calculated as $CaCO_3$, Na, K, Ca, Mg, S and elements by CRC ICP-MS diss), field filtered

Table 15 shows field bin results, compared to standards. Table 16 shows Field QA/QC Results for Leachate Bin Sampling. Maxxam Laboratory Certificates of Analysis for the October 2016 sampling can be found in Appendix VII.

TABLE 15: LEACHATE BIN SAMPLE RESULTS

PARAMETER	UNITS	CCME Maximum	YJ-BIN#1 BASALT	YJ-BIN#2 UM	YJ-BIN#3 SERP	YJ-BIN#4 ANDESITE	YJ-BIN#5 DIABASE
pH			8.32	8.19	8.22	8.31	8.18
Alkalinity ($CaCO_3$)	mg/L		118	125	133	122	103
Fluoride (F)	mg/L		0.140	0.230	0.190	0.160	0.150
Chloride (Cl)	mg/L		1.3	1.9	4.3	1.5	1.3
Sulphate (SO4)	mg/L	100	2.54	2.10	3.41	11.5	180
Hardness ($CaCO_3$)	mg/L		108	121	139	125	287
Dissolved Metals							
Aluminum (Al)	µg/L	100	<3.0	<3.0	<3.0	<3.0	<3.0
Antimony (Sb)	µg/L		1.70	1.64	1.87	1.04	7.88
Arsenic (As)	µg/L	5	1.74	1.06	3.95	2.32	7.63
Barium (Ba)	µg/L		20.7	36.6	25.1	31.0	39.8
Boron (B)	µg/L		<50	<50	<50	<50	<50
Cadmium (Cd)	µg/L	0.039[a]	<0.010	<0.010	<0.010	<0.010	<0.010
Chromium (Cr)	µg/L	1[b]	9.4	158	593	23.6	1.0
Copper (Cu)	µg/L	4[c]	<0.20	<0.20	<0.20	0.23	0.73
Iron (Fe)	µg/L	300	<5.0	<5.0	<5.0	<5.0	<5.0
Lead (Pb)	µg/L	2[c]	<0.20	<0.20	<0.20	<0.20	<0.20
Manganese (Mn)	µg/L		<1.0	2.5	1.1	<1.0	<1.0
Mercury (Hg)	µg/L	.026[e]	<0.010	<0.010	<0.010	<0.010	<0.010
Molybdenum (Mo)	µg/L		2.0	3.6	3.2	7.0	237
Nickel (Ni)	µg/L	65[c]	<1.0	<1.0	2.2	<1.0	<1.0
Selenium (Se)	µg/L	1	<0.10	0.25	0.71	2.58	12.4
Silicon (Si)	µg/L		4730	6020	8040	4840	5050
Uranium (U)	µg/L		0.65	0.89	0.99	0.90	13.7
Vanadium (V)	µg/L		<5.0	<5.0	<5.0	<5.0	68.8
Calcium (Ca)	mg/L		4.92	10.7	22.6	10.1	14.8
Magnesium (Mg)	mg/L		23.1	22.8	20.1	24.2	60.6
Potassium (K)	mg/L		1.14	0.756	0.401	1.27	2.58
Sodium (Na)	mg/L		4.27	2.62	0.649	3.87	7.35
Sulphur (S)	mg/L		<3.0	<3.0	<3.0	3.8	66.0

[a] Wildlife guideline
[b] Based on pH = 7.9 and temperature = 15oC
[c] Hardness dependent guideline, based on hardness of 55 mg/L (average hardness for receiving waters from 2009-2013)
[d] Drinking water guideline

Leachate from the field bins is slightly alkaline (average pH of 8.2), consistent with the non-acid generating designation given to these materials based on Acid Base Accounting (ABA) results (see Lorax 2006, 2009). Metal concentrations in leachate from the Yellowjacket field bins do not exceed the MMER end-of-pipe guidelines. However, dissolved concentrations of sulphate (in Bin#5 diabase), Cr (in Bins#1 to 4 mafic volcanics and ultramafic rocks) and Se (Bins#4 and 5 volcanic "ore" and diabase) show exceedances of the maximum CCME guidelines. The highest Cr values of 158 and 593 µg are from the ultramafic and serpentinized ultramafic rocks which contain chromium in their matrix. The elevated Se in "ore" is 2.58 µg and in diabase is 12.4 µg. Fortunately, these two lithologies are very minor components in the geological strata of the site.

A comparison of the dissolved metals in leachate with the guidelines provides a conservative first glance at the parameters which may become a concern as the neutralization capacity of the waste rock is depleted.

Note that the guidelines are not directly applicable and are used for comparison only in order to determine the parameters of potential concern. From these results it is concluded that in slightly alkaline conditions sulphate is leaching from YJ-FB#5, Se is leaching from YJ-FB#4 and 5, and Cr is leaching from YJ-FB#2 and 3. This is consistent with previous results (Lorax, 2014). The sample from the diabase bin had an anomalously high concentration of total sulphur relative to the larger dataset for the diabase unit when it was sampled in 2009, so the results are considered as upper estimates for metal leaching. Elevated total sulphur is positively correlated with acid potential, which is typically related to higher metal leaching. Further, the diabase unit occurs as dykes and it is expected that only small quantities will be extracted during the course of mining.

FIGURE 6: Field Bins

Leachate Field Bin Sampling - Quality Assurance/Quality Control (QA/QC)

In the field, during sampling, a duplicate sample and a field blank were collected. The duplicate leachate sample was collected at YJ-BIN#4.

The results of the internal Quality Assurance/Quality Control (QA/QC) program provided by Maxxam Analytical Labs are provided in Appendix VII. The QA/QC data indicates a high level of reliability of the data.

Table 16 compares the field QA/QC results for the leachate field bin sampling.

TABLE 16: FIELD QA/QC – LEACHATE FIELD BIN SAMPLES

PARAMETER	UNITS	CCME Maximum	YJ-BIN#4 ANDESITE	FB DUPLICATE	FB BLANK
pH			8.31	8.32	5.78
Alkalinity ($CaCO_3$)	mg/L		122	123	<0.50
Fluoride (F)	mg/L		0.160	0.160	<0.010
Chloride (Cl)	mg/L		1.5	1.6	<0.50
Sulphate (SO4)	mg/L	100	11.5	11.3	<0.50
Hardness ($CaC0_3$)	mg/L		125	120	<0.50
Dissolved Metals					
Aluminum (Al)	µg/L	100	<3.0	<3.0	<3.0
Antimony (Sb)	µg/L		1.04	1.01	<0.50
Arsenic (As)	µg/L	5	2.32	2.33	<0.10
Barium (Ba)	µg/L		31.0	31.6	<1.0
Boron (B)	µg/L		<50	<50	<50
Cadmium (Cd)	µg/L	0.039[a]	<0.010	<0.010	<0.010
Chromium (Cr)	µg/L	1[b]	23.6	23.1	<1.0
Copper (Cu)	µg/L	4[c]	0.23	<0.20	<0.20
Iron (Fe)	µg/L	300	<5.0	<5.0	<5.0
Lead (Pb)	µg/L	2[c]	<0.20	<0.20	<0.20
Manganese (Mn)	µg/L		<1.0	<1.0	<1.0
Mercury (Hg)	µg/L	.026[e]	<0.010	<0.010	<0.010
Molybdenum (Mo)	µg/L		7.0	6.9	<1.0
Nickel (Ni)	µg/L	65[c]	<1.0	<1.0	<1.0
Selenium (Se)	µg/L	1	2.58	2.52	<0.10
Silicon (Si)	µg/L		4840	5200	<100
Uranium (U)	µg/L		0.90	0.91	<0.10
Vanadium (V)	µg/L		<5.0	<5.0	<5.0
Calcium (Ca)	mg/L		10.1	10.3	<0.050
Magnesium (Mg)	mg/L		24.2	23.0	<0.050
Potassium (K)	mg/L		1.27	1.20	<0.050
Sodium (Na)	mg/L		3.87	3.60	<0.050
Sulphur (S)	mg/L		3.8	3.8	<3.0

The QA/QC results for the leachate field bin water sampling show good reproducibility and sampling protocols. All parameters for the field blank are below the detection limits. Duplicate sample FB-DUP is was collected at YJ-FB#4 and shows strong correlation between all elements.

The QA/QC results for leachate sampling show good reproducibility and sampling protocols.

4.5 Water Quality Monitoring - Conclusions and Recommendations

Conclusions from the surface water quality, hydrogeology and groundwater quality, and ML/ARD monitoring are outlined below.

SURFACE WATER QUALITY

Results for the surface water quality sampling are as follows:

- No parameters exceeded the BC maximum water quality guidelines for the protection of aquatic life at PC-1, PC-5 or PC-6 in the samples collected in July and October 2016.
- The QA/QC data indicates a high level of reliability of the sampling data within this report.

GROUNDWATER QUALITY

Concentrations of several parameters are higher in the groundwater wells at the mine site compared to the upstream well (MW09-04D). It is not clear to what extent this is due to disturbance upstream of the mine site, and to what extent it may be due to the presence of the Yellowjacket Mine itself. Further groundwater sampling will help to determine the trends in the data. With the limited data available, the main potential parameter of concern appears to be dissolved Fe.

ML/ARD

The monitoring program and QA/QC program are deemed adequate to monitor ML/ARD trends at the mine site for the foreseeable future. Overall, the leachate data from the field bins indicates that sulphate, Cr, and Se are potential parameters of concern with respect to ML/ARD. It is concluded that in slightly alkaline conditions sulphate is leaching from YJ-FB#5, Se is leaching from YJ-FB#4 and 5, and Cr is leaching from YJ-FB#2 and 3. This is consistent with previous results (Lorax, 2014).

These results suggest that metal leaching potential is higher from the andesite (ore) and diabase waste rock. More sampling is required to better delineate long-term trends.

5 COST STATEMENT

Table 17 below lists the expenses of Events 5653171 & 5653174 (Appendix I) combined for a total of $324,спл.07.

TABLE 17: ITEMIZED COST STATEMENT

Exploration Work type	**Comment**	**Days**			**Totals**
Personnel (Name)* / Position	**Field Days (list actual days)**	**Days**	**Rate**	**Subtotal***	
Ian Coster/Geologist Core Logger	July 1-8, 14-25, Aug 4-31, Sep 1-30	77.5	$355.00	$27,512.50	
Reinhart Rahmdor/Geologist	June 9-30, July 1-8,14-23, Aug 2-18				
	Sep 3-15, 19-30, Oct 3-8, Jan 4-8	102.5	$275.85	$28,274.63	
Linda Dandy/Geologist	July 15,20,23,24,29,Aug 3,6,8,9,22,				
	25,31,Sep 13,16,17,19-22,29,30,				
	Oct 1-3, Nov 2,3	26	$650.00	$16,900.00	
Jim Wallis/Engineer	Mar 12-14	3	$400.00	$1,200.00	
Roger Gallagher/Core Cutter	Aug 4-16	13	$225.00	$2,925.00	
Daniel Connolly/Labour	July 10-29	20	$340.00	$6,800.00	
				$83,612.13	**$83,612.13**
Office Studies	**List Personnel (note - Office only, do not include field days**				
General research	Reinhart Rahmdor	2.0	$275.30	$550.60	
Report preparation	Linda Dandy	5.5	$650.00	$3,575.00	
				$4,125.60	**$4,125.60**
Geochemical Surveying	**Number of Samples**	**No.**	**Rate**	**Subtotal**	
Drill (cuttings, core, etc.)	338	338.0	$26.34	$8,902.92	
Water		34.0	$309.62	$10,527.08	
				$19,430.00	**$19,430.00**
Drilling	**No. of Holes, Size of Core and Metres**	**No.**	**Rate**	**Subtotal**	
Diamond		635.7	$294.43	$187,154.43	
Supplies (core boxes, mud, etc)		1.0	$7,935.37	$7,935.37	
				$195,089.80	**$195,089.80**
Transportation		**No.**	**Rate**	**Subtotal**	
Airfare	R. Rahmdor	2.00	$4,118.82	$8,237.64	
truck rental	monthly	3.00	$794.93	$2,384.79	
				$10,622.43	**$10,622.43**
Accommodation & Food	**Rates per month**				
Cabin and meals	3 months R&B (R. Rahmdor)	3.00	$2,213.98	$6,641.94	
				$6,641.94	**$6,641.94**
Miscellaneous					
Field Supplies	sample bags, fuel, etc	1.00	$5,881.05	$5,878.18	
				$5,878.18	**$5,878.18**
Equipment Rentals					
Rock saw	monthly	1.00	$1,060.00	$1,060.00	
				$1,060.00	**$1,060.00**
TOTAL Expenditures					**$326,460.07**

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Appendix I

Filing of Work Statements

Appendix II

Statement of Qualifications

Statement of Qualifications – Marthe Archambault

I, Marthe Archambault, hereby certify that:

- I am a geologist with offices at #1601-13880 101st Avenue, Surrey, BC, V3T 5T1.
- I am a graduate of the University of Montreal with a bachelor's degree in geology (1980) and of the University of British Columbia with a Master's degree in exploration geology (1985).
- I am a member of the Association of Professional Engineers and Geoscientists of British Columbia (Registration No: 19226).
- I have practiced my profession in Canada and internationally since graduation.
- I am a co-author of this report on behalf of African Queen Mines Ltd.

September 09, 2017

"Marthe Archambault"

Marthe Archambault, M.Sc., P. Geo.

STATEMENT OF QUALIFICATIONS

I, Linda Dandy, hereby certify that:

1. I am an independent Consulting Geologist having an office at 4900 Warm Bay Road, Atlin, British Columbia, V0W 1A0.

2. I am a graduate of the University of British Columbia with the degree of Bachelor of Science in Geology (1981).

3. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia (Registration No. 19236) and a Fellow of the Geological Association of Canada (Membership No. F5201).

4. I have practiced my profession in North America since 1981, having worked as an employee and consultant for Major Mining Corporations and Junior Resource Companies and Government.

5. This report is based upon a personal examination of available company and government reports pertinent to the subject property and direct supervision of exploration and development programs on the property from 2004 to 2009 (for Muskox Minerals Ltd. and Prize Mining Ltd.), and an advisory role in 2016 (for African Queen Mines Ltd).

"Linda Dandy"

September 6, 2017
Atlin, BC

Linda Dandy, P.Geo.
Consulting Geologist

Appendix III

Diamond Drill Logs with Gold Results

UTM Easting:	582189 (+/-6m)	Azimuth:	340°	Date Started:	July 20, 2016
UTM Northing:	6607320 (+/-6m)	Dip:	-55	Date Finished:	July 24, 2016
Elevation:	872m (approx.)	Hole Length:	102.41m	Date Logged:	July 23-28, 2016
		Core Size:	HQ	Logged by:	Ian Coster

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	NTERVAL	Au
m	m						%		m	m	m	ppb
0	3.05	CASING		CASING								
3.05	15.07	Serpentinite	2a	Dark blue-green color, near massive where not fract'd; moderately magnetic. Dark orange mottled/stringy 10% of the fe-carb alt'd primary minerals; *surface oxidized to approx 13m. 5.18-7.00 - Core-loss probably due to drill-wash of fault gouge. Becomin talcose assoc. with narrow, gougy shears at 10.50, 11.13, 14.10 7.00 - 8.13 - Faulted/brecciated, with 50% greenish-brown clay-chlorite gouge supporting 50% angular fe-oxid serpentinite frags; angles to CA unclear due to loss core. 8.23 - 10.00 - Redrilled rubble from higher up (?) not sampled 10.00 - 14.15 - Much broken, surface oxid. core	65	Fe-carb	minor <3% irreg. <2mm @ 0-30° to CA	1542001 1542002 NS 1542003 NS 1542004 1542005 1542006 1542007	3.05 3.80 5.18 6.80 8.23 10.00 11.13 12.57 13.57	3.80 5.18 6.80 8.23 10.00 11.13 12.57 13.57 15.07	0.75 1.38 1.62 1.43 1.77 1.13 1.44 1.00 1.50	5.3 <0.5 NS 4.1 NS 54.0 8.0 5.3 4.8
15.07	16.82	Andesite	9a	Med to dk grey-green color, fine grained, equigranular, aphanitic for 8cm, chill contact (@30° to CA?); rare subangl. Frags to 30mm (autobreccia?); wk		Wk Fe-bleached rare patches	As above, weaker	1542008 1542009	15.07 16.00	16.00 16.82	0.93 0.82	<0.5 <0.5
16.82	20.84	Serpentinite	2a	as 3.05 - 15.07m, generally crushe & weakly brecciated, centered around bx-gouge at 17.20 - 18.35 and 19.6 - 19.82m @ 65° to CA Variable lower contact @ 40° to CA	65 40	Fe-oxide	10% qtz as 1-2mm knots & str @35-50° to CA qtv +/- carb	1542010 1542011 1542013 1542014	16.82 17.66 18.32 19.82	17.66 18.32 19.82 20.84	0.84 0.66 1.50 1.02	9.9 15.0 70.4 108.4
20.48	23.24	Lamprophyre	11	dark greenbrown, very soft, intensely chloritic after primary biotite (?); equigranular; sheared & crumbly sandy texture, crumbly & easily washe away - 59% core loss lower contact sharp @ 70° to CA		chlorite		1542015	20.84	23.24	2.40	9.9
23.24	26.01	Serpentinite	3ab - 2a	similar to 16.82 - 20.84 but stronger Mg with talcy slips & veining is qtz-cb (wk fizz); traces specks fuchsite mod to strong Fe-carb alt'n as anasomozing streaks / blebs		Fe-Mg-talc	1-3mm qtz-carb stringers	1542016 1542017	23.24 24.13	24.13 25.01	0.89 0.88	7.5 8.9

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	NTERVAL	Au
m	m						%		m	m	m	ppb
23.24	26.01	Serpentinite	3ab - 2a	moderate to wkly sheared @ 35° to CA with most qtz-carb vnlets following shearing 25.03 - 26.01 - very swirly-texture & sheared, with rounded clast breccia & irregular blob of incorp. Dark green-grey probable andesite. Sharp sheared contact @ 50° to CA	35 50	Fe-Mg-talc	10% as 1-3mm qtz-carb stringers	1542019 1542020	25.01 26.01	26.01 27.01	1.00 1.00	12.0 15.8
26.01	28.22	Diabase	4	or Andesite ? (9b) - probable fine to med grained & equigranular; dark green-grey color; shows wk ghost autobreccia. Sharp lower contact @ 30° to CA	 30	Wk Fe-carb on fractures	<2% qtz-carb crackle fract's	1542021	27.01	28.22	1.21	6.5
28.22	28.92	Serpentinite	3ab	very similar to 25.03 - 26.01m, swirly & sheared 28.4 - 28.6 fault gouge	~~~	Fe-Mg-talc	5% qtz-carb vnlts	1542022	28.22	28.92	0.70	2.6
28.92	30.55	Andesite	9b	aphanitic to vfg, dk green-grey colored to dk-tan where bleached; crackle-fracturing causing tan bleaching.		bleached	2% hairline qtz str	1542023 1542024	28.92 29.90	29.90 30.55	0.98 0.65	1.5 10.7
30.55	31.60	Serpentinite	3ab	very similar to 28.22 - 28.92; brecciated/sheared at both contacts 10% qtz >> carb vnlts approx 60° to CA Sharp lower contact @ 85° to CA		Fe-Mg-carb	5% qtz-carb vnlts 1-3mm	1542025	30.55	31.60	1.05	77.6
31.60	33.19	Diabase	4	med grained, equigranular & massive; non-magnetic med-dk grey-green; virtually no veinlets lower contact lost in shear	 ~~~	Wk chl-hem perv.	traces qtz-carb stringers w hem	1542027 1542028	31.60 32.40	32.40 33.19	0.80 0.79	6.4 5.6
33.19	34.35	Serpentinite	3ab	talcose slps & swirly qtz-carb 1-4mm stringers @ 65o to CA similar to 30.55 - 31.60 contact lost in shear, possibly 85° to CA		Fe-Mg carb	5-10% qtz-carb vnlts	1542029	33.19	34.35	1.16	34.1
34.35	36.11	Diabase	4	very similar to 31.6 - 33.14, med grained, equigranular & massive broken, klocky core; traces (2/m) hairline to 1mm qtz-carb stringers lower contact sharp @85° to CA		Wk chl-hem perv.	traces qtz-carb stringers	1542030 1542031	34.35 35.23	35.23 36.11	0.88 0.88	19.1 4.2
36.11	38.29	Serpentinite	3ab	higher degree of Fe-Mg alt'n than above units & rolled/brecciated general fabric of swirly texture @ 0-65° to CA with 1-4mm qtz >>carb knots & veinlets parallel, traces fuchsite within qtz veinlets & traces cg magnesite lower contact irregular & sharp @ 70° to CA	~~~ ~~~ ~~~	Fe-Mg carb, tr. Fuchsite	5-10% qtz-carb vlets, tr. Vfg py	1542032 1542033	36.11 37.11	37.11 38.29	1.00 1.18	21.2 75.4
38.29	48.51	Andesite	9b	dark green colored, fine (to med) grained equigranular & generally massive; upper 30cm is aphanitic chill, moderately pervasively silicified & bleached with minor dark quarz crackle. Fractures with predominant	fract'd at 25° to	Chl-Carb	as next page	1542034 1542035	38.29 39.79	39.79 41.29	1.50 1.50	3.6 2.4

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	NTERVAL	Au
m	m						%		m	m	m	ppb
38.29	48.51	Andesite	9b	orientation of 20°, 80° to CA occasional shows ghost autobreccia (?) textures 41.0 - 42.00 broken core 48.2 - 48.51 chilled, aphanitic & hosts 15% subrounded, partially resorbed clasts. Contact knife sharp @ 60° to CA	broken core	Chl-Carb	traces hairline qtz>>carb crackles & fract fills, tr vfg py - bleached envelopes	1542036 1542037 1542039 1542040 1542041	41.29 42.79 44.29 45.79 47.29	42.79 44.29 45.79 47.29 48.51	1.50 1.50 1.50 1.50 1.22	8.5 5.3 2.6 1.3 3.9
48.51	49.21	Listwanite	3c	strong quartz-fuchsite banding; tr-1/2% py, possible 3 v fg **visible gold**; euhedral magnetite.		strong qtz-fuchsite	15% qtz, tr py, 3 specs VG	1542042	48.51	49.21	0.70	20.5
49.21	54.34	Serpentinite	3ab	upper contact grades over 5cm with distinct lack of fuchsite & less veinlets 50.35 - 50.68, 50.90 - 51.05, 51.28 - 51.34 are narrow "sections" of dark green, crackle fract'd andesite @ 55-65° to CA serpentinite is mottled with darker green 1-3mm mottles in weak swirly textured, med green-grey matrix of magnesite & talk & white Fe-carb. generally massive & well indurated. gradational contact over 5cm with fuchsite appearance.		Mg>Fe talc	5% qtz-carb stringers	1542044 1542045 1542046 1542047	49.21 50.35 51.34 52.84	50.35 51.34 52.84 54.34	1.14 0.99 1.50 1.50	17.9 2.5 24.8 16.0
54.34	55.51	Listwanite	3c	lower intensity listw or higher intensit Mg-Fe serpentinite barren-looking QV's at 54.65 (2cm), 54.87 (6cm), 55.01(5cm)		as above & fuchsite	15% qtz veins	1542048	54.34	55.51	1.17	42.3
55.51	56.48	Andesite	9b	dark green, fine grained, ghost autobrecia texture crackle fract & veinlets <1mm to 2mm, traces of cubic py. sharp chilled contact @ 55° to CA		wk bleaching, chl	2% crackle frac & vlets	1542049	55.51	56.48	0.97	5.1
56.48	64.30	Serpentinite	2	upper 50cm is Mg-Fe carb altered, then grades to: variably medium to dark bluish green, variably weakly swirly & mottled, moderately to stringly magnetic, cut by highly irregular magnesite +/- qtz stringers; no sulphides; appears crudely brecciated/rolled in places with subrounded fragments up to 3cm. 61.0 - 61.16 is banded & brecciated qtz-carb vein @45° to CA gradational contact over 20cm		weak Mg-Fe talcose	2-3% magnesite > qtz stringers	1542050 1542051 1542053 1542054 1542055 1542056	56.48 57.50 59.00 60.50 62.00 63.50	57.50 59.00 60.50 62.00 63.50 64.30	1.02 1.50 1.50 1.50 1.50 0.80	10.4 2.1 <0.5 1.5 2.8 1.1

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	NTERVAL	Au
m	m						%		m	m	m	ppb
64.30	68.20	Serpentinite	3ab	and Listwanite (3c) -64.75 - 65.60m the usual Mg-Fe altered serpentinite, med-lt grey green colored, showing weak brecciated/rolled frag texture. 64.75 - 65.6 is highly silicified & contains fuchsite & hosts ~20% white qtz>>carb vnlts @70-90° to CA, ranging 1-20mm wide, hosts tr vfg py & 1/2% cg euhedral magnetite from 65.60 - 66.78 - core is sheared, brecciated & crushed, verychloritic & swirly with magnesite vnlts along swirls gradational contact over 20cm	~~~	strong Mg-Fe talcose	as above 20% qtz-carb vnlts 2-3% magnesite > qtz vnlts 5% magnesite-qtz vnlts	1542057 1542058 1542059	64.30 65.80 66.78	65.80 66.78 68.20	1.50 0.98 1.42	967.2 3.4 36.3
68.20	69.50	Serpentinite	2	very similar to 56.48 - 64.30 gradational contact over 5cm with fuchsite appearance.		weak Mg-Fe talcose	2-3% magnesite > qtz vnlts	1542060	68.20	69.50	1.30	16.5
69.50	73.83	Serpentinite	3bc	and Listwanite (3c) essentially as the mix from 64.3 - 68.20 from 70.16 - 72.24 is fault zone cansisting of fault breccia (35% sub-angular to sub-rounded), rolled frags of serp + qtz with 90% clay gouge from 70.? - 71.25m; core angles sporadically 50-70° to CA from 71.25 - 72.24 highly crushed/aulted, dark green, intensely chloritic most of core, less from ower end ofthis siction (probably andesite?) & brecciated (protolith suspect) Listwanite (qtz-fuchsite) as fragments in fault breccia & from 72.24 - 73.83, hosts traces py. 73.60 - 73.83 is fault breccia & 6cm clayey gouge @ 65° to CA; contact abrupt & irregular	50-70 ~~~ ~~~	strong Mg-Fe talcose, sections w qtz +/- fuchsite, locally bleached	5-10% qtz-mags vnlts,tr. Py	1542061 1542062 1542063 1542064 1542065	69.50 70.50 71.25 72.24 73.22	70.50 71.25 72.24 73.22 73.83	1.00 0.75 0.99 0.98 0.61	157.6 11.8 82.4 352.1 48.9
73.83	83.70	Andesite	9b	upper 15cm aphanitic-chilled & bleached med-tan color generally is dark green, fine grained, equigranular & massive, occasionally showing weak ghost autobreccia texture. veinlets of qtz > carb that have tan colored bleached envelopes (as well as the <1mm ones… total 2%) at: 74.25 - 6mm @80° 74.50 - 10mm @ 75° 74.93 - 5mm @ 50° 76.35 - 10mm @ 55° 76.64 - 10mm @ 55°	chaotic fract.	locally weakly bleached	2% vnts qtz-carb +/- py, tr cpy	1542066 1542068 1542069 1542071 1542072 1542073 1542074 1542075	73.83 75.00 76.00 77.20 78.40 79.75 80.72 82.22	75.00 76.00 77.20 78.40 79.75 80.72 82.22 83.70	1.17 1.00 1.20 1.20 1.35 0.97 1.50 1.48	26.6 26.2 90.0 587.9 6.2 407.3 1.4 0.7

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	NTERVAL	Au
m	m						%		m	m	m	ppb
73.83	83.7	Andesite	9b	77.20 - 78.40 volcanic bleached (sil-carb) to med grey-tan color & cv by similar veinlets (1-2mm) as above, as well as a 2cm wide vnlt at 77.90 - qtz>carb hosting 20% volumetric vfg py, tr cpy as vein selvage; vein @45° to CA *77 - 79 * very black core, "strange" recoveries, footage-blocks positions* 79.75 - 80.72 is med grey-tan bleached section as above, and showing jigsaw brecciated volc healed by g white qtz >> carb vnlts @ 75o to CA - frags & wall envelopes hosts 5% volume fg & cubic py + traces cpy. 80.72 - 83.70 - comparitively very weakly altered andesite with 1% hairline to 1mm qtz>carb stringers *calcite gasheds & veinlets becoming more prominent.	blocky & fract'd	locally weakly bleached weak calcite	1-2% qtz-carb vnlts 1% calcite					
83.70	83.86	No recovery		CAVE - pulled rods; rubbly foreign material - not sampled								
83.86	93.68	Andesite	9b	83.86 - 86.10 comparatively very weakly altered andesite, very little qtz veining, now predominantly calcite gashes and stringers. 86.10 - 87.46 volc is tan-bleached section similar to 79.75 - 80.72, with jigsaw qtz>>carb healed vnlt area at 86.35 @80° to CA & 87.20, both with pyritic envelopes. 87.46 - 93.68 comparitively very weakl altered andesite, very little quartz veining, now predominantly calcite gashes & irregular stringers.		weak calcite	1% calcite	1542076 1542077 1542078 1542079 1542080	83.86 85.16 86.10 87.46 88.96	85.16 86.10 87.46 88.96 90.46	1.30 0.94 1.36 1.50 1.50	<0.5 <0.5 136.1 <0.5 25.4
93.68	93.90	No recovery										
93.90	94.00	Fault		is 10cm of fault gouge/crush, core angles destroyed by wash.	~~~							
94.00	102.41	Andesite	9b	dark green colored, near massive, ine grained & equigranular, some local (<1m) areas show a ghost autobrecciated (?) texture; blocky fractured & shows ~1% calcite as gash-fills & stringers; rare <20cm section of very weak bleaching with rare 1-2mm quartz-carb stringer, virtually zero sulphide evident. 101.3 - 102.41 -much crumbly broken/fractured core. 102.41 - END OF HOLE	~~~	weak calcite very weak bleaching locally	1% calcite & minor qtz-carb stringers					

UTM Easting:	582189 (+/-6m)	Azimuth:	340°	Date Started:	July 24, 2016
UTM Northing:	6607320 (+/-6m)	Dip:	-75	Date Finished:	July 30, 2016
Elevation:	872m (approx.)	Hole Length:	164.44m	Date Logged:	July 28-Aug. 3, 2016
		Core Size:	HQ	Logged by:	Ian Coster

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	NTERVAL	Au
m	m						%		m	m	m	ppb
0.00	3.05	CASING		CASING								
3.05	8.84	Serpentinite	3a	Dark blue-green color, near massive where not fractured; moderatey magnetic; Dark orange mottled/stringy with 10% Fe-carb alt'd primary minerals *surface oxidized throughout to ~16m. crude fabric to fe-carb stained swirls & fractures 50-70° to CA 8.02 - 8.84 is fault zone with increasing brecciated and crush with true clayey gouge from 8.55 - 8.84m	~~~	Fe-carb	minor <3% irreg. <2mm magnesite-Fe-carb	1542501 1542502 1542503 1542504 1542505	3.05 4.55 6.05 7.05 8.02	4.55 6.05 7.05 8.02 8.84	1.50 1.50 1.00 0.97 0.82	11.8 18.1 0.6 22.3 12.4
8.84	11.00	Diorite	7	equiv. to Andesite (9b) or (9a) med grey-green colored variably fine to more commonly med grained feldspathic/mafic matrix, hosting 8-10% subhedral hornblende phenos to 2mm 8.84 - 11.00 poor recoveries in highly fractured & blocky Sheared lower contact, lost in poor recovery	~~~	weakly silic. & carb.	traces mg-carb stringers	1542506 1542507	8.84 9.92	9.92 11	1.08 1.08	2.2 1.4
11.00	15.95	Serpentinite	3a	essentially as 3.05 - 8.84 crude fabric at 30-50° to CA; with clots & spider-web fabric of Fe-carb 14.37 - 14.75 is thin wedge of dark-green, fine-gr. Andesite, upper contact weekly sheared @70° to CA, lower contact weakly sheared at 50° to CA contact sharp & weakly faulted with 3cm clay gouge @ 55° to CA	blocky rusty fract's ~~~ 55°	Fe-(Mg)-carb	minor <3% irreg. <2mm magnesite-Fe-carb vnlts	1542508 1542509 1542510 1542511	11.00 12.50 14.00 15.00	12.50 14.00 15.00 15.95	1.50 1.50 1.00 0.95	16.0 14.2 2.8 1.2
15.95	23.58	Andesite	9b	dark grey-green colored, fine grained and generally massive, variably fractured & crackled/gashes of Fe (Mg) carb < or equal 2mm 18.50 - 23.58 is very broken core - blocky ground with much core loss - with crush/gougey 1-3cm shears running near parallel to CA, and an increase to 5% of Fe (Mg) carb veinlets & chaotic gashes sharp contact, lost in fault/crush	weakly sheared	Fe-(Mg) carb (wk-mod)	minor <2%, <2mm Fe-Mg-carb stringers increasing to 5%	1542513 1542514 1542515 1542516 1542517 1542519	15.95 17.45 18.50 20.00 21.00 22.08	17.45 18.50 20.00 21.00 22.08 23.58	1.50 1.05 1.50 1.00 1.08 1.50	3.1 8.0 <0.5 <0.5 6.2 22.2
23.58	27.92	Serpentinite	3ab	higher degree of alteration (Fe & Mg carb)	fault	Mg-Fe	1% Fe-Mg					

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	NTERVAL	Au
m	m						%		m	m	m	ppb
23.58	27.92	Serpentinite	3ab	23.58 - 25.83 core is crudely brecciated and sheared throughout, with 3-5cm crush/gouge sections supporting sub-angular breccia clasts up to 4cm of 3ab & minor qtz-carb veinlets. true gouge at 24.00 (45° to CA), 25.20 - 25.83 increase in Fe-carb alt'n from 26.20 - 27.92 sharp contact lost in broken core, probably @70° to CA	crush fault breccia	Mg-Fe pervasive	1% Fe-Mg carb stringers	1542520 1542521 1542522	23.58 24.92 26.42	24.92 26.42 27.92	1.34 1.50 1.50	32.0 5.7 10.6
27.92	34.30	Diorite	7	or Diabase (?) (4) med-dark green grey colored, fine-medium grained & weakly porphyriti with up to 10% subhedral hornblende phenos <2mm in feldspathic-mafics matrix *very broken/blocky core throughout this unit, highly fractured & brittle with clay-chlorite coated fractures & evidence o weak crush/shears in broken core sharp contact at 80° to CA	highly fract'd	weak perv. Silic'n	<1% Fe-Mg strings	1542523 1542525 1542526 1542527 1542528	27.92 29.42 30.92 31.92 32.80	29.42 30.92 31.92 32.80 34.30	1.50 1.50 1.00 0.88 1.50	1.1 4.0 4.1 3.3 3.4
34.30	40.55	Serpentinite	3ab	34.30 - 36.08 is predominantly Fe-carb'd (orange) deformed swirly textured serpentinite, with a rolled, brecciated texture 36.08 - 40.55 unit is med to light green greycolored, deformed/rolle, crudely breciated serpentinite; mod-strong Mg (Fe) carb alt'd throughout; weakly listwanitic in areas o increased quartz (carb) veinlets, that host traces of vfg py (anhedral) @ 37.30 - 37.90 and 40.00 - 40.61 majority of the qtz-carb veinlets <8mm, but there is a 8cm vein at 37.50m. Most veinlets at 80° to CA contact sharp at 80° to CA, weakly sheared	swirly wk shr	Fe carb Fe-Mg carb (fuchsite) Fe-Mg carb	1-2% qtz-carb vnlts & knots (chaotic) w tr vfg py 1-3% qtz-carb vnlts & knots	1542529 1542530 1542531 1542532 1542533	34.30 35.80 37.30 38.80 39.55	35.80 37.30 38.80 39.55 40.55	1.50 1.50 1.50 0.75 1.00	23.3 9.3 214.7 55.5 104.5
40.55	46.89	Andesite	9b	41.84 - 42.15 is irregular blob of listwanitic serpentinite w 5% irreg. barren looking qtz (carb) stringers 1-4mm Andesite is med-pale tan-green colored fg volc, variably crackle & jigsaw brecciated & healed by up to 5% white qtz (carb) veinlets, chaotic and/or @40-60° to CA; traces to 1/2% sub-euhedral py, predom. in volcanic rock, some in qtz. 43.00 - 46.89 andesite is only weaky bleached and darker green colored, still crackle fractured and chaotically veinletted Much core loss at start of run in sample 1542539 sharp weakly sheared contact @ 50° to CA	variably brecc'd crackled fract'd	bleached qtz-carb weakly bleached	1-2% qtz-carb gashes & chaotic stringers (locally 5%)	1542534 1542535 1542536 1542538 1542539	40.55 41.84 43.34 44.84 45.89	41.84 43.34 44.84 45.89 46.89	1.29 1.50 1.50 1.05 1.00	30.3 118.8 <0.5 <0.5 7.2
46.89	49.70	Serpentinite	3ab	and Listwanite (3c) strong qtz-fuchs (listwanite) to 47.70 & lower 30cm	swirly	Mg-(Fe) carb; silicified	10% qtz-carb	1542540	46.89	48.20	1.31	20.2

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	NTERVAL	Au
m	m						%		m	m	m	ppb
46.89	49.70	Serpentinite	3ab	swirly textured, rolle & crudely brecciated with qtz veinlets also as angular fragments; traces to locally 1% vfg pyrite highly irreg., strongly fe-carb alt'd contact	swirly	Mg-(Fe) carb; silicified	10% qtz-carb	1542541	48.20	49.70	1.50	13.5
49.70	54.90	Andesite	9b	brecciated & tan-buff colored strongly bleached to 51.90, hosting 1-2% vfg py, sheared @30° to CA 51.90 - 52.90 is approx 50% qtz veins with fuchsite at ~30-35o to CA; veins show multiple brecciation, are white to grey colored, host traces vfg py & 1/2% cg magnetite	breccia	Mg-Fe carb'd; silic'd	5-10% qtz-carb	1542543	49.70	51.00	1.30	1970.9
								1542544	51.00	52.00	1.00	867.8
				52.9 - 54.9 is med-dk grey colored, only weakly bleached & crackle-fractured & veinletted; alteration & veinlets increase from 54.50 down contact knife sharp @ 75° to CA	crackle fract'd	weak bleach, silic.	2% qtz-carb	1542545	52.00	53.50	1.50	107.2
								1542546	53.50	54.90	1.40	182.4
54.90	74.49	Serpentinite	3ab	54.90 - 71.93 is med grey-green colored with 25% dark green mottled, swirly textured, mod-strongly Mg-carb (minor e-carb) alt'd serpentinite hosting 1-2% irreg qtz-carb veinlets (1-6mm) 55.80 - 56.03 is highly irreg. blob of incorporated med-grey tan colored volcanic 59.00 - 59.08 is irregular incorporated blob of mafic volcanic, weakly bleached; weak shear at 59.80	swirly		2% qtz-carb	1542547	54.90	56.40	1.50	35.6
								1542548	56.40	57.90	1.50	10.1
								1542549	57.90	59.40	1.50	12.6
				59.80 - 60.25 shows several episodes of qtz-carb veinlets (@10° displacing 65° to CA) - hosts 5 pinhead size pieces of **visible gold** (?!) in qtz vein with euhedral py; several other pinhead size **gold** pieces at 60.52 in a 2cm lensy bleached fragment oriented 30° te CA	weak shear ~~~	Mg-Fe carb perv.	25% qtz-carb; several spec of VG	1542550	59.40	60.90	1.50	15.5
				60.50 - 60.90 is strong qtz-fuchs (list.) section with 25% qtz at 60° to CA 61.33 - 61.45 irreg. incorp'd blob of tan colored bleached volcanic that dams cross-cutting qtz-carb veinlets 62.16 - 62.28 irreg. incorp'd blob of dark green volc onl wekly bleached ~64.0 - 71.70 the degree of pervasive Mg (Fe) carb alt'n is lower, with serpentinite showing a med to dk green color. to 71.70 weak to mod (small <15mm) pervasive Mg-carb & talose along chaotic fractures as well	swirly	increasing talc fract & seams	1% qtz-talc-carb strings	1542551	60.90	62.40	1.50	1.4
								1542553	62.40	63.90	1.50	3.5
								1542554	63.90	65.40	1.50	19.9
								1542555	65.40	66.90	1.50	66.7
				68.90 - 69.20 weak crumbly shear hosting 1% cubic py at 60° (?) to CA 70.50 & 70.93 are narrow, dark green incorporated blobs of very soft & talcy w 15% zeolites ? Ass. 1-2mm fractures (rnd)	weak shear	weak-mod perv. Mg-talc	1% qtz-Mg-carb-talc strings	1542556	66.90	68.40	1.50	0.7
								1542557	68.40	69.90	1.50	<0.5
								1542558	69.90	71.40	1.50	<0.5
				71.93 - 74.49 alteration increasing with 5-8% chaotic qtz-carb +/- fuchsite; true listwanite from 71.93 - 73.05 showing angular brecciation and multiple chaotic episodes of veinletting (no predom. orientation) with veinlet <10mm	swirly & brecc'd	Mg-Fe carb	5-8% qtz-carb listw.	1542559	71.40	72.40	1.00	178.4
								1542560	72.40	73.40	1.00	131.3

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	NTERVAL	Au
m	m						%		m	m	m	ppb
54.90	74.49	Serpentinite	3ab	chaotic episodes of veinletting (no predom. orientation) with veinlet <10mm wide; hosts traces vfg py. highly irregular, swirly contact avg 35° to CA	swirly & brecc'd	Mg-Fe carb; silic'd w fuchs.	5-8% qtz-carb listw.	1542561	73.40	74.49	1.09	2435.3
74.49	85.23	Andesite	9b	74.49 - 76.45 is strongly bleached-silicified fg volcanic showing a swirly & shredded crudely brecciated texture (along chill?) at 40-60° to CA; hosts 2% qtz-carb veinlets to 4mm that bleach wallrock, generally @ 55-80° to CA; 75.29 - 75.42 true jigsaw breccia w angular altered fragments healed by qtz-carb flooding (tr. py) 76.45 - 85.23 andesite is relatively unaltered, (local exceptions noted); med to dark green colored, variably fine to med grained & ranging to medium grained & weakly plag porphyritic volcanic 77.30 is 20mm qtz-carb vein @50° to CA (w bleached envelope) 78.93-79.14 is jigsaw breccia healed by qtz-carb @45° to CA 81.14 is a 2cm qtz carb vn@40° to CA that has bleached & pyritized envelopes & py in vn. 82.31 is vn as above @35° to CA 83.50 - 84.40 volcanic is medium grained & sub-porphyritic with 30% subhedral feldspar to 2mm sharp contact at 70° to CA	mod chaotic fract'd	strong bleach'd silic'd weak chl Mg carb	2% qtz-carb vnlts 1% carb-qtz vnlts	1542562 1542563 1542564 1542565 1542566 1542568 1542569 1542571	74.49 75.49 76.99 78.19 79.69 81.19 82.69 84.19	75.49 76.99 78.19 79.69 81.19 82.69 84.19 85.23	1.00 1.50 1.20 1.50 1.50 1.50 1.50 1.04	258.6 311.5 82.8 63.1 165.8 87.0 1.5 <0.5
85.23	87.39	Serpentinite	3ab	and Listwanite (3c) may encorp strongly bleached & silicified & 2-3% py to 85.45 (andesite?) UM is swirly textured, crudely brecciated & rehealed with qtz-carb-fuchs particularly at 86.10 - 87.05; hosts irreg. frags of bleached & pyritic volcanic low contact lost in broken core but sheeted banding @ 70° to CA	swirly & crudely brecc'd	Mg-Fe carb + qtz + fuchs	5% qtz-carb strings	1542572 1542573	85.23 86.23	86.23 87.39	1.00 1.16	723.7 52.5
87.39	100.30	Diabase	4	or Andesite (9b) medium to dark grey green colored, fine to predom. medium grained & equigranular to subporphyritic with up to 30% as subhedral feldspars to 2mm, gradual changes in grain size throughout. weakly bleached & veinleted to 87.60 & weakly veinleted to 89.10 * minor hematite along some fractures 92.75 - 93.85 rock isstrongly bleached tan-buff color and silicified & very fine grained, swirly evidence of crush/gouge shear/fault at 93.10 - 93.30, orientation destroyed by broken core	mod chaotic fract'd ~~~ mod chaotic fract'd	wk chl-Mg-carb bleached wk chl-Mg-carb	<1% qtz-carb vnlets 3% <1% qtz-Mg-carb stringers	1542574 1542575 1542576 1542577 1542578 1542579	87.39 88.89 90.39 91.89 92.70 94.05	88.89 90.39 91.89 92.70 94.05 95.55	1.50 1.50 1.50 0.81 1.35 1.50	41.2 10.1 7.9 10.0 15.3 <0.5

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	INTERVAL	Au
m	m						%		m	m	m	ppb
87.39	100.30	Diabase	4	much broken core & lower recoveries from 92.50 - 98.50 96.00 - 97.30 is 2-3% chaotic oriented Mg-carb/qtz stringers weakly sheared from 99.50 - 99.90 contact fuzzy-irregular @~60° to CA, lower 30cm mod. Bleached	broken blocky fract'd weakly sheared	wk chl-Mg-carb bleached	<1% qtz-Mg-carb stringers	1542580 1542581 1542582 1542583	95.55 97.05 98.55 99.55	97.05 98.55 99.55 100.30	1.50 1.50 1.00 0.75	0.6 5.2 14.2 10.7
100.30	104.65	Serpentinite	3ab	100.30 - 102.40 is swirly textured, well mottled, moderately Mg (Fe) carb'd pervasive, with 1-2% irreg-oriented carb +/- qtz stringers 102.40 - 103.48 fault zone consisting of gouge @65° to CA supported fault breccia hosting sub angular to near rounded clasts of mainly qtz (to 102.72), mainly bleached andesite (to 103.30); from 103.30 - 103.48 is sheared slabs of bleached andesite & sheared qtz/carb strings oriented @35-70° to CA 103.48 - 104.65 is swirly textured, crudely brecc'd/rolled, well mottled, mod-str Mg-carb alt'd, 3-4% qtz-carb-fuchs <1mm strings lower contact obliterated in strong shear or fault (lost core here)	swirly ~~~ fault zone ~~~ swirly	mod Mg-carb clay-chl gouge &qtz-carb strong Mg-carb	1-2% carb +/- qtz 5% carb +/- qtz 3-4% chaotic stringers	1542584 1542585 1542586 1542587	100.30 101.40 102.40 103.48	101.40 102.40 103.48 104.65	1.10 1.00 1.08 1.17	15.1 6.4 >10000.0 117.0
104.65	110.40	Andesite	9b	104.65 - 106.56 is fault zone consisting of melange of subangular to subrounded moderately bleached med gr. andesite, a large section of listwanite (105.93 - 106.21) and 30% gouge, particularly at 105.70, 106.20, 106.40 @ 65-70° to CA ** 104.48 105.85 considerable core loss (58%), effects sample 1542588 106.56 - 110.40 strongly bleached, pyritized & with myriad chaotic qtz-car stringers <5mm; pyrite content 2-4% variable, as <2mm subhedral to cubes, in both the bleached andesite, as well as in the chaotic stringers 107.90 - 109.22 core is sheared/crushed/brecciated with no true gouge, showing shear fabric @ 50-60° to CA sharp weakly sheared contact @ 55° to CA	fault zone well fract'd & vnlt'd shear & crush	strong bleach'd silic'd	5-7% chaotic stringers 2-4% py	1542588 1542589 1542590 1542592 1542593	104.65 105.85 106.56 107.80 109.22	105.85 106.56 107.80 109.22 110.40	1.20 0.71 1.24 1.42 1.18	57.4 197.0 1173.9 878.7 351.5
110.40	132.82	Serpentinite	3ab	light to med grey-green color crudely mottled and occasionally showing crude breccia-rolled appearance; pervasively Mg (Fe) carb alt'd with minor fuchsitic envelopes around <15mm qtz-carb veinlets (111.44, 112-114 running up core) thin (<4mm) crush/gouge zones at 110.90, 111.30, 111.90 114.88 - 115.22 is fault/crush/breccia zone, well indurated, orientation not evident, possibly 30-50° to CA 115.85 - 116.05 is dark green volcanic (?) blob incorporated, that has more listwanitic serpentinite surrounding it 116.35 - 116.47 is qtz-carb vein at 45° to CA hosts tr vfg py	~~~ ~~~	mod Mg (Fe)-carb	2-3% discont. vnlts & strings qtz-carb 45-75° to CA	1542595 1542596 1542597 1542598 1542599	110.40 111.90 113.40 114.40 115.40	111.90 113.40 114.40 115.40 116.90	1.50 1.50 1.00 1.00 1.50	30.4 470.9 71.7 59.4 89.5

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	NTERVAL	Au
m	m						%		m	m	m	ppb
110.40	132.82	Serpentinite	3ab	weak crush/shear at 117.10 117.88 is 3cm angular dark gren UM (?) fragment 118.11 - 118.31 is dark green volcanic (?) blob incorporated that has more listwanitic (with fuchsite) below to 120.30 crushed & weakly sheared from 118.40 - 120.20 122.72 - 122.97 is dark green UM(?) blob incorporated in gougy fault breccia (to 123.06) crudely oriented at 20-50° to CA 126.80 - 127.70 is 15-20% magnesite-talc stringers/flood, no sulphides 129.20 - 129.50 is zone of gougy-crush @ 35° to CA 130.00 - 131.10 is irregular shaped dark green UM(/) blob 131.74 is 4cm irregular fragment of dark green UM (?) in weakly crushed & magnesite veinletted zone knife sharp contact @ 75° to CA (abrupt end to altered serpentinite)	~~~ ~~~ ~~~	mod Mg (Fe)-carb mod str Mg carb, clay-talc alter'n decreasing	2-3% discont. vnlts & strings qtz-carb less qtz more carb 2-3% carb +/- qtz as chaotic strings 1-2% carb +/- qtz as chaotic strings	1542600 1542601 1542602 1542603 1542604 1542605 1542606 1542607 1542608 1542609 1542610	116.90 118.40 119.90 121.40 122.90 124.40 125.90 127.40 128.90 130.40 131.74	118.40 119.90 121.40 122.90 124.40 125.90 127.40 128.90 130.40 131.74 132.82	1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.34 1.08	23.0 4.6 23.5 3.9 6.8 3.7 53.3 36.2 60.1 21.6 298.2
132.82	137.82	Serpentinite	2	and andesite (9b) Serpentinite "host" (between andesites) is med-dark green, well motted, relatively unaltered; generally weakly sheared at & around contacts with the various andesites 132.82 - 133.30 is dark green andesite, sheared throughout, lower contact sheared at 40° to CA 133.80 is 4cm magnesite vein (barren) at 45° and 70° to CA 134.23 - 134.47 dark green andesite at 40° (upper & 85° to CA 135.60 - 136.00 & 136.10 - 136.22 is weakly bleached, med-dark green 136.67 - 137.82 is dark green andesite, sheared upper contact @ 55° to CA gougy fault breccia from 137.16 - 137.34 and 137.50 - 137.82; is 40% subrounded to subangular andesite, serpentinite and vein fragments (of qtz-carb); no sulphides; med green chloritic gouge sharp brecciated-faulted contact @ 25° to CA	~~~ ~~~	weak Mg-carb, talc	1% carb-talc chaotic strings	1542611 1542613 1542614 1542615	132.82 134.23 135.60 136.67	134.23 135.60 136.67 137.82	1.41 1.37 1.07 1.15	1011.5 13.4 1.6 9.7
137.82	140.47	Fault Zone		Thrust (?) Fault zone melange intensely sheared, brecciated & gougy fault zone throughout @ generally 20-30° to CA fabric; consistsof 30% fragment as shreds & subrounded dark green serpentinite (predominantly) and palergreen talc & white fragments of magnesite +/- quartz vein	~~~ fault zone ~~~	talc + clay predom.	1% carb-talc chaotic strings	1542616	137.82	139.00	1.18	22.8

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	NTERVAL	Au
m	m						%		m	m	m	ppb
137.82	140.47	Fault Zone		gouge is pale-med green clay-sericite-talc-chlorite sharp contact at 26° to CA		talc + clay predom.	1% carb-talc chaotic	1542617	139.00	140.47	1.47	5.2
140.47	164.44	Serpentinite	2	140.47 - 141.06 is jigsaw breccia showinganguar to subrounded gragments (40%) supported by well indurated talc-clay-chlorite gouge with sharp lower contact at 65° to CA				1542619	140.47	141.97	1.50	1.9
				141.06 - 164.34 (EOH) serpentinite is dark green colored, variably well mottled to near massive; well fractured and crackled showing 1-2% spiderweb & irregular <10mm veinlets of agnesite & talk	well fract'd	talcose	1-2% talc-magnesite chaotic strings	1542620	141.97	143.97	2.00	1.1
				near massive, dark green serpentinite								
				weak crush zone at 146.00	~~~							
				near massive, dark green serpentinite	well fract'd							
				156.75 - 158.00 serpentinite is crudely jigsaw brecciated and sheared, with talc-clay crush zones (<4cm) at 156.75, 157.25, 158.00	shear & breccia	talcose clay						
				dark green serpentinite								
				159.95 4cm jigsaw breccia/crush	~~~		1-2% talc-Mg carb chaotic strings					
				160.87 5cm jigsaw breccia/crush	~~~	talcose						
				161.06 5cm jigsaw breccia/crush	~~~							
				161.55 5cm jigsaw breccia/crush	~~~							
				162.40 - 162.60 is clay-talc fault gouge (poor recovery); orientation lost.	fault	talcose clay						
				dark green serpentinite	well fract'd	talcose						
				164.44 EOH								

UTM Easting:	582035 (+/-6m)	Azimuth:	160°	Date Started:	July 30, 2016
UTM Northing:	6607380 (+/-6m)	Dip:	-60	Date Finished:	August 6, 2016
Elevation:	861m (approx.)	Hole Length:	138.68	Date Logged:	August 4-6, 2016
		Core Size:	HQ	Logged by:	Ian Coster

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	NTERVAL	Au
m	m						%		m	m	m	ppb
0	23.16	CASING		CASING								
23.16	30.76	Serpentinite	2	dark green to olive green, waxy-translucent in places, weakly mottled in places, crudely rolled-brecciated in places; mod-strongly magnetic * surface oxidized to ~25m 26.70 - 26.88 is med green chlorite-clay gouge, no angles evident 27.30 - 27.58 weak shear with minor crush, foliation @70° to CA 30.05 - 30.76 serpentinite becoming increasingly milled & brecciated with the lower 8cm of just chlorite-clay gouge (talcy) sharp contact @60° to CA	blocky & fract'd ~~~ ~~~ ~~~ ~~~	magnesite as veinlets talc	1-2% chaotic magnesite talc strings					
30.76	36.33	Andesite	9b	med to dark green-grey colored, fine grained and sub-porphyritic with variably 5-20% sub-anhedral plag phenos <2mm; generally homogeneous throughout contact uncertain, core loss area	blocky, fract'd much broken core	weak chlorite	1-2% magnesite-talc veinlets					
36.33	37.53	Serpentinite	2	essentially as 23.16 - 30.76 contact sharp at 60° to CA, lower 6cm sheared & talcose	~~~	magnesite vnlts, talc	as above, chaotic					
37.53	96.76	Andesite	9b	very similar to volcanic described above, but now is more equigranular (fg predominantly to med gr); occasionally portrays a crude autobreccia texture, traces smeared pyrrite along slickensided fractures (with talc & serpentine) 46.75 - 47.75 core is weakly crushed/sheared dark green-grey, equigranular fine grained volcanic, periodically showing up to a metre of crude autobreccia; fairly uniform/homogeneous throughout to locally 1% over a metre traces smeared of brassy pyrite lining fractures	~~~ brittle broken core blocky fract'd	weak chlorite serpentine	1-2% calcite talc veinlets & gashes					

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	NTERVAL	Au
m	m						%		m	m	m	ppb
37.53	96.76	Andesite	9b	dark green-grey, equigranular fine grained volcanic, periodically showing up to a metre of crude autobreccia; traces to locally 1% brassy pyrite as smears & cubes along fractures from ~76m to 93m core is very braken, shattered, blocky fractured, with areas of weak shearng & crush at 84.80, 89.0, 91.50, 92.60 dark green-grey, equigranular fine grained volcanic, showing rare, crude autobreccia; traces pyrite as cubes/smears along fractures fairly uniform/homogeneous throughout contact sharp @60° to CA with 2cm talcy shear	blocky fract'd shattered blocky fract'd	weak chlorite serpentine	1-2% calcite talc vnlts & gashes					
96.76	100.31	Serpentinite	2	dark green to blue-green colored, near massive w white-buf dots/mottles of calcite >mg-carb; mottles often in webs & threads; moderately magnetic 98.40 is crush/shear @ 25° to CA with 1cm barren magnesite vein lower contact @40-50° to CA & sheared/brecciated for 25cm	massive ~~~	weak mg-carb	1-2% calcite magnesite vnlts & clots					
100.31	113.02	Andesite	9b	may be diabase (4) ? med-dark (green) grey color, fine (to med) grained chloritized mafic groundmass, hosting 10-20% 1-2mm subhedral plag phenos, grading variably in "clouds" fairly uniform/homogeneous throughout contact sharp irregular	blocky fract'd	weak clorite	1% irreg. magnesite carb gashes					
113.02	124.85	Serpentinite	2	variably wk (3ab) medium green grey colored, spotty & mottled & crudey brecciated-rolled in places; is weakly pervasibely mg-carb altered & hosts an increase in chaotic gashes & stringers mg-carb/talc weakly crushed/sheared at 114.40, 115.75 from 117.60 to 120.85 degree o alteration noticeably increasing, becoming lighter grey-green color, still no introduction of silicification or quartz veins weak crush/shear @119.40 @50° to CA contact gradational over 25cm to mod-strong alteration	~~~ mod fract'd ~~~	wk to variably mod mg-carb perv. Talcose alt'n increasing with depth	2-3% mg-carb talc stringers & gashes	1542621 1542622 1542625 1542626 1542627 1542628 1542629 1542630	113.02 114.52 117.52 118.77 119.81 120.85 122.05 123.55	114.52 116.02 118.77 119.81 120.85 122.05 123.55 124.85	1.50 1.50 1.25 1.04 1.04 1.20 1.50 1.30	45.7 66.6 21.7 31.6 14.7 17.8 20.5 50.5

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	NTERVAL	Au
m	m						%		m	m	m	ppb
124.85	125.73	Andesite	9b	med tan-buf color, chaotically veinletted, hosts tr-1% vfg pyrite; bleached contact @25° to CA, shear, weakly sheared	weakly sheared	as above	3-5% chaotic qtz-carb	1542631	124.85	125.73	0.88	33.5
125.73	128.68	Serpentinite	3ab	med to light grey green, swirly textured, mg-carb alteration as 120.85 - 124.85; weakly sheared throughout 127.10 - 127.49 is thin interval of bleached andesite similar to 124.85 - 125.73 serpentinite hosts 3-4% <1m qtz-carb stringers, chaotic orientation contact uncertain, lost in 8cm of gougy fault breccia	swirly ~~~	wk to variably mod mg-carb perv. Talcose	3-4% chaotic qtz-carb stringers	1542632 1542633	125.73 127.23	127.23 128.68	1.50 1.45	20.3 30.7
128.68	138.68	Andesite	9b	mod buff-tan, fine grained, equigranular (hosts 3-4% irregular clots o chlorite (?) after unknown mafic phenos (?); groundmass is mg-carb bleached, hosts 1% vfg cubic py 129.00 - 138.68 (EOH) core is very broken-brittle with periods of lost core & reaming, as well as gougy sections 129.60 - 129.68 clayey gouge (lostcore) 130.50 - 8cm of gouge (orientation destroyed) possibly 020° ? predominant veinlets orientation 35-40° to CA, veinlets average 8mm,up to 20m, host traces pyrite in selvages 131.40 is 12cm of gouge parallel to CA *131.53 - 40cm between "reaming cave" blocks (not sampled) 131.53 - 132.68 20% gouge in broken core *134.18 -approximately 40cm between "cave" blocks (not sampled)135.70 is 8cm of gouge in broken core 138.68 EOH (abandoned due to pinching rods & constantly reaming out clay-gouge)	sheared faulted very broken core ~~~ ~~~ ~~~ ~~~ ~~~ ~~~ ~~~ ~~~ ~~~	mod-str perv. mg-carb (bleached)	2-5% chaotic qtz-carb stringers	1542634 1542635 1542636 1542637 1542638 1542640 1542641 1542643 1542644	128.68 129.68 130.76 131.53 132.68 134.18 135.33 136.25 137.46	129.68 130.76 131.53 132.68 134.18 135.33 136.25 137.46 138.68	1.00 1.08 0.77 1.15 1.50 1.15 0.92 1.21 1.22	19.2 4.8 166.1 3.3 32.3 58.6 1490.6 21.8 355.3

UTM Easting:	582230 (+/-6m)		Azimuth:	160°	Date Started:	Aug 6, 2016
UTM Northing:	6607490 (+/-6m)		Dip:	-60	Date Finished:	Aug 14, 2016
Elevation:	874m (approx.)		Hole Length:	230.12	Date Logged:	Aug 8-14, 2016
			Core Size:	HQ	Logged by:	Ian Coster

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	INTERVAL	Au
m	m						%		m	m	m	ppb
0.00	8.53	CASING		CASING								
8.53	39.80	Serpentinite	2	highly variable med-dark grey green colored, more alive-green where brecciated, to deep green where massive; moderately to strongly magnetic throughout; pre-breccia texture is weakly mottled with 5-10% 2-6mm darker "spots", also 3-5% <2mm black anhedral magnetites 8.53 - 10.00 breccia section with 70% rounded-subangular fragments of serpentinite in a lacy talc-carb-chlorite-clay matrix, soft and minor crush/wk shear (chloritic) at 15-30° to CA 10.00 - 16.00 massive to weakly brecciated dark green serpentinite with lacy 1-2% calcite-talc-chlorite-mg-carb stringers 16.47 - 17.03 brecciated section, as 8.53 - 10.00, 50% darker green fragments of serpentinite in 60% paler green, soft/sheared talcose 17.70 - 31.30 is a continuous zone of brecciation: probable thrust zone, melange of highly variable sized serpentinized rounded to subangular serpentinite (35-50%), up to 30cm in size; supported in 50-65% pale green "matrix" of talc-chlorite (carb); weak shears & crushes <5cm throughout, particularly from ~21-23m (no particular orientation) brecciated/sheared serpentinite 25.50 is crush/gouge at 30° to CA brecciated/sheared serpentinite to 31.30 31.30 - 39.80 is dark green, near-massive serpentinite, well fractured & weakly sheared throughout 33.70 - 34.80 is brecciated & strongly sheared @60° to CA 34.80 - 39.80 is darker green near-massive serpentinite 35.03 is 12cm of shear/crush 39.01 core loss is probably closer to the end of this run, showing remnants of crumbly/gougy core 39.40 is 10m of breccia/shear/crush contact sheared at 50° to CA	brecc'd, weak shear massive to weakly brecc'd strongly brecc'd throughout brecc'd ~~30~~ ~~~ ~~60~~ ~~~ ~~~ ~~~ ~~50~~	talc-chlorite weak clay	1-2% calcite, mg-carb-talc strings	1542645 1542646	25.30 26.80	26.80 28.30	1.50 1.50	2.9 1.7

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	INTERVAL	Au
m	m						%		m	m	m	ppb
39.80	51.63	Basalt	1	core loss at top o run 39.80 - 40.87 is gougy fault breccia @ unknown orientation; rock is very dark green, very fine grained non-magnetic, massive; well fractured to weakly sheared/crushed throughout, commonly showing serpentine along fractures 47.56 - 47.75 strongly sheared/crushed 50.53 - 51.63 (lithology suspect) is paler green colored, brecciated and serpentinized (has macroscopic appearance of serpentinite, no particular orientation); both serpentinite & basalt fragments in breccia contact indistinct in very broken core	~~~ ~~~ well fract'd ~~~ well fract'd	chlorite serpentine	1-2% calc-chl (talc) wisps & gashes	1542647 1542648	49.03 50.53	50.53 51.63	1.50 1.10	<0.5 <0.5
51.63	106.06	Serpentinite	2	generally dark blue-green colored and fine grained pyroxene-rich; mod to strongly magnetic olive green serpentine color increases with increasing fracture density and/or brecciation ~ 58m on -massive, fine grained, dark blue-green colored, mod to strongly magnetic; lacy web o 1% <2mm veinlets and fractures coats talc +/- calcite +/- chlorite 59.93 is 6cm of gougy breccia @ 35° to CA dark blue-green, massive, magnetic throughout 60 - 66 increase in fracture density 66.34 - 69.05 is faut-zone consisting of gougy (clay) breccia, 75% is pale green clay talc gouge supporting rounded to sub-angular serpentinite fragments (olive green & dark blue-green) up to 3cm 68.26 - 68.80 fragments are med bround to buff colored, unknown lithology (bleached volcanics?), no visible sulphides 69.05 - 71.77 is crudely brecciated, weak to locally moderately mg-carb altered (pervasive but due bounding faults) 71.77 - 74.19 is fault zone melange of gougy clay breccia (40% clayey gouge) supporting 60% rounded - subangular fragments of dark green serpentinite and med green altered serpentinite; all in a crude swirly fabric @ 30-45° to CA from 73.44 to 73.80 is large fragment of med green serpentinite 74.19 - 77.40 is crudely brecciated med to dark green massive serpentinite	weakly sheared massive ~~35~~ massive & fract'd fault zone ~ fault zone 30-45 ~~~ ~~37~~	talc talc +/- carb Mg-carb + talc clay mg-carb + talc clay talc	1% talc-calcite-chlorite as chaotic web 1-2% a above 2-3% mg-carb + calcite + talc web 1% calcite	1542649 1542650 1542651 1542653 1542654 1542655 1542656 1542657 1542658 1542659 1542660 1542661 1542662	51.63 64.84 66.34 67.84 68.84 69.84 70.84 71.77 73.27 74.19 75.19 76.40 77.40	53.13 66.34 67.84 68.84 69.84 70.84 71.77 73.27 74.19 75.19 76.40 77.40 78.40	1.50 1.50 1.50 1.00 1.00 1.00 0.93 1.50 0.92 1.00 1.21 1.00 1.00	1.1 4.1 65.9 23.6 93.5 2 <0.5 2621.2 2.2 0.7 6.2 19.4 10.7

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	INTERVAL	Au
m	m						%		m	m	m	ppb
				77.40 - 80.90 is section of continuous breccia, not faulted (similar to breccia from 17.70 - 31.30	strong breccia	talc +/- clay	1% calcite + talc web	1542663	78.40	79.90	1.50	2.1
								1542664	79.90	80.90	1.00	2.3
				from 80.90 to approx 96m, serpentinite is very dark green colored, mod to strongly magnetic, and near massive to crudely brecciated; periodically crushed/weakly sheared with <3cm gougy zones; hosts variably 2-5% multi-episodic, lacy to 1cm mg-carb/calcite/talc stringers - serpentinite is lighter green in higher concentration of stringers	crude breccia near massive			1542665	80.90	82.40	1.50	3.4
								1542666	82.40	83.90	1.50	4.8
								1542668	83.90	85.40	1.50	11.6
				81.40 - 81.69 shear/crush	~~~			1542669	85.40	86.90	1.50	4.2
				85.80 - 88.40 weakly brecciated/sheared/crushed (@40° ? To CA)	~~40~~			1542671	86.90	88.40	1.50	4.4
				very dark green corlored, mod to strongly magnetic & near massive to crudely brecciated periodically crushed/weakly sheared with <3cm gougy zones		talc & weak mg-carb	2-3% mg-carb + talc chaotic strings					
				89.60 - 89.92 is weak shear/crush with minor clay-chlorite gouge (core loss)	~~~			1542672	88.40	89.90	1.50	2.1
				90.50 - 90.83 as above	~~~			1542673	89.90	91.40	1.50	4.3
				91.10 - 91.40 as above	~~~			1542674	91.40	92.90	1.50	2.8
51.63	106.06	Serpentinite	2	90.55 - 91.75 is crudely brecciated, weakly sheared	~~~			1542675	92.90	94.40	1.50	2.3
				92.70 is 5cm of clay-talc-chlorite gouge @60° to CA	~~60~~							
				94. 0 - 96.00 degree of crude brecciation and lacy talc/mg-carb alteration increasing	breccia			1542676	94.40	95.90	1.50	14.2
				96.00 - 97.45 serpentinite is pale to mod. Green colored due to 5-8% mg-carb >> qtz veinlets & lacy stringers, one main 2cm vein sub-parallel / sinuous to CA; several episodes of flooding along weak shears (no sulphides), non magnetic	crackle veinlets	mod mg-carb	5-8% veinlets mg-carb >> qtz	1542677	95.90	96.81	0.91	3.3
								1542678	96.81	97.45	0.64	3.3
				97.45 - 100.20 serpentinite is very dark blue-green color, non-magnetic (?), massive, crackle fractured with 3-4% chaotic, lacy mg-carb/talc stringers, and up to 5% white talc/mg-carb "spots" (1-2mm)	massive		3-4% lacy mg-carb	1542679	97.45	98.95	1.50	2
								1542680	98.95	100.45	1.50	4.4
				100.20 - 102.00 serpentinite massive, med green color & soft waxy, magnetic; 3cm clay-talc gouge at 101.60 @50° (?) to CA				1542681	100.45	101.95	1.50	4.9
				102.00 - 104.38 dark blue-green colored serpentinite is brecciated/ faulted, with 65% subangular fragments hosted in 35% clay-talc-chlorite gougy matrix poorly indurated and crumbly - 102.50 is 12cm of crush/ gouge	breccia with	talc & weak mg-carb	2-3% talc, mg-carb lacy strings	1542682	101.95	103.45	1.50	3.2
								1542683	103.45	104.56	1.11	83.2
				103.40 - 103.82 is 80% gouge in fault, orientation unknown in broken core; frags of mg-carb vein & serpentinite	~~~							

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	INTERVAL	Au
m	m						%		m	m	m	ppb
51.63	106.06	Serpentinite	2	103.82 - 105.65 is dark blue-green massive serpentinite 105.65 - 106.06 is fault breccia,gouge 75%; subrounded serpentinite fragments in a rough fabric 30° to CA contact sharp @30° to CA (but irregular)	massive ~~30~~ 30	talc & weak mg-carb	2-3% talc, mg-carb lacy strings	1542684	104.56	106.06	1.50	46.2
106.06	109.40	Basalt	1	very dark green colored, vfg to fg & equigranular & uniform, moderatey brecciated & sheared throughout, especially gougy-sandy near contacts ; much ofthecore is dark green, chloritic "sand"; non-magnetic 109.12 - 109.40 is fault breccia melange, 25% combined basalt & serpentinite contact indistinct in breccia	crumbly sheared	chlorite	nil	1542685 1542686 1542687	106.06 107.06 108.40	107.06 108.40 109.40	1.00 1.34 1.00	2.3 2.1 1.1
109.40	115.31	Serpentinite	(2) & (3a)	med green speckled & mottled serpentinite, moderate mg-carb altered, weakly sheared & talcose 109.40 - 110.27 is gougy fault breccia @ avg 40° to CA 110.27 - 111.17 is dark blue-green massive serpentinite (2) 111.17 - 113.72 is fault zone breccia, melange oriented fabric to swirly gougy-clay (40-50%) @ avg 35° to CA; fragments are predominantly mg-altered red serpentinite (3a) . Darker green serpentinite (2) and also of whitish gm-arb>quartz veins (to 1cm) that host traces vfg pyrite 113.24 - 113.65 is gougy-sheared dark green mafic volcanic (?) rock with brecciated-sheared gougy contacts contact sharp @ 35° to CA (upper 10cm of andesite sheared and brecciated)	~~40~~ fault zone ~~35~~ 35	clay & mod-str mg-carb talc & mod mg-carb	1-2% mg-carb (qtz) veinlets	1542688 1542689 1542690 1542692 1542693 1542695	109.40 110.27 111.17 112.67 113.72 114.52	110.27 111.17 112.67 113.72 114.52 115.31	0.87 0.90 1.50 1.05 0.80 0.79	39.7 1.5 7.6 4.4 16.7 13.7
115.31	116.07	Andesite	9b	med-dark green, fine grained & equigranular; non-magnetic contact sharp @ 45° to CA	45	chlorite	as above	1542696	115.31	116.07	0.76	<0.5
116.07	117.78	Serpentinite	(3a)	med grey-green colored, massive & uniformly "spotted" with 20% 1-4mm magnesite spots & coalescing blotches irregular contact, sharp; shear @15° to CA; traces g pyrite in talc-magnesite strings	~~15~~	talc & mod mg-carb	1-2% mg-carb (qtz) veinlets	1542697 1542698	116.07 116.93	116.93 117.78	0.86 0.85	33.6 113.4
117.78	119.67	Andesite	9b	med to dark green, fine grained, equigranular, non agnetic 118.69 - 119.40 is crumbly, sheared & crushed with 6cm o gougy breccia at 118.85 @60° to CA; with fragments of mg-carb veins contact sharp & irregular		talc & weak mg-carb	1-2% mg-carb (qtz) veinlets	1542699 1542700	117.78 118.73	118.73 119.67	0.95 0.94	<0.5 7.3
119.67	135.62	Serpentinite	(3a)	variable medium to light grey-green colored, mottled & "spotted" with mg-carb; variably swirly textured to near massive to weakly sheared; generally soft & talcose; variably moderately magnetic; trace fg pyrite		talc & mod to locally strong mg-carb	2-3% talc, mg-carb (qtz) veinlets &					

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	INTERVAL	Au
m	m						%		m	m	m	ppb
119.67	135.62	Serpentinite	(3a)	119.67 - 119.90 wk crush/gouge 121.50 - 121.60 are 3 mg-carb/talc veinlet @60-80° to CA hosting coarse clots of brassy-brown pyrite 122.40 weak crush/gouge ~124 - 135.62serpentinite is as above bu the degree of alteration is less (to weak), and is darker grey-green colored (lighter green around weak shear/crush zones) 127.30 is 10cm of crush/gouge @55° to CA 129.04 - 129.54 is broken core hosting several 5cm of crush/gouge 133.28 is 3cm of crush/gouge 134.04 - 134.66 Fault gouge @55° to CA hosting 35% subrounded serp. (3a) fragments *core loss effecting samples 1542711 & 1542713 contact sharp @50° to CA and lower 15cm is gougy breccia (minor gm-carb veinlets); very broken core	weakly sheared to massive ~~55~~ ~~~ ~~55~~ 50	talc & mod to locally strong mg-carb talc & weak mg-carb	2-3% talc, mg-carb (qtz) veinlets & strings 1-2% talc, mg-carb strings	1542701 1542702 1542703 1542704 1542705 1542706 1542707 1542708 1542709 1542710 1542711 1542713	119.67 121.17 122.67 124.17 125.67 127.17 128.67 130.17 131.17 132.54 134.04 134.66	121.17 122.67 124.17 125.67 127.17 128.67 130.17 131.17 132.54 134.04 134.66 135.62	1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.00 1.37 1.50 0.62 0.96	45.9 15.7 18.3 2.7 17.4 19.4 28.5 6.6 55.6 58.7 62.3 45.3
135.62	191.80	Serpentinite	(2)	generally very dark blue-green colored, near massive, and only weakly serpentinized; very strongly magnetic throughout, generally quite hard, consisting of <90% pyroxene; traces to locally 1/2% vfg disseminated pyrite from 135.62 to approx. 144m, is weakly sheared to crushed in places, and flooded with 2-4% talk-magnesite (?) stringers in no preferred orientation; crude jigsaw breccia textures & shearing at roughly one/metre of 10-20cm breccia - no preferred orientation to breccia/shear 144m -on -dark blue-green colored, hard , massive fine to medium grained serpentinite (very weakly serpentinized pyroxenite; very strongly magnetic; trace to locally 1/2% vfg disseminated pyrite 147.10 is 20cm sandy much (cave) 149.28 - 150.00 is weakly sheared/crushe/breccia at low angle (15°) to CA 155.30 & 156.00 broken core in weak shear/rush 156.63 - 157.79 is crumbly fault gouge & 40% subangular serpentinite fragments; orientation destroyed in lost core	weakly sheared & weakly breccia'd near massive to blocky fract'd ~~~	talc & weak mg-carb	3-4% talc, mg-carb strings 1% talc, mg-carb strings Nil-1% talc, mg-carb strings	1542714 1542715 1542716 1542717 1542719 1542720 1542721 1542722	135.62 137.12 138.62 140.12 141.62 143.00 156.63 157.79	137.12 138.62 140.12 141.62 143.00 144.50 157.79 159.16	1.50 1.50 1.50 1.50 1.38 1.50 1.16 1.37	106.5 174.4 48.3 9 5.1 1.2 2.5 2.6

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	INTERVAL	Au
m	m						%		m	m	m	ppb
135.62	191.80	Serpentinite	(2)	157.79 - 162.50 is crudely brecciated/rolled with med-green colored lacy talc-carb crackles & atrix; much broken core to 163m 170 - 177m - much broken core 178.31 - 179.90 is crudely brecciated rolled with med-green colored lacy talc-carb crackles and matrix 183.20 - 184.20 much broken core in weakly sheared jigsaw breccia from ~185m to lower contact, becoming increasingly mottled & "spotted" with paler green-grey mg-carb & serpentine 190.30 is 5cm of weak shear/crush gradational contact over 20cm based on increase in alteration and % veinlets and change in magnetism	crude breccia near massive to blocky fract'd	talc & weak mg-carb	Nil-1% talc 1-2% talc, mg-carb strings	1542723	159.16	160.66	1.50	31.7
191.80	199.88	Serpentinite	(3a)	med to dark green serpentinite (more serpentinized than above) & crackle-fractured & gashes magnesite >>quartz, particularly around weak crush/shears; crudely brecciated-rehealed with talc-magnesite stringers 195.60 - 196.70 much broken core due to weak shear, crubly crush area gradational contact based on decrease in alteration & % veinlets & change in magnetism	massive to crudely breccia'd ~~~	talc & weak-mod mg-carb	2-4% talc, mg-carb strings & veinlets	1542725 1542726 1542727 1542728 1542729	191.80 193.30 194.80 196.30 197.80	193.30 194.80 196.30 197.80 198.88	1.50 1.50 1.50 1.50 1.08	48.8 149 60.6 66.5 64.7
199.88	206.03	Serpentinite	(2)	similar to 135.62 - 191.80q dark blue-green, massive, ard, strongly magnetic; variably mottled with grey magnesite 202.50 - 203.00 crudely brecciated 205.35 - 205.65 crudely brecciated contact gradational over ~1m based on increase in alteration and crude brecciation	massive to crudely breccia'd	talc & weak-mod mg-carb	1-2% talc, mg-carb strings	1542730 1542731 1542732 1542733 1542734 1542735	198.88 199.88 201.38 202.88 204.03 205.03	199.88 201.38 202.88 204.03 205.03 206.03	1.00 1.50 1.50 1.15 1.00 1.00	5.7 7.1 3.7 4.4 3.8 12.2
206.03	211.77	Serpentinite	(3a)	similar to 191.80 - 199.88 med to dark green serpentinite, crackle-fractured & 3-5% veinletted with mg-carb << quartz; generally cludely brecciatedthroughout 209.37 - 210.64 is gougy fault zone, 40% subangular to subrounded 3a clasts (to 5cm) supported by grey-green clayey gouge; possible orientation @38^{o} to CA gradational contact over 20cm based on decrease in alteration	breccia fault zone breccia	talc & weak-str mg-carb	3-5% talc, mg-carb strings	1542736 1542737 1542739 1542740 1542741	206.03 207.30 208.37 209.37 210.64	207.30 208.37 209.37 210.64 211.77	1.27 1.07 1.00 1.27 1.13	44.6 29.8 12 28 1.2
211.77	217.33	Serpentinite	(2)	similar to 199.88 - 206.03; dark green, hard, strongly magnetic, variably		talc	2-3% talc,	1542743	211.77	213.27	1.50	1.5

From	To	Rock Type	Code	LITHOLOGICAL DESCRIPTION	STRUCT.	ALTERATION	VEIN	SAMPLE #	FROM	TO	INTERVAL	Au
m	m						%		m	m	m	ppb
211.77	217.33	Serpentinite	(2)	mottled with light grey magnesite; crackle-fractured & weakly veinletted with talc < mognesite, moderately magnetic gradational contact over 10cm as shearing increases		talc & weak mg-c	2-3% talc, mg-carb strings	1542744 1542745 1542746	213.27 214.77 216.27	214.77 216.27 217.33	1.50 1.50 1.06	<0.5 <0.5 12.5
217.33	221.22	Serpentinite	(3a)	variably med grey-green to med dark green colored, moderate to strongly sheared & swirly-textured & talcose; variably weakly magnetic; crudely brecciated; 3-4% mg-carb > quartz stringers & up to 1cm veinlets; often at low angle to CA (0-15° to CA); traces fg pyrite in stringers contact sharp @ 30° to CA, with 22cm of clay breccia (frags of serpentinite)	sheared & crude breccia ~~30~~	talc & mod-str mg-carb	3-4% mg-carb > quartz strings	1542747 1542748 1542749	217.33 218.83 220.22	218.83 220.22 221.22	1.50 1.39 1.00	15 6.7 1.4
221.22	226.37	Andesite	9b	upper 15cm of clay-chlorite gougy fault breccia (fragments of andesite) dark grey-green colored, fine grained; not agnetic; not bleached but hard (weak silicification?) & weakly mg-car with 2-3% mg-carb >> quartz strings & <6mm veinlets 225.78 - 226.00 serpentinite inlier (?), diffuse irregular , diffuse contact	weak shear blocky fract'd	weak mg-carb weak silic'n	2-3% mg-carb strings	1542750 1542751 1542753 1542754	221.22 222.72 224.22 225.37	222.72 224.22 225.37 226.37	1.50 1.50 1.15 1.00	<0.5 1.3 <0.5 <0.5
226.37	228.30	Serpentinite	(3a)	and andesite (9b) melange 226.37 - 227.18 is swirly textured, medium to light grey-green serpentinite, near listwanitic with fuchsite & veinlets; traces fg pyrite 227.18 - 228.12 is med grey-green-tan colored, bleached andisite; very weakly veinletted 228.12 - 228.30 is swirly textured serpentinite, near listwanitic with fuchsite & veinlets; traces fg pyrite. 226.97 - 228.30 strong shearing/gougy at 20-50° to CA	sheared & crushed	strong mg-carb, mod silic'n	3-5% mg-carb > quartz strings	1542755 1542756	226.37 227.38	227.38 228.30	1.01 0.92	6 3.7
228.30	230.12	Andesite	9b	med grey-green -tan colored fg & equigranular; sheared & crumbly fractured with talcose slips throughout (crushed) 230.12m EOH *abandoned due to clay pinching hole	sheared & crushed	talc & weak mg-carb	1% talc, mg-carb strings	1542757 1542758	228.30 229.12	229.12 230.12	0.82 1.00	0.5 2.4

Appendix IV

Diamond Drill Sections

60° dip
OVB

collar at 6607490 N
582230 E
YJ16-04

→ 116m horiz aspect

Azimuth → 160°

serp (2)

Basalt

50

Serp (2)

196 m vertical aspect

100

Basalt

Ande/serp/ands

serp.

Serp (3a)

Serp (2)

150

Serp (2)

gradational

Serp (3a)

200

serp (2)

Serp (2)

Serp (3a)

grading

Ands

Serp (3a) & Ands melange

230.12
EOH

SAMPLE RESULTS (Au)

Sample #	From (m)	To (m)	Au (ppb)
1542645	25.30	26.80	2.9
1542646	26.80	28.30	1.7
1542647	49.03	50.53	<0.5
1542648	50.53	51.63	<0.5
1542649	51.63	53.13	1.1
1542650	64.84	66.34	4.1
1542651	66.34	67.84	65.9
1542653	67.84	68.84	23.6
1542654	68.84	69.84	93.5
1542655	69.84	70.84	2
1542656	70.84	71.77	<0.5
1542657	71.77	73.27	2621.2
1542658	73.27	74.19	2.2
1542659	74.19	75.19	0.7
1542660	75.19	76.40	6.2
1542661	76.40	77.40	19.4
1542662	77.40	78.40	10.7
1542663	78.40	79.90	2.1
1542664	79.90	80.90	2.3
1542665	80.90	82.40	3.4
1542666	82.40	83.90	4.8
1542668	83.90	85.40	11.6
1542669	85.40	86.90	4.2
1542671	86.90	88.40	4.4
1542672	88.40	89.90	2.1
1542673	89.90	91.40	4.3
1542674	91.40	92.90	2.8
1542675	92.90	94.40	2.3
1542676	94.40	95.90	14.2
1542677	95.90	96.81	3.3
1542678	96.81	97.45	3.3
1542679	97.45	98.95	2
1542680	98.95	100.45	4.4
1542681	100.45	101.95	4.9
1542682	101.95	103.45	3.2
1542683	103.45	104.56	83.2
1542684	104.56	106.06	46.2
1542685	106.06	107.06	2.3
1542686	107.06	108.40	2.1
1542687	108.40	109.40	1.1
1542688	109.40	110.27	39.7
1542689	110.27	111.17	1.5
1542690	111.17	112.67	7.6
1542692	112.67	113.72	4.4
1542693	113.72	114.52	16.7
1542695	114.52	115.31	13.7
1542696	115.31	116.07	<0.5
1542697	116.07	116.93	33.6
1542698	116.93	117.78	113.4
1542699	117.78	118.73	<0.5
1542700	118.73	119.67	7.3
1542701	119.67	121.17	45.9
1542702	121.17	122.67	15.7
1542703	122.67	124.17	18.3
1542704	124.17	125.67	2.7
1542705	125.67	127.17	17.4
1542706	127.17	128.67	19.4
1542707	128.67	130.17	28.5
1542708	130.17	131.17	6.6
1542709	131.17	132.54	55.6
1542710	132.54	134.04	58.7
1542711	134.04	134.66	62.3
1542713	134.66	135.62	45.3
1542714	135.62	137.12	106.5
1542715	137.12	138.62	174.4
1542716	138.62	140.12	48.3
1542717	140.12	141.62	9
1542719	141.62	143.00	5.1
1542720	143.00	144.50	1.2
1542721	156.63	157.79	2.5
1542722	157.79	159.16	2.6
1542723	159.16	160.66	31.7
1542725	191.80	193.30	48.8
1542726	193.30	194.80	149
1542727	194.80	196.30	60.6
1542728	196.30	197.80	66.5
1542729	197.80	198.88	64.7
1542730	198.88	199.88	5.7
1542731	199.88	201.38	7.1
1542732	201.38	202.88	3.7
1542733	202.88	204.03	4.4
1542734	204.03	205.03	3.8
1542735	205.03	206.03	12.2
1542736	206.03	207.30	44.6
1542737	207.30	208.37	29.8
1542739	208.37	209.37	12
1542740	209.37	210.64	28
1542741	210.64	211.77	1.2
1542743	211.77	213.27	1.5
1542744	213.27	214.77	<0.5
1542745	214.77	216.27	<0.5
1542746	216.27	217.33	12.5
1542747	217.33	218.83	15
1542748	218.83	220.22	6.7
1542749	220.22	221.22	1.4
1542750	221.22	222.72	<0.5
1542751	222.72	224.22	1.3
1542753	224.22	225.37	<0.5
1542754	225.37	226.37	<0.5
1542755	226.37	227.38	6
1542756	227.38	228.30	3.7
1542757	228.30	229.12	0.5
1542758	229.12	230.12	2.4

scale 1:500

0 5 10 15 20 25 m

AFRICAN QUEEN MINES

YELLOWJACKET PROJECT

DRILLHOLE SECTION

YJ16-04

Sept. 1/17		NAD 83 zone-1
I.C.		

YJ16-01 SAMPLE RESULTS (Au)

Sample #	From (m)	To (m)	Au (ppb)
1542001	3.05	3.80	5.3
1542002	3.80	5.18	<0.5
1542003	6.80	8.23	4.1
1542004	10.00	11.13	54
1542005	11.13	12.57	8
1542006	12.57	13.57	5.3
1542007	13.57	15.07	4.8
1542008	15.07	16.00	<0.5
1542009	16.00	16.82	<0.5
1542010	16.82	17.66	9.9
1542011	17.66	18.32	15
1542013	18.32	19.82	70.4
1542014	19.82	20.84	108.4
1542015	20.84	23.24	9.9
1542016	23.24	24.13	7.5
1542017	24.13	25.01	8.9
1542019	25.01	26.01	12
1542020	26.01	27.01	15.8
1542021	27.01	28.22	6.5
1542022	28.22	28.92	2.6
1542023	28.92	29.90	1.5
1542024	29.90	30.55	10.7
1542025	30.55	31.60	77.6
1542027	31.60	32.40	6.4
1542028	32.40	33.19	5.6
1542029	33.19	34.35	34.1
1542030	34.35	35.23	19.1
1542031	35.23	36.11	4.2
1542032	36.11	37.11	21.2
1542033	37.11	38.29	75.4
1542034	38.29	39.79	3.6
1542035	39.79	41.29	2.4
1542036	41.29	42.79	8.5
1542037	42.79	44.29	5.3
1542039	44.29	45.79	2.6
1542040	45.79	47.29	1.3
1542041	47.29	48.51	3.9
1542042	48.51	49.21	20.5
1542044	49.21	50.35	17.9
1542045	50.35	51.34	2.5
1542046	51.34	52.84	24.8
1542047	52.84	54.34	16
1542048	54.34	55.51	42.3
1542049	55.51	56.48	5.1
1542050	56.48	57.50	10.4
1542051	57.50	59.00	2.1
1542053	59.00	60.50	<0.5
1542054	60.50	62.00	1.5
1542055	62.00	63.50	2.8
1542056	63.50	64.30	1.1
1542057	64.30	65.80	967.2
1542058	65.80	66.78	3.4
1542059	66.78	68.20	36.3
1542060	68.20	69.50	16.5
1542061	69.50	70.50	157.6
1542062	70.50	71.25	11.8
1542063	71.25	72.24	82.4
1542064	72.24	73.22	352.1
1542065	73.22	73.83	48.9
1542066	73.83	75.00	26.6
1542068	75.00	76.00	26.2
1542069	76.00	77.20	90
1542071	77.20	78.40	587.9
1542072	78.40	79.75	6.2
1542073	79.75	80.72	407.3
1542074	80.72	82.22	1.4
1542075	82.22	83.70	0.7
1542076	83.86	85.16	<0.5
1542077	85.16	86.10	<0.5
1542078	86.10	87.46	136.1
1542079	87.46	88.96	<0.5
1542080	88.96	90.46	25.4

← 60m horiz aspect YJ16-01

← 41m horiz aspect YJ16-02

AZIMUTH ← 340°

159 m vertical aspect YJ16-02

85 m vertical aspect YJ16-01

6607320 N
582189 E

COLLAR
YJ16-01
YJ16-02

fe-carb serp

Ands

Ands/diorite

fe-carb serp

fe carb serp

Andesite

interlayered serp-ands

carb-alt'd serp

Diabase? Diorite?

Ands

carb-alt'd serpentinite

serp & listw

← bleached Andesite

wk-alt'd serp

YJ16-02 SAMPLE RESULTS (Au)

listw-serp

Andesite

serp listw

fault

carb-alt'd serpentinite

weakly alt'd Andesite

listw-serp

bleached Andesite

102.14 m EOH

dip = -55° YJ16-01

listw-serp

Diabase or Andesite

fault zone

serpentinite

bleached/veined Pyritic Andesite

Sample #	From (m)	To (m)	Au (ppb)
1542501	3.05	4.55	11.8
1542502	4.55	6.05	18.1
1542503	6.05	7.05	0.6
1542504	7.05	8.02	22.3
1542505	8.02	8.84	12.4
1542506	8.84	9.92	2.2
1542507	9.92	11.00	1.4
1542508	11.00	12.50	16
1542509	12.50	14.00	14.2
1542510	14.00	15.00	2.8
1542511	15.00	15.95	1.2
1542515	15.95	17.45	3.1
1542514	17.45	18.50	8
1542515	18.50	20.00	<0.5
1542516	20.00	21.00	<0.5
1542517	21.00	22.08	6.2
1542519	22.08	23.58	22.2
1542520	23.58	24.92	32
1542521	24.92	26.42	5.7
1542522	26.42	27.92	10.6
1542523	27.92	29.42	1.1
1542525	29.42	30.92	4
1542526	30.92	31.92	4.1
1542527	31.92	32.80	3.3
1542528	32.80	34.30	3.4
1542529	34.30	35.80	23.3
1542530	35.80	37.30	9.3
1542531	37.30	38.80	214.7
1542532	38.80	39.55	55.5
1542533	39.55	40.55	104.5
1542534	40.55	41.84	30.3
1542535	41.84	43.34	118.5
1542536	43.34	44.84	<0.5
1542538	44.84	45.89	<0.5
1542539	45.89	46.89	7.2
1542540	46.89	48.20	20.2
1542541	48.20	49.70	18.5
1542543	49.70	51.00	1970.9
1542544	51.00	52.00	867.8
1542545	52.00	53.50	107.2
1542546	53.50	54.90	182.4
1542547	54.90	56.40	35.6
1542548	56.40	57.90	10.1
1542549	57.90	59.40	12.6
1542550	59.40	60.90	15.5
1542551	60.90	62.40	1.4
1542553	62.40	63.90	8.5
1542554	63.90	65.40	19.9
1542555	65.40	66.90	66.7
1542556	66.90	68.40	0.7
1542557	68.40	69.90	<0.5
1542558	69.90	71.40	<0.5
1542559	71.40	72.40	178.4
1542560	72.40	73.40	181.3
1542561	73.40	74.49	2433.9
1542562	74.49	75.49	236.6
1542563	75.49	76.99	311.5
1542564	76.99	78.19	82.8
1542565	78.19	79.69	63.1
1542566	79.69	81.19	165.8
1542568	81.19	82.69	87
1542569	82.69	84.19	1.5
1542571	84.19	85.23	<0.5
1542572	85.23	86.23	723.7
1542573	86.23	87.39	52.5
1542574	87.39	88.89	41.2
1542575	88.89	90.39	10.1
1542576	90.39	91.89	7.9
1542577	91.89	92.70	10
1542578	92.70	94.05	15.3
1542579	94.05	95.55	<0.5
1542580	95.55	97.05	0.6
1542581	97.05	98.55	5.2
1542582	98.55	99.55	14.2
1542583	99.55	100.30	10.7
1542584	100.30	101.40	15.1
1542586	101.40	102.40	6.4
1542587	102.40	103.48	>10000.0
1542588	103.48	104.65	117
1542589	104.65	105.85	57.4
1542590	105.85	106.56	197
1542592	106.56	107.80	1173.9
1542593	107.80	109.22	878.7
1542595	109.22	110.40	351.5
1542596	110.40	111.90	30.4
1542597	111.90	113.40	470.9
1542598	113.40	114.40	71.7
1542599	114.40	115.40	99.4
1542600	115.40	116.90	89.5
1542601	116.90	118.40	23
1542602	118.40	119.90	4.6
1542603	119.90	121.40	23.5
1542604	121.40	122.90	9.9
1542605	122.90	124.40	6.8
1542606	124.40	125.90	9.7
1542607	125.90	127.40	58.3
1542608	127.40	128.90	96.2
1542609	128.90	130.40	60.1
1542610	130.40	131.74	21.6
1542611	131.74	132.82	298.2
1542613	132.82	134.23	1011.5
1542614	134.23	135.60	13.4
1542615	135.60	136.67	1.6
1542616	136.67	137.82	9.7
1542617	137.82	139.00	22.8
1542619	139.00	140.47	5.2
1542620	140.47	141.97	1.9
	141.97	143.97	1.1

dip = -75° YJ16-02

lower extent of alt'n

serpentinite/andesite

fresh barren serpentinite

164.34 EOH

scale 1:500

0 5 10 15 20 25m

AFRICAN QUEEN MINES

YELLOWJACKET PROJECT

DRILLHOLE SECTIONS

YJ16-01 & YJ16-02

Sept. 1/17		NAD 83 zone-1
I.C.		

340°

Azimuth ⟶ 160°

collar at 6607380 N
582035 E

YJ16-03

⟶ 68m horiz. aspect

-60° dip

OVB

serp (2)

serp(2)

Ands

⟶ 121m vert. aspect

-50

Ands

serp (2)

100

Ands

serp (2)

serp(3a)

Ands

serp(3a)

Ands

138.68m EOH

SAMPLE RESULTS (Au)

Sample #	From (m)	To (m)	Au (ppb)
1542621	113.02	114.52	45.7
1542622	114.52	116.02	66.6
1542623	116.02	117.52	30.9
1542625	117.52	118.77	21.7
1542626	118.77	119.81	31.6
1542627	119.81	120.85	14.7
1542628	120.85	122.05	17.8
1542629	122.05	123.55	20.5
1542630	123.55	124.85	50.5
1542631	124.85	125.73	33.5
1542632	125.73	127.23	20.3
1542633	127.23	128.68	30.7
1542634	128.68	129.68	19.2
1542635	129.68	130.76	4.8
1542636	130.76	131.53	166.1
1542637	131.53	132.68	3.3
1542638	132.68	134.18	32.3
1542640	134.18	135.33	58.6
1542641	135.33	136.25	1490.6
1542643	136.25	137.46	21.8
1542644	137.46	138.68	355.3

scale 1:500

0 5 10 15 20 25 m

AFRICAN QUEEN MINES

YELLOWJACKET PROJECT

DRILLHOLE SECTION

YJ16-03

Sept. 1/17		NAD83 zone-1
I.C.		

Appendix V

Bureau Veritas
Certificates of Analysis for Diamond Drilling

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Submitted By: Irwin Olian
Receiving Lab: Canada-Whitehorse
Received: August 01, 2016
Report Date: September 06, 2016

CERTIFICATE OF ANALYSIS WHI16000151.1

CLIENT JOB INFORMATION

Project: Yellow Jacket
Shipment ID:
P.O. Number
Number of Samples: 80

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	75	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ200	80	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	80	Per sample shipping charges for branch shipments			VAN
SLBHP	5	Sort, label and box pulps			VAN

ADDITIONAL COMMENTS

Invoice To: African Queen Mines Ltd.
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8
Canada

CC: Reinhard Ramdohr

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Geochemical Laboratory Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

BUREAU VERITAS MINERAL LABORATORIES Canada

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Method		WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1542001	Rock	2.88	0.2	38.4	0.9	29	<0.1	872.1	71.5	1968	3.40	5.0	5.3	0.1	13	0.2	0.1	<0.1	53	0.94	0.026
1542002	Rock	2.12	0.5	24.7	2.2	21	<0.1	1757.5	129.2	1874	5.66	16.9	<0.5	0.2	6	0.5	0.1	<0.1	63	0.11	0.006
1542003	Rock	5.41	0.3	32.6	2.3	23	<0.1	1150.3	62.3	1192	4.39	18.5	4.1	0.2	31	0.2	0.1	0.1	78	1.87	0.018
1542004	Rock	3.75	<0.1	20.7	0.3	14	<0.1	1484.9	77.3	1087	4.08	33.3	54.0	<0.1	16	<0.1	0.2	0.2	35	0.67	0.003
1542005	Rock	4.48	<0.1	10.8	0.4	16	<0.1	1432.0	74.9	871	3.63	16.5	8.0	<0.1	17	<0.1	<0.1	<0.1	29	1.17	0.002
1542006	Rock	1.36	<0.1	9.3	0.8	14	<0.1	1458.4	68.3	1026	4.00	23.4	5.3	0.2	42	<0.1	0.4	<0.1	27	1.43	0.002
1542007	Rock	3.63	<0.1	10.0	0.6	16	<0.1	1063.0	60.3	887	3.29	8.6	4.8	<0.1	65	<0.1	0.1	<0.1	32	3.60	0.005
1542008	Rock	3.41	<0.1	3.4	1.9	66	<0.1	23.8	26.7	1009	7.20	0.6	<0.5	0.1	31	0.1	0.2	<0.1	239	1.77	0.093
1542009	Rock	3.33	<0.1	3.3	1.2	64	<0.1	37.2	28.9	924	7.16	1.4	<0.5	0.1	39	0.1	0.3	<0.1	242	2.03	0.087
1542010	Rock	2.40	0.1	30.4	0.7	31	<0.1	647.5	44.1	1411	5.35	19.6	9.9	<0.1	335	0.2	0.5	<0.1	134	9.43	0.037
1542011	Rock	3.25	<0.1	28.9	0.5	10	0.1	1081.3	56.6	1146	3.34	49.4	15.0	<0.1	471	<0.1	0.7	0.1	36	8.87	0.004
1542012	Rock Pulp	0.07	3.0	64.9	3.9	38	<0.1	7.6	8.3	346	2.82	0.6	0.5	2.7	76	<0.1	<0.1	<0.1	112	0.88	0.069
1542013	Rock	5.35	0.3	49.7	1.9	16	0.4	1283.8	58.3	956	3.48	101.0	70.4	0.1	175	<0.1	0.9	0.4	27	5.73	0.008
1542014	Rock	4.18	0.2	42.0	3.6	17	0.3	1324.0	71.0	1295	3.50	90.6	108.4	1.1	215	0.1	0.4	0.4	36	5.94	0.060
1542015	Rock	2.34	<0.1	66.4	6.4	71	<0.1	142.9	33.6	651	4.63	4.0	9.9	6.7	150	<0.1	<0.1	0.1	145	2.71	0.366
1542016	Rock	2.90	0.1	54.8	0.7	11	<0.1	1280.9	70.4	983	3.10	40.0	7.5	<0.1	118	<0.1	0.3	0.3	25	3.24	0.003
1542017	Rock	3.61	0.2	47.4	0.8	8	<0.1	1003.2	53.5	733	1.69	33.5	8.9	<0.1	130	<0.1	0.3	0.4	19	3.86	0.001
1542018	Rock Pulp	0.07	4.4	84.1	9.5	18	10.1	28.9	11.0	346	16.91	>10000	>10000	1.6	40	<0.1	4.1	2.4	17	0.94	0.054
1542019	Rock	3.96	<0.1	95.9	1.5	9	<0.1	809.3	45.6	744	1.49	20.8	12.0	<0.1	121	0.1	0.2	0.3	23	3.71	0.004
1542020	Rock	4.17	<0.1	67.8	10.9	60	<0.1	179.8	29.8	951	4.29	4.5	15.8	13.7	204	0.1	<0.1	0.1	142	3.87	0.350
1542021	Rock	4.53	0.1	32.3	3.3	57	<0.1	156.8	31.2	967	5.50	2.5	6.5	3.1	163	0.1	0.1	<0.1	179	3.45	0.143
1542022	Rock	2.76	<0.1	66.8	0.5	15	<0.1	976.7	46.9	974	2.04	19.9	2.6	<0.1	70	0.1	0.1	0.3	29	3.92	0.009
1542023	Rock	2.51	<0.1	9.0	0.6	76	<0.1	84.6	35.5	744	7.22	1.5	1.5	0.1	32	<0.1	0.1	<0.1	270	1.23	0.074
1542024	Rock	2.50	<0.1	9.3	0.5	87	<0.1	229.1	46.4	1410	8.18	2.2	10.7	<0.1	65	<0.1	<0.1	<0.1	259	2.39	0.053
1542025	Rock	3.79	0.1	13.4	0.9	19	0.2	913.4	54.2	1394	3.79	62.5	77.6	<0.1	340	0.1	0.7	0.1	58	7.22	0.011
1542026	Rock	1.81	0.1	14.1	1.3	19	<0.1	855.9	50.0	1453	3.78	52.9	89.7	0.3	477	0.2	0.5	0.1	55	7.87	0.020
1542027	Rock	2.84	<0.1	59.5	7.3	68	0.1	205.4	38.2	806	5.18	6.1	6.4	14.9	204	<0.1	0.2	0.1	148	3.61	0.478
1542028	Rock	2.71	<0.1	62.3	6.7	72	<0.1	149.0	35.4	660	5.10	9.0	5.6	14.6	200	0.2	0.2	<0.1	148	3.32	0.499
1542029	Rock	4.05	0.2	17.9	2.5	16	0.2	1247.7	71.8	1529	3.45	108.4	34.1	0.5	497	<0.1	0.9	0.2	38	8.55	0.017
1542030	Rock	3.31	<0.1	56.5	5.7	66	0.1	124.5	34.7	701	4.89	13.0	19.1	14.2	236	0.2	0.3	0.1	141	4.00	0.468

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	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1542001	Rock	6	388	7.40	236	0.208	<20	1.27	0.070	0.03	0.2	<0.01	7.4	<0.1	<0.05	3	<0.5	<0.2
1542002	Rock	7	733	10.27	114	0.007	<20	1.12	0.003	<0.01	0.3	<0.01	10.4	<0.1	<0.05	4	<0.5	<0.2
1542003	Rock	2	536	7.29	67	0.010	<20	2.13	0.005	0.01	<0.1	<0.01	13.9	<0.1	<0.05	6	<0.5	<0.2
1542004	Rock	<1	612	8.16	46	0.006	<20	0.70	0.002	<0.01	0.1	<0.01	8.8	<0.1	<0.05	2	<0.5	<0.2
1542005	Rock	<1	698	10.87	34	0.002	21	0.43	0.002	<0.01	<0.1	<0.01	8.0	<0.1	<0.05	<1	<0.5	<0.2
1542006	Rock	<1	625	9.90	33	0.002	<20	0.36	<0.001	<0.01	<0.1	<0.01	7.8	<0.1	<0.05	<1	<0.5	<0.2
1542007	Rock	<1	553	9.62	16	0.005	<20	0.54	<0.001	<0.01	<0.1	<0.01	8.5	<0.1	<0.05	2	<0.5	<0.2
1542008	Rock	3	13	3.66	44	0.272	<20	4.05	0.120	0.08	<0.1	<0.01	14.9	<0.1	<0.05	12	<0.5	<0.2
1542009	Rock	3	12	4.30	62	0.163	<20	4.23	0.117	0.10	<0.1	<0.01	14.8	<0.1	<0.05	11	<0.5	<0.2
1542010	Rock	2	277	9.12	28	0.003	<20	3.13	0.001	<0.01	<0.1	<0.01	18.2	<0.1	<0.05	5	<0.5	<0.2
1542011	Rock	<1	475	7.16	26	0.002	<20	0.86	0.002	<0.01	<0.1	<0.01	7.0	<0.1	<0.05	2	<0.5	<0.2
1542012	Rock Pulp	8	16	0.64	127	0.120	<20	1.53	0.183	0.22	6.4	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
1542013	Rock	<1	480	5.67	35	0.002	<20	1.09	0.004	0.05	0.2	<0.01	7.4	<0.1	<0.05	3	<0.5	<0.2
1542014	Rock	6	413	5.01	116	0.004	<20	0.86	0.006	0.03	0.1	<0.01	8.5	<0.1	<0.05	3	<0.5	<0.2
1542015	Rock	57	372	8.08	618	0.239	<20	3.65	0.030	0.61	<0.1	<0.01	14.2	0.2	<0.05	10	<0.5	<0.2
1542016	Rock	<1	698	6.33	28	0.001	<20	0.40	<0.001	<0.01	<0.1	<0.01	7.7	<0.1	<0.05	1	<0.5	<0.2
1542017	Rock	<1	564	3.54	18	<0.001	<20	0.37	0.001	<0.01	<0.1	<0.01	6.4	<0.1	<0.05	1	<0.5	<0.2
1542018	Rock Pulp	6	29	0.84	22	0.021	<20	1.40	0.051	0.23	39.7	<0.01	1.9	0.1	6.45	5	2.5	1.1
1542019	Rock	<1	527	3.80	29	<0.001	<20	0.57	0.001	<0.01	<0.1	<0.01	7.2	<0.1	<0.05	2	<0.5	<0.2
1542020	Rock	81	259	5.29	1081	0.232	<20	2.55	0.075	0.62	<0.1	<0.01	15.2	0.2	<0.05	12	<0.5	<0.2
1542021	Rock	21	138	6.43	342	0.119	<20	4.07	0.045	0.26	<0.1	0.01	20.0	<0.1	<0.05	10	<0.5	<0.2
1542022	Rock	<1	242	4.58	21	0.004	<20	0.82	<0.001	<0.01	<0.1	<0.01	6.2	<0.1	<0.05	3	<0.5	<0.2
1542023	Rock	3	74	6.61	176	0.042	<20	5.25	0.070	0.31	<0.1	<0.01	24.3	<0.1	<0.05	14	<0.5	<0.2
1542024	Rock	3	189	8.30	46	0.015	<20	5.50	0.004	0.07	<0.1	<0.01	30.1	<0.1	<0.05	13	<0.5	<0.2
1542025	Rock	<1	588	5.09	29	0.002	<20	1.03	0.002	0.02	<0.1	<0.01	11.0	<0.1	<0.05	3	<0.5	<0.2
1542026	Rock	2	539	5.70	37	0.003	<20	1.10	0.003	0.03	<0.1	<0.01	10.9	<0.1	<0.05	3	<0.5	<0.2
1542027	Rock	90	428	8.02	275	0.048	<20	3.71	0.039	0.13	<0.1	<0.01	17.6	<0.1	<0.05	13	<0.5	<0.2
1542028	Rock	87	441	7.94	413	0.069	<20	3.77	0.043	0.18	<0.1	<0.01	18.4	<0.1	<0.05	13	<0.5	<0.2
1542029	Rock	3	463	6.15	61	<0.001	<20	0.81	0.003	0.02	<0.1	<0.01	8.0	<0.1	<0.05	3	<0.5	<0.2
1542030	Rock	82	363	6.71	322	0.051	<20	3.49	0.041	0.17	<0.1	<0.01	16.1	<0.1	<0.05	12	<0.5	<0.2

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Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1542031	Rock	3.11	0.2	54.0	4.7	67	<0.1	143.9	34.1	705	5.05	6.7	4.2	14.1	223	0.2	0.2	0.1	146	3.99	0.469
1542032	Rock	4.21	0.1	12.9	2.6	12	0.3	1249.7	67.9	1197	3.71	102.1	21.2	0.2	265	<0.1	2.2	0.1	24	7.19	0.008
1542033	Rock	5.11	0.3	9.5	0.8	25	<0.1	745.0	43.9	968	3.26	207.7	75.4	0.2	247	0.1	1.9	<0.1	52	6.38	0.006
1542034	Rock	6.81	0.4	19.6	1.1	36	<0.1	93.9	24.2	477	3.37	2.2	3.6	0.5	56	<0.1	0.2	<0.1	122	1.17	0.024
1542035	Rock	6.10	0.2	180.4	0.7	43	0.2	98.2	25.8	530	3.59	2.8	2.4	0.1	37	0.2	0.2	<0.1	132	0.86	0.020
1542036	Rock	6.08	0.2	56.3	0.8	77	<0.1	49.3	35.2	1032	6.18	8.4	8.5	<0.1	47	<0.1	0.6	<0.1	255	1.22	0.044
1542037	Rock	7.02	<0.1	59.1	0.6	61	<0.1	46.0	29.2	717	4.63	9.7	5.3	0.1	39	<0.1	0.5	<0.1	197	1.00	0.045
1542038	Rock	2.71	0.1	61.0	0.5	59	<0.1	45.3	31.3	692	4.59	7.5	1.1	0.1	37	<0.1	0.5	<0.1	192	0.97	0.044
1542039	Rock	6.23	1.1	45.6	0.8	59	<0.1	133.6	30.5	803	4.48	4.4	2.6	1.1	48	0.1	0.1	<0.1	155	1.33	0.046
1542040	Rock	6.33	2.5	6.6	0.8	41	<0.1	170.8	25.4	554	3.25	3.8	1.3	1.7	39	<0.1	<0.1	<0.1	97	1.49	0.042
1542041	Rock	5.11	2.3	4.3	0.9	38	<0.1	165.6	21.6	666	3.14	18.7	3.9	1.7	48	<0.1	0.2	<0.1	73	2.05	0.040
1542042	Rock	3.02	0.3	82.2	1.3	13	0.4	1380.4	76.7	609	3.07	698.4	20.5	<0.1	115	<0.1	17.9	0.2	17	3.09	<0.001
1542043	Rock Pulp	0.06	2.8	62.4	4.1	36	<0.1	6.6	7.8	319	2.64	0.9	1.3	2.9	65	<0.1	<0.1	<0.1	103	0.77	0.065
1542044	Rock	5.11	<0.1	54.3	0.4	14	<0.1	1152.8	60.5	875	3.26	43.9	17.9	<0.1	43	0.1	0.5	0.2	37	3.10	0.005
1542045	Rock	4.46	<0.1	16.0	0.4	33	<0.1	661.7	57.9	848	5.65	13.2	2.5	<0.1	56	0.1	<0.1	<0.1	179	2.88	0.028
1542046	Rock	6.36	<0.1	17.9	0.4	11	<0.1	1129.4	63.2	828	3.85	44.5	24.8	<0.1	43	<0.1	0.3	0.1	45	1.29	0.005
1542047	Rock	6.58	<0.1	31.5	0.6	9	0.2	1362.5	78.2	986	4.23	61.0	16.0	<0.1	27	<0.1	1.0	0.1	31	0.83	0.004
1542048	Rock	5.42	0.1	8.9	0.6	10	0.2	1057.5	58.0	794	3.40	235.8	42.3	<0.1	36	<0.1	4.9	<0.1	23	1.66	<0.001
1542049	Rock	4.17	0.4	12.8	0.9	83	<0.1	75.0	49.5	1119	9.42	1.2	5.1	0.1	86	0.1	0.3	<0.1	345	2.53	0.059
1542050	Rock	4.83	<0.1	11.6	0.7	10	<0.1	1173.9	66.2	726	3.32	14.1	10.4	<0.1	38	<0.1	<0.1	<0.1	25	0.97	0.002
1542051	Rock	5.79	<0.1	13.2	0.9	12	<0.1	1267.7	73.7	804	3.58	10.1	2.1	<0.1	41	<0.1	<0.1	<0.1	40	0.97	0.002
1542052	Rock Pulp	0.07	3.6	115.3	4.5	41	1.0	8.1	9.5	393	2.76	140.9	221.2	2.8	68	0.1	1.2	0.1	96	0.82	0.053
1542053	Rock	7.06	<0.1	11.2	0.9	15	<0.1	1341.3	77.7	775	3.87	3.8	<0.5	<0.1	60	<0.1	<0.1	<0.1	52	1.34	0.002
1542054	Rock	5.74	<0.1	7.9	1.3	19	<0.1	1431.9	74.3	839	4.26	4.4	1.5	<0.1	80	<0.1	0.2	<0.1	60	2.11	0.004
1542055	Rock	6.21	<0.1	10.1	1.3	20	<0.1	1506.0	79.0	994	4.48	2.5	2.8	<0.1	99	<0.1	0.2	<0.1	53	2.45	0.006
1542056	Rock	3.19	<0.1	12.0	1.0	19	<0.1	1723.6	81.9	756	4.00	3.0	1.1	<0.1	64	<0.1	0.1	<0.1	30	1.20	0.005
1542057	Rock	6.63	0.2	11.8	1.1	11	0.5	1240.1	66.3	701	3.34	688.2	967.2	<0.1	118	<0.1	5.5	<0.1	23	2.52	<0.001
1542058	Rock	3.42	<0.1	9.5	1.1	15	<0.1	1269.5	65.0	808	3.61	7.5	3.4	<0.1	163	<0.1	0.2	<0.1	50	4.23	0.002
1542059	Rock	4.91	1.2	16.5	1.0	11	0.3	1338.3	77.3	757	3.93	152.8	36.3	<0.1	98	<0.1	1.2	<0.1	28	2.60	0.001
1542060	Rock	6.08	<0.1	29.8	1.8	19	<0.1	1537.0	80.1	995	4.28	52.7	16.5	<0.1	48	<0.1	0.5	<0.1	34	1.47	0.002

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Project: Yellow Jacket
Report Date: September 06, 2016

CERTIFICATE OF ANALYSIS WHI16000151.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1542031	Rock	86	385	6.96	191	0.037	<20	3.66	0.037	0.15	<0.1	0.02	16.2	<0.1	0.08	13	<0.5	<0.2
1542032	Rock	1	503	11.71	24	<0.001	<20	0.45	0.003	0.01	0.2	<0.01	7.5	<0.1	0.06	2	<0.5	<0.2
1542033	Rock	2	365	8.37	13	0.002	<20	1.24	0.005	0.03	<0.1	<0.01	12.4	<0.1	0.13	3	<0.5	<0.2
1542034	Rock	3	226	3.46	240	0.100	<20	2.26	0.102	0.52	<0.1	<0.01	13.3	0.1	<0.05	7	<0.5	<0.2
1542035	Rock	1	240	3.30	37	0.097	<20	2.22	0.112	0.14	<0.1	<0.01	13.2	<0.1	<0.05	8	<0.5	<0.2
1542036	Rock	3	130	4.92	199	0.160	<20	3.59	0.092	0.75	<0.1	<0.01	24.4	0.2	0.27	13	<0.5	<0.2
1542037	Rock	3	77	3.28	190	0.195	<20	2.79	0.144	0.62	<0.1	0.02	15.4	0.2	0.16	10	<0.5	<0.2
1542038	Rock	2	73	3.24	184	0.203	<20	2.77	0.146	0.60	<0.1	0.01	15.1	0.2	0.16	10	<0.5	<0.2
1542039	Rock	8	299	4.71	302	0.112	<20	2.94	0.096	0.47	<0.1	<0.01	16.1	0.1	<0.05	10	<0.5	<0.2
1542040	Rock	9	368	4.20	186	0.070	<20	2.35	0.087	0.30	<0.1	<0.01	12.9	<0.1	<0.05	9	<0.5	<0.2
1542041	Rock	8	288	4.16	224	0.082	<20	2.14	0.079	0.41	<0.1	<0.01	11.0	<0.1	<0.05	6	<0.5	<0.2
1542042	Rock	<1	330	12.12	6	0.001	<20	0.32	0.003	0.05	<0.1	<0.01	7.1	<0.1	0.15	1	<0.5	<0.2
1542043	Rock Pulp	7	16	0.59	125	0.112	<20	1.37	0.159	0.21	6.2	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
1542044	Rock	<1	320	8.05	3	0.002	<20	0.95	0.002	<0.01	<0.1	<0.01	9.7	<0.1	0.35	3	<0.5	<0.2
1542045	Rock	<1	268	12.47	3	0.006	<20	4.47	0.003	<0.01	<0.1	<0.01	24.4	<0.1	0.09	8	<0.5	<0.2
1542046	Rock	<1	345	11.62	2	0.002	<20	1.09	0.003	<0.01	<0.1	<0.01	9.7	<0.1	0.13	2	<0.5	<0.2
1542047	Rock	<1	515	13.21	3	0.001	<20	0.67	0.002	0.02	<0.1	<0.01	9.7	<0.1	0.15	2	<0.5	<0.2
1542048	Rock	<1	445	12.26	3	0.001	<20	0.42	0.002	0.02	<0.1	<0.01	8.3	<0.1	0.07	1	<0.5	<0.2
1542049	Rock	3	89	9.29	26	0.014	<20	6.55	0.023	0.16	<0.1	<0.01	33.6	<0.1	<0.05	13	<0.5	<0.2
1542050	Rock	<1	436	10.61	2	<0.001	<20	0.36	0.001	<0.01	<0.1	<0.01	7.5	<0.1	0.07	1	<0.5	<0.2
1542051	Rock	<1	675	12.29	2	0.003	<20	0.70	0.002	<0.01	<0.1	<0.01	9.0	<0.1	0.08	2	<0.5	<0.2
1542052	Rock Pulp	7	15	0.78	127	0.122	<20	1.58	0.156	0.23	5.9	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
1542053	Rock	<1	758	14.80	2	0.004	<20	0.95	0.003	<0.01	<0.1	<0.01	12.3	<0.1	0.06	2	<0.5	<0.2
1542054	Rock	<1	501	16.96	5	0.008	28	1.26	0.005	<0.01	<0.1	0.01	12.7	<0.1	0.08	3	<0.5	<0.2
1542055	Rock	<1	740	17.47	10	0.007	27	1.01	0.004	<0.01	<0.1	<0.01	11.0	<0.1	0.12	3	<0.5	<0.2
1542056	Rock	<1	634	15.89	19	0.005	26	0.52	0.003	<0.01	<0.1	<0.01	7.8	<0.1	0.08	1	<0.5	<0.2
1542057	Rock	<1	326	12.93	5	<0.001	<20	0.31	0.002	0.02	<0.1	<0.01	7.0	<0.1	0.08	1	<0.5	<0.2
1542058	Rock	<1	660	12.87	6	0.002	<20	0.82	0.004	<0.01	<0.1	<0.01	10.6	<0.1	0.09	2	<0.5	<0.2
1542059	Rock	<1	512	13.91	8	0.002	<20	0.43	0.004	<0.01	<0.1	0.01	7.5	<0.1	0.11	1	<0.5	<0.2
1542060	Rock	<1	556	14.75	3	0.003	25	0.51	0.002	0.01	<0.1	<0.01	10.6	<0.1	0.11	1	<0.5	<0.2

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Project: Yellow Jacket
Report Date: September 06, 2016

CERTIFICATE OF ANALYSIS WHI16000151.1

	Method	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1542061	Rock	3.88	0.3	16.7	0.6	19	0.1	1372.3	76.8	1264	3.87	52.3	157.6	<0.1	148	<0.1	0.9	<0.1	58	4.35	0.005
1542062	Rock	3.85	0.3	13.2	5.0	16	<0.1	1062.1	67.9	899	3.06	40.4	11.8	0.1	121	<0.1	0.3	<0.1	33	3.98	0.007
1542063	Rock	2.37	1.8	4.3	4.4	59	0.1	158.8	18.7	229	6.02	12.3	82.4	2.3	108	0.1	0.3	<0.1	68	0.76	0.039
1542064	Rock	4.07	0.3	19.2	0.6	7	0.1	1295.3	66.7	769	3.26	165.7	352.1	<0.1	169	<0.1	3.2	0.2	14	2.89	<0.001
1542065	Rock	2.72	0.2	81.8	0.8	12	0.4	1279.3	64.3	696	3.06	79.4	48.9	0.1	135	<0.1	0.7	0.1	21	3.26	0.004
1542066	Rock	5.04	0.4	102.5	1.3	74	0.2	92.3	32.4	664	6.42	7.9	26.6	0.3	57	0.2	0.3	<0.1	311	1.51	0.046
1542067	Rock Pulp	0.07	2.9	62.0	4.2	34	<0.1	7.2	7.8	324	2.71	0.9	2.7	2.9	65	<0.1	<0.1	<0.1	106	0.78	0.071
1542068	Rock	4.24	0.3	91.7	0.8	75	<0.1	21.0	28.7	530	6.23	<0.5	26.2	0.2	27	0.2	0.2	<0.1	310	0.69	0.043
1542069	Rock	4.02	0.2	355.5	5.7	81	0.5	23.6	33.2	905	6.61	18.4	90.0	0.1	59	0.7	0.4	<0.1	304	1.45	0.052
1542070	Rock	1.47	0.2	325.3	1.0	83	0.4	24.7	33.6	933	6.78	6.2	44.4	0.1	53	0.6	0.2	<0.1	320	1.38	0.049
1542071	Rock	3.96	0.3	291.9	2.4	67	1.2	57.8	46.8	1555	7.60	20.2	587.9	<0.1	90	0.3	1.2	0.2	276	2.34	0.131
1542072	Rock	6.19	0.3	134.2	1.1	80	<0.1	23.4	30.8	593	6.36	4.2	6.2	0.1	39	0.3	0.2	<0.1	282	1.03	0.061
1542073	Rock	4.22	0.2	82.5	4.3	78	0.7	27.1	36.2	1170	7.41	161.6	407.3	<0.1	131	0.2	1.8	<0.1	245	2.61	0.049
1542074	Rock	8.11	0.4	92.3	1.1	62	<0.1	20.7	24.7	518	4.88	1.6	1.4	<0.1	29	0.1	0.2	<0.1	208	1.14	0.052
1542075	Rock	5.23	0.3	63.8	0.8	62	<0.1	26.6	28.4	530	4.86	1.9	0.7	<0.1	35	0.2	0.1	<0.1	202	1.27	0.054
1542076	Rock	5.42	0.2	52.2	0.4	56	<0.1	41.6	26.9	740	4.40	<0.5	<0.5	<0.1	34	0.1	<0.1	<0.1	177	1.39	0.049
1542077	Rock	4.46	0.3	77.1	0.8	57	<0.1	40.4	29.6	538	4.33	<0.5	<0.5	<0.1	42	0.1	0.2	<0.1	173	1.54	0.052
1542078	Rock	5.50	0.3	130.4	1.5	70	0.3	59.0	44.4	1067	7.30	23.0	136.1	<0.1	131	0.3	0.7	<0.1	253	3.34	0.044
1542079	Rock	5.86	0.3	57.0	0.5	55	<0.1	56.6	29.6	763	5.06	<0.5	<0.5	<0.1	77	0.1	0.2	<0.1	205	2.78	0.044
1542080	Rock	5.81	0.2	71.2	0.7	60	<0.1	53.5	30.1	690	4.80	11.0	25.4	<0.1	61	0.1	0.3	<0.1	176	2.44	0.061

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Project: Yellow Jacket
Report Date: September 06, 2016

CERTIFICATE OF ANALYSIS WHI16000151.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1542061	Rock	<1	617	9.93	15	0.003	<20	1.24	0.003	0.02	<0.1	<0.01	12.3	<0.1	0.15	3	<0.5	<0.2
1542062	Rock	<1	824	8.84	25	0.002	<20	1.27	0.002	<0.01	<0.1	<0.01	10.4	<0.1	0.07	2	<0.5	<0.2
1542063	Rock	10	122	9.18	46	0.006	<20	4.59	0.038	0.07	<0.1	<0.01	15.6	<0.1	0.22	9	<0.5	<0.2
1542064	Rock	<1	393	11.73	4	<0.001	<20	0.19	0.002	0.01	<0.1	<0.01	6.6	<0.1	0.13	<1	<0.5	<0.2
1542065	Rock	<1	389	8.14	8	<0.001	<20	0.72	0.003	0.02	<0.1	<0.01	7.4	<0.1	0.38	2	<0.5	<0.2
1542066	Rock	3	77	3.96	167	0.106	<20	2.99	0.086	0.56	<0.1	<0.01	25.0	0.2	0.17	12	<0.5	<0.2
1542067	Rock Pulp	7	17	0.61	123	0.111	<20	1.40	0.161	0.21	5.7	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
1542068	Rock	3	15	2.85	118	0.139	<20	2.81	0.125	0.61	<0.1	<0.01	22.0	0.4	<0.05	12	<0.5	<0.2
1542069	Rock	3	33	3.41	82	0.085	<20	2.94	0.130	0.21	<0.1	<0.01	27.5	0.1	0.28	12	<0.5	<0.2
1542070	Rock	3	35	3.45	115	0.097	<20	3.12	0.122	0.32	<0.1	<0.01	26.1	0.1	0.11	13	<0.5	<0.2
1542071	Rock	3	82	3.86	98	0.039	<20	3.12	0.080	0.16	<0.1	<0.01	28.5	0.1	1.11	12	<0.5	<0.2
1542072	Rock	2	44	2.87	156	0.208	<20	2.86	0.163	0.61	<0.1	<0.01	23.7	0.3	0.13	12	<0.5	<0.2
1542073	Rock	2	42	3.32	80	0.094	<20	2.49	0.096	0.28	<0.1	<0.01	27.6	0.2	1.62	10	0.5	<0.2
1542074	Rock	2	27	2.19	58	0.232	<20	2.33	0.215	0.41	0.1	<0.01	15.7	0.2	0.10	10	<0.5	<0.2
1542075	Rock	2	42	2.64	46	0.186	<20	2.53	0.190	0.33	<0.1	<0.01	14.4	0.1	<0.05	10	<0.5	<0.2
1542076	Rock	1	88	3.52	224	0.255	<20	3.05	0.137	0.80	<0.1	<0.01	15.6	0.2	<0.05	10	<0.5	<0.2
1542077	Rock	2	93	2.81	120	0.266	<20	2.55	0.162	0.46	<0.1	<0.01	16.4	0.1	0.12	9	1.0	<0.2
1542078	Rock	2	143	4.96	177	0.110	<20	3.88	0.088	0.40	<0.1	<0.01	28.8	0.1	0.65	13	<0.5	<0.2
1542079	Rock	2	120	3.67	102	0.250	<20	2.91	0.181	0.33	<0.1	<0.01	21.6	<0.1	0.14	10	<0.5	<0.2
1542080	Rock	2	110	3.04	72	0.233	<20	2.71	0.195	0.28	<0.1	<0.01	18.2	<0.1	0.27	9	<0.5	<0.2

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Project: Yellow Jacket
Report Date: September 06, 2016

QUALITY CONTROL REPORT WHI16000151.1

	Method	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1542024	Rock	2.50	<0.1	9.3	0.5	87	<0.1	229.1	46.4	1410	8.18	2.2	10.7	<0.1	65	<0.1	<0.1	<0.1	259	2.39	0.053
REP 1542024	QC		<0.1	9.1	0.5	88	<0.1	228.2	47.1	1423	8.14	2.0	12.8	<0.1	65	0.1	<0.1	<0.1	260	2.39	0.051
1542057	Rock	6.63	0.2	11.8	1.1	11	0.5	1240.1	66.3	701	3.34	688.2	967.2	<0.1	118	<0.1	5.5	<0.1	23	2.52	<0.001
REP 1542057	QC		0.3	11.3	1.0	11	0.7	1243.1	70.8	693	3.36	686.1	1750.9	<0.1	115	<0.1	7.0	<0.1	22	2.53	<0.001
Core Reject Duplicates																					
1542011	Rock	3.25	<0.1	28.9	0.5	10	0.1	1081.3	56.6	1146	3.34	49.4	15.0	<0.1	471	<0.1	0.7	0.1	36	8.87	0.004
DUP 1542011	QC		0.1	29.3	0.5	10	0.1	1086.5	56.4	1161	3.38	49.2	25.4	<0.1	472	<0.1	0.7	0.1	36	8.97	0.004
1542045	Rock	4.46	<0.1	16.0	0.4	33	<0.1	661.7	57.9	848	5.65	13.2	2.5	<0.1	56	0.1	<0.1	<0.1	179	2.88	0.028
DUP 1542045	QC		<0.1	16.4	0.4	34	<0.1	665.0	55.3	801	5.36	11.9	4.6	<0.1	58	<0.1	<0.1	<0.1	170	2.81	0.025
1542079	Rock	5.86	0.3	57.0	0.5	55	<0.1	56.6	29.6	763	5.06	<0.5	<0.5	<0.1	77	0.1	0.2	<0.1	205	2.78	0.044
DUP 1542079	QC		0.2	59.4	0.5	56	<0.1	55.6	31.0	765	5.11	<0.5	<0.5	<0.1	74	<0.1	0.1	<0.1	204	2.76	0.041
Reference Materials																					
STD DS10	Standard		14.0	164.2	148.2	370	1.7	76.1	13.9	891	2.79	44.8	127.3	8.4	66	2.9	9.3	12.4	42	1.10	0.074
STD DS10	Standard		13.7	167.7	160.6	383	1.8	79.3	13.9	917	2.80	49.0	100.1	8.2	70	2.9	8.5	13.0	43	1.11	0.076
STD DS10	Standard		15.9	154.4	157.8	373	2.1	83.0	15.4	907	2.99	46.8	59.6	8.2	79	2.5	8.2	14.0	46	1.19	0.082
STD OREAS45EA	Standard		1.7	704.4	14.9	32	0.3	387.7	50.0	429	20.75	11.8	57.5	10.4	4	<0.1	0.4	0.3	308	0.03	0.029
STD OREAS45EA	Standard		1.7	726.9	17.1	33	0.3	400.9	51.1	442	22.60	12.5	58.3	12.0	4	<0.1	0.3	0.3	322	0.03	0.027
STD OREAS45EA	Standard		1.4	663.2	14.5	33	0.2	373.3	58.2	390	24.59	11.2	63.4	10.6	4	<0.1	0.2	0.3	340	0.04	0.032
STD DS10 Expected			13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765
STD OREAS45EA Expected			1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036	0.029
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	0.2	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
ROCK-WHI	Prep Blank		0.7	6.8	1.5	35	<0.1	4.5	4.1	450	1.90	0.5	0.6	2.5	40	<0.1	<0.1	<0.1	25	0.75	0.043
ROCK-WHI	Prep Blank		0.5	7.2	1.4	33	<0.1	11.1	4.3	448	1.84	0.9	<0.5	2.4	34	<0.1	<0.1	<0.1	24	0.72	0.041

MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Project: Yellow Jacket
Report Date: September 06, 2016

QUALITY CONTROL REPORT WHI16000151.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1542024	Rock	3	189	8.30	46	0.015	<20	5.50	0.004	0.07	<0.1	<0.01	30.1	<0.1	<0.05	13	<0.5	<0.2
REP 1542024	QC	3	184	8.13	45	0.015	<20	5.61	0.004	0.07	<0.1	<0.01	29.9	<0.1	<0.05	14	<0.5	<0.2
1542057	Rock	<1	326	12.93	5	<0.001	<20	0.31	0.002	0.02	<0.1	<0.01	7.0	<0.1	0.08	1	<0.5	<0.2
REP 1542057	QC	<1	317	12.97	5	<0.001	<20	0.31	0.004	0.02	<0.1	<0.01	6.6	<0.1	0.08	<1	<0.5	<0.2
Core Reject Duplicates																		
1542011	Rock	<1	475	7.16	26	0.002	<20	0.86	0.002	<0.01	<0.1	<0.01	7.0	<0.1	<0.05	2	<0.5	<0.2
DUP 1542011	QC	<1	469	7.18	25	0.002	<20	0.93	0.002	<0.01	<0.1	<0.01	7.2	<0.1	<0.05	2	<0.5	<0.2
1542045	Rock	<1	268	12.47	3	0.006	<20	4.47	0.003	<0.01	<0.1	<0.01	24.4	<0.1	0.09	8	<0.5	<0.2
DUP 1542045	QC	<1	276	12.01	3	0.006	<20	4.13	0.003	<0.01	<0.1	<0.01	25.6	<0.1	0.09	8	<0.5	<0.2
1542079	Rock	2	120	3.67	102	0.250	<20	2.91	0.181	0.33	<0.1	<0.01	21.6	<0.1	0.14	10	<0.5	<0.2
DUP 1542079	QC	2	122	3.69	104	0.251	<20	2.94	0.187	0.33	<0.1	<0.01	21.6	<0.1	0.14	10	<0.5	<0.2
Reference Materials																		
STD DS10	Standard	17	54	0.78	394	0.082	<20	1.03	0.067	0.34	3.2	0.28	2.8	5.1	0.28	4	1.9	4.9
STD DS10	Standard	19	56	0.80	422	0.084	<20	1.06	0.070	0.35	2.9	0.29	2.9	5.2	0.28	4	2.5	5.0
STD DS10	Standard	20	57	0.84	443	0.098	<20	1.19	0.080	0.37	3.2	0.32	3.2	5.4	0.30	5	1.9	5.1
STD OREAS45EA	Standard	7	806	0.09	145	0.100	<20	3.20	0.020	0.05	<0.1	<0.01	77.4	<0.1	<0.05	12	1.0	<0.2
STD OREAS45EA	Standard	8	853	0.09	159	0.108	<20	3.37	0.022	0.05	<0.1	0.01	85.2	<0.1	<0.05	13	1.1	<0.2
STD OREAS45EA	Standard	8	808	0.11	141	0.120	<20	3.05	0.025	0.06	<0.1	<0.01	88.9	<0.1	<0.05	12	1.7	<0.2
STD DS10 Expected		17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OREAS45EA Expected		7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
ROCK-WHI	Prep Blank	6	4	0.45	85	0.110	<20	1.14	0.118	0.12	0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	6	6	0.51	77	0.109	<20	1.09	0.119	0.12	0.1	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2

BUREAU VERITAS MINERAL LABORATORIES Canada

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PHONE (604) 253-3158

Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Submitted By: Irwin Olian
Receiving Lab: Canada-Whitehorse
Received: September 07, 2016
Report Date: September 16, 2016

CERTIFICATE OF ANALYSIS WHI16000151M.1

CLIENT JOB INFORMATION

Project: Yellow Jacket
Shipment ID:
P.O. Number
Number of Samples: 1

SAMPLE DISPOSAL

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PUL85	1	Pulverize to 85% passing 200 mesh			VAN
FS652	1	Metallic Sieve 1 kg to 150 mesh - save + and - fraction		Completed	VAN
FS652	1	Metallic Fire Assay - duplicate minus fraction analysis	50	Completed	VAN
SHP01	1	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: African Queen Mines Ltd.
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8
Canada

CC: Reinhard Ramdohr

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Geochemical Laboratory Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Project: Yellow Jacket
Report Date: September 16, 2016

CERTIFICATE OF ANALYSIS   WHI16000151M.1

	Method	M150 1kg	FA450	FA450	FS652	FS652	FS652
	Analyte	TotWt	-Au	-Au	+ Au Wt	+ Au	Au Total
	Unit	g	gm/t	gm/t	g	gm/t	gm/t
	MDL	1	0.005	0.005	0.01	0.17	0.1
1542057	Rock	1016	1.577	1.777	25.15	64.97	3.2

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Project: Yellow Jacket
Report Date: September 16, 2016

QUALITY CONTROL REPORT WHI16000151M.1

	Method	WEI150 1kg	FA450	FA450	FS652	FS652	FS652
	Analyte	TotWt	-Au	-Au	+ Au Wt	+ Au	Au Total
	Unit	g	gm/t	gm/t	g	gm/t	gm/t
	MDL	1	0.005	0.005	0.01	0.17	0.1
Reference Materials							
STD OXD108	Standard		0.426				
STD OXD108	Standard			0.418			
STD OXI121	Standard		1.827				
STD OXI121	Standard			1.830			
STD OXN117	Standard		7.779				
STD OXN117	Standard			7.907			
STD OXP91	Standard				49.30	15.17	
STD OXP91 Expected						14.82	
BLK	Blank		<0.005				
BLK	Blank		<0.005				
BLK	Blank				50.00	<0.17	
BLK	Blank			<0.005			
Prep Wash							
ROCK-WHI	Prep Blank	955	<0.005	<0.005	27.47	<0.17	<0.1

BUREAU VERITAS MINERAL LABORATORIES Canada

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Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Submitted By: Irwin Olian
Receiving Lab: Canada-Whitehorse
Received: August 08, 2016
Report Date: September 06, 2016
Page: 1 of 5

CERTIFICATE OF ANALYSIS WHI16000160.1

CLIENT JOB INFORMATION

Project: Yellow Jacket
Shipment ID:
P.O. Number
Number of Samples: 120

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	111	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ200	120	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	120	Per sample shipping charges for branch shipments			VAN
SLBHP	9	Sort, label and box pulps			VAN

ADDITIONAL COMMENTS

Invoice To: African Queen Mines Ltd.
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8
Canada

CC: Reinhard Ramdohr

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Geochemical Laboratory Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

BUREAU VERITAS MINERAL LABORATORIES Canada

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Suite 1450 - 650 West Georgia Street
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Project: Yellow Jacket
Report Date: September 06, 2016

CERTIFICATE OF ANALYSIS WHI16000160.1

Method		WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1542501	Drill Core	4.37	0.2	15.4	1.3	13	<0.1	991.4	57.5	1013	3.17	15.9	11.8	<0.1	15	<0.1	0.3	<0.1	40	0.65	0.008
1542502	Drill Core	5.92	<0.1	11.8	1.0	12	<0.1	1265.9	72.5	942	3.55	38.4	18.1	<0.1	23	<0.1	0.3	<0.1	29	0.90	0.002
1542503	Drill Core	3.95	<0.1	16.9	1.0	12	<0.1	1199.9	69.8	1083	3.98	16.6	0.6	<0.1	28	0.1	0.2	<0.1	55	2.29	0.004
1542504	Drill Core	4.18	<0.1	10.4	0.6	9	<0.1	1242.6	61.3	833	2.92	44.1	22.3	<0.1	22	<0.1	0.4	<0.1	18	1.49	0.002
1542505	Drill Core	2.46	0.1	46.7	1.7	10	<0.1	998.9	51.8	961	2.62	23.7	12.4	<0.1	165	<0.1	0.4	0.2	18	5.70	0.006
1542506	Drill Core	2.67	0.1	25.7	5.3	73	<0.1	39.2	14.3	574	3.43	0.7	2.2	1.5	42	<0.1	<0.1	<0.1	63	1.36	0.142
1542507	Drill Core	2.13	0.1	29.6	3.7	71	<0.1	71.1	15.2	569	3.32	1.1	1.4	1.4	48	<0.1	<0.1	<0.1	65	1.37	0.134
1542508	Drill Core	4.22	<0.1	31.6	0.5	10	<0.1	1410.6	66.3	619	3.13	57.9	16.0	<0.1	24	<0.1	0.3	0.2	20	2.15	0.002
1542509	Drill Core	5.48	<0.1	14.6	0.5	10	<0.1	1228.8	65.7	795	3.07	24.6	14.2	<0.1	31	<0.1	0.2	<0.1	21	2.05	0.002
1542510	Drill Core	4.05	<0.1	34.7	0.9	16	<0.1	880.5	65.0	1197	5.41	8.7	2.8	<0.1	38	0.3	0.3	<0.1	159	3.38	0.060
1542511	Drill Core	3.73	<0.1	12.3	0.7	10	<0.1	825.6	48.9	1073	2.51	7.0	1.2	<0.1	38	0.1	<0.1	<0.1	28	2.58	0.003
1542512	Rock Pulp	0.07	2.5	59.3	3.5	33	0.2	6.1	8.0	308	2.60	0.6	<0.5	2.5	64	<0.1	<0.1	<0.1	101	0.72	0.066
1542513	Drill Core	6.40	<0.1	44.2	1.0	48	0.2	57.0	27.1	468	4.90	<0.5	3.1	<0.1	26	<0.1	0.1	<0.1	182	0.82	0.050
1542514	Drill Core	4.49	0.1	57.9	1.0	29	0.2	41.8	16.8	530	3.22	0.6	8.0	<0.1	31	<0.1	0.2	<0.1	113	1.76	0.047
1542515	Drill Core	2.69	<0.1	64.2	1.2	39	<0.1	388.9	57.5	1028	5.20	1.1	<0.5	<0.1	34	0.2	<0.1	<0.1	194	2.33	0.038
1542516	Drill Core	2.39	<0.1	57.5	1.0	29	<0.1	671.6	53.1	999	4.58	0.7	<0.5	<0.1	42	0.2	<0.1	<0.1	119	3.40	0.027
1542517	Drill Core	2.62	0.2	12.1	2.2	57	0.2	111.2	27.7	483	5.92	0.8	6.2	0.3	32	<0.1	0.2	<0.1	210	0.76	0.065
1542518	Rock Pulp	0.07	4.7	80.7	8.9	16	9.5	26.1	10.8	324	15.83	>10000	>10000	1.4	34	<0.1	3.9	2.0	16	0.86	0.050
1542519	Drill Core	3.23	<0.1	10.8	1.0	74	<0.1	135.8	56.7	767	9.17	2.4	22.2	<0.1	19	<0.1	<0.1	<0.1	278	0.58	0.052
1542520	Drill Core	5.42	0.1	33.3	1.7	14	<0.1	740.5	38.1	869	2.64	8.4	32.0	<0.1	211	0.1	0.1	0.2	27	6.11	0.008
1542521	Drill Core	4.73	<0.1	44.5	3.2	27	<0.1	737.2	45.4	729	3.36	19.8	5.7	2.2	142	<0.1	0.2	0.2	62	4.17	0.111
1542522	Drill Core	5.96	<0.1	17.9	0.4	8	<0.1	1138.6	61.6	772	3.15	35.6	10.6	<0.1	154	<0.1	0.1	0.2	24	2.63	0.003
1542523	Drill Core	4.41	<0.1	15.5	9.5	86	<0.1	62.3	45.0	1658	9.67	1.1	1.1	0.1	96	0.1	<0.1	<0.1	341	3.37	0.072
1542524	Drill Core	2.30	<0.1	16.2	10.4	87	<0.1	63.1	45.4	1623	9.72	1.1	15.3	<0.1	93	0.1	<0.1	<0.1	341	3.31	0.074
1542525	Drill Core	5.30	<0.1	22.0	3.0	67	<0.1	182.9	30.5	1061	5.96	1.0	4.0	0.6	93	<0.1	<0.1	<0.1	195	2.54	0.091
1542526	Drill Core	4.51	<0.1	30.3	3.6	64	<0.1	22.1	13.1	554	3.47	<0.5	4.1	1.7	55	0.2	<0.1	<0.1	72	1.21	0.141
1542527	Drill Core	3.69	<0.1	31.4	3.9	64	<0.1	19.8	12.5	541	3.64	<0.5	3.3	1.4	48	<0.1	<0.1	<0.1	76	1.09	0.143
1542528	Drill Core	5.23	<0.1	38.9	6.3	63	<0.1	86.3	25.8	641	4.40	3.0	3.4	11.7	120	<0.1	0.1	<0.1	139	2.05	0.338
1542529	Drill Core	5.79	0.2	11.3	0.4	9	<0.1	1149.2	60.6	821	3.21	31.0	23.3	<0.1	62	<0.1	0.3	<0.1	20	2.02	0.003
1542530	Drill Core	5.95	0.2	16.8	0.5	12	<0.1	1088.1	63.8	897	3.31	39.4	9.3	<0.1	79	<0.1	0.2	<0.1	37	3.36	0.006

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Project: Yellow Jacket
Report Date: September 06, 2016

CERTIFICATE OF ANALYSIS WHI16000160.1

Method		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1542501	Drill Core	<1	512	6.76	48	0.023	<20	0.99	0.044	0.01	<0.1	<0.01	7.6	<0.1	<0.05	2	<0.5	<0.2
1542502	Drill Core	<1	657	9.63	24	0.002	<20	0.49	<0.001	<0.01	<0.1	<0.01	7.9	<0.1	<0.05	1	<0.5	<0.2
1542503	Drill Core	<1	746	8.81	31	0.005	<20	1.34	<0.001	<0.01	<0.1	<0.01	11.0	<0.1	<0.05	2	<0.5	<0.2
1542504	Drill Core	<1	421	7.89	20	0.001	<20	0.34	<0.001	<0.01	<0.1	<0.01	4.6	<0.1	<0.05	<1	<0.5	<0.2
1542505	Drill Core	<1	399	4.87	18	0.001	<20	0.56	<0.001	<0.01	<0.1	<0.01	5.3	0.1	<0.05	2	<0.5	<0.2
1542506	Drill Core	20	21	2.61	159	0.004	<20	2.26	0.048	0.17	<0.1	<0.01	4.9	<0.1	<0.05	9	<0.5	<0.2
1542507	Drill Core	17	42	2.51	118	0.004	<20	2.09	0.040	0.11	<0.1	<0.01	4.9	<0.1	<0.05	9	<0.5	<0.2
1542508	Drill Core	<1	626	7.45	25	<0.001	<20	0.32	0.001	<0.01	<0.1	<0.01	6.1	<0.1	<0.05	<1	<0.5	<0.2
1542509	Drill Core	<1	558	7.77	26	0.001	<20	0.30	<0.001	<0.01	<0.1	<0.01	5.9	<0.1	<0.05	<1	<0.5	<0.2
1542510	Drill Core	2	606	9.96	30	0.028	<20	2.38	<0.001	<0.01	<0.1	<0.01	21.0	<0.1	<0.05	4	<0.5	<0.2
1542511	Drill Core	<1	615	6.16	26	0.002	<20	0.59	<0.001	<0.01	<0.1	<0.01	6.3	<0.1	<0.05	3	<0.5	<0.2
1542512	Rock Pulp	7	15	0.57	114	0.102	<20	1.32	0.145	0.20	6.3	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
1542513	Drill Core	2	104	4.87	74	0.112	<20	3.55	0.113	0.08	<0.1	<0.01	17.0	<0.1	<0.05	8	<0.5	<0.2
1542514	Drill Core	1	61	2.94	37	0.201	<20	2.33	0.122	0.08	<0.1	<0.01	10.8	<0.1	<0.05	5	<0.5	<0.2
1542515	Drill Core	2	376	8.89	16	0.009	<20	4.09	0.002	<0.01	<0.1	<0.01	20.7	<0.1	<0.05	11	<0.5	<0.2
1542516	Drill Core	1	765	9.15	17	0.010	<20	3.41	0.008	0.02	<0.1	<0.01	19.5	<0.1	<0.05	9	<0.5	<0.2
1542517	Drill Core	5	112	4.64	95	0.020	<20	4.02	0.080	0.12	<0.1	<0.01	20.5	<0.1	<0.05	10	<0.5	<0.2
1542518	Rock Pulp	5	27	0.77	19	0.019	<20	1.29	0.044	0.21	35.3	0.02	1.8	0.1	6.18	4	1.7	1.0
1542519	Drill Core	3	169	9.72	39	0.019	<20	7.15	0.006	0.06	<0.1	<0.01	31.3	<0.1	<0.05	15	<0.5	<0.2
1542520	Drill Core	<1	292	6.09	18	0.002	<20	1.34	0.003	0.05	0.1	<0.01	5.0	<0.1	<0.05	3	<0.5	<0.2
1542521	Drill Core	19	525	7.47	140	0.055	<20	1.71	0.006	0.11	<0.1	<0.01	8.0	<0.1	<0.05	5	<0.5	<0.2
1542522	Drill Core	<1	662	6.58	33	<0.001	<20	0.31	0.001	<0.01	<0.1	<0.01	7.1	<0.1	<0.05	<1	<0.5	<0.2
1542523	Drill Core	4	133	7.49	162	0.025	<20	5.94	0.008	0.18	<0.1	<0.01	34.1	<0.1	<0.05	14	<0.5	<0.2
1542524	Drill Core	4	133	7.33	205	0.022	<20	5.96	0.008	0.20	<0.1	<0.01	34.8	<0.1	<0.05	14	<0.5	<0.2
1542525	Drill Core	10	151	5.56	86	0.017	<20	3.88	0.024	0.11	<0.1	<0.01	20.4	<0.1	<0.05	11	<0.5	<0.2
1542526	Drill Core	20	23	2.67	133	0.006	<20	2.50	0.057	0.19	<0.1	<0.01	6.0	<0.1	<0.05	10	<0.5	<0.2
1542527	Drill Core	19	19	2.82	121	0.006	<20	2.56	0.044	0.15	<0.1	<0.01	5.7	<0.1	<0.05	11	<0.5	<0.2
1542528	Drill Core	69	174	5.52	938	0.213	<20	3.41	0.070	0.52	<0.1	<0.01	12.5	0.1	<0.05	13	<0.5	<0.2
1542529	Drill Core	<1	605	9.60	20	<0.001	<20	0.41	0.002	<0.01	<0.1	<0.01	7.4	<0.1	<0.05	<1	<0.5	<0.2
1542530	Drill Core	<1	578	9.39	9	0.002	<20	0.80	0.002	<0.01	<0.1	<0.01	8.6	<0.1	0.12	2	<0.5	<0.2

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Project: Yellow Jacket
Report Date: September 06, 2016

CERTIFICATE OF ANALYSIS WHI16000160.1

Method		WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1542531	Drill Core	6.03	0.2	13.5	0.6	9	0.1	1364.1	76.7	896	3.51	362.9	214.7	<0.1	140	<0.1	4.3	0.2	17	3.24	0.001
1542532	Drill Core	3.57	<0.1	13.3	0.2	6	0.2	1357.7	76.8	761	3.64	93.6	55.5	<0.1	142	<0.1	0.6	0.1	15	3.26	<0.001
1542533	Drill Core	4.14	<0.1	29.8	0.5	13	0.1	1152.3	69.1	966	3.58	72.5	104.5	<0.1	118	0.1	0.5	<0.1	33	3.18	0.003
1542534	Drill Core	4.37	<0.1	20.8	1.4	87	<0.1	87.6	43.1	1037	7.89	2.3	30.3	<0.1	89	0.1	0.2	<0.1	232	2.95	0.047
1542535	Drill Core	7.26	0.2	35.3	1.4	38	0.2	294.5	44.7	1385	5.09	81.8	118.8	<0.1	235	0.1	1.0	<0.1	88	5.47	0.024
1542536	Drill Core	4.79	0.1	7.1	0.7	79	<0.1	154.1	38.1	1243	6.75	0.9	<0.5	<0.1	119	0.2	0.2	<0.1	215	3.25	0.043
1542537	Drill Core	2.23	0.1	3.1	0.6	73	<0.1	205.2	39.4	1479	6.42	1.4	<0.5	<0.1	130	<0.1	0.1	<0.1	215	3.93	0.040
1542538	Drill Core	2.48	0.1	44.0	0.8	66	<0.1	57.0	28.4	420	6.01	0.7	<0.5	0.1	61	<0.1	0.4	<0.1	209	0.87	0.059
1542539	Drill Core	1.62	<0.1	53.9	1.9	65	<0.1	146.6	31.1	738	6.32	16.1	7.2	2.8	158	<0.1	0.2	<0.1	190	3.12	0.161
1542540	Drill Core	5.41	0.4	93.7	1.6	17	0.5	1085.7	63.0	792	3.11	234.3	20.2	0.3	201	<0.1	4.5	<0.1	25	5.54	0.012
1542541	Drill Core	6.03	0.3	28.8	1.1	12	0.2	1011.8	58.0	970	3.44	196.5	13.5	0.4	282	<0.1	7.4	0.1	33	6.61	0.014
1542542	Rock Pulp	0.07	2.4	62.4	3.6	35	<0.1	6.9	8.1	328	2.72	0.8	1.2	2.7	68	<0.1	<0.1	<0.1	105	0.78	0.068
1542543	Drill Core	5.20	0.9	26.5	3.1	19	1.3	129.2	22.3	734	4.34	143.2	1970.9	0.8	271	<0.1	0.7	<0.1	34	5.18	0.027
1542544	Drill Core	3.83	0.4	7.8	1.1	18	0.4	465.6	33.7	680	2.83	544.6	867.8	<0.1	220	<0.1	15.9	<0.1	27	3.62	0.002
1542545	Drill Core	6.46	0.4	1.8	1.8	46	<0.1	67.1	28.9	960	4.87	7.3	107.2	0.1	104	<0.1	0.1	<0.1	181	2.44	0.032
1542546	Drill Core	6.05	0.2	14.6	1.4	84	0.2	141.6	47.4	1220	7.82	48.5	182.4	<0.1	70	<0.1	0.3	<0.1	226	1.86	0.038
1542547	Drill Core	6.70	<0.1	16.8	0.7	9	0.2	1199.5	67.5	866	3.74	202.0	35.6	<0.1	83	0.1	2.7	0.1	47	2.30	0.003
1542548	Drill Core	6.35	<0.1	7.8	0.3	8	<0.1	1251.9	66.3	844	3.65	42.6	10.1	<0.1	65	<0.1	0.4	0.2	20	1.26	<0.001
1542549	Drill Core	6.47	<0.1	12.4	0.3	8	<0.1	1199.0	66.7	909	3.93	27.6	12.6	<0.1	28	<0.1	0.2	0.1	37	0.72	<0.001
1542550	Drill Core	6.23	<0.1	14.9	0.3	9	<0.1	1184.1	68.2	791	3.44	81.3	15.5	<0.1	72	<0.1	1.3	<0.1	23	1.66	<0.001
1542551	Drill Core	6.35	0.1	19.1	0.3	10	<0.1	1137.7	66.4	773	3.69	9.0	1.4	<0.1	75	<0.1	0.1	<0.1	40	3.38	0.005
1542552	Rock Pulp	0.07	4.0	113.3	4.3	42	0.1	8.0	10.0	410	2.80	141.6	440.8	2.8	68	0.1	1.0	0.1	96	0.81	0.061
1542553	Drill Core	6.63	<0.1	24.4	0.3	8	<0.1	978.9	58.1	956	2.94	8.9	3.5	<0.1	59	<0.1	<0.1	<0.1	26	3.09	<0.001
1542554	Drill Core	6.52	<0.1	18.8	0.2	9	<0.1	1070.2	65.2	911	3.61	44.9	19.9	<0.1	37	<0.1	0.3	0.1	24	0.72	<0.001
1542555	Drill Core	6.54	<0.1	15.2	0.2	9	<0.1	1112.0	65.2	813	3.68	50.6	66.7	<0.1	42	<0.1	0.3	<0.1	30	0.86	<0.001
1542556	Drill Core	6.54	<0.1	22.8	0.2	9	<0.1	925.9	57.3	945	3.50	4.7	0.7	<0.1	46	<0.1	0.1	<0.1	48	2.10	0.002
1542557	Drill Core	5.63	<0.1	24.6	0.2	7	<0.1	973.5	55.7	834	3.26	13.7	<0.5	<0.1	40	<0.1	0.5	<0.1	23	1.40	0.002
1542558	Drill Core	6.29	<0.1	43.2	0.3	9	<0.1	1092.6	59.2	831	3.51	4.8	<0.5	<0.1	40	<0.1	0.1	<0.1	36	2.27	0.003
1542559	Drill Core	4.21	0.2	24.4	0.8	14	0.2	867.0	52.2	756	3.57	351.4	178.4	<0.1	154	<0.1	6.4	<0.1	46	4.20	0.003
1542560	Drill Core	4.23	0.1	3.7	0.7	25	0.2	751.2	45.6	1200	3.16	295.1	131.3	<0.1	239	<0.1	7.1	<0.1	37	6.55	0.003

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	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1542531	Drill Core	<1	513	13.31	9	<0.001	<20	0.27	0.002	0.01	<0.1	<0.01	6.8	<0.1	0.14	<1	<0.5	<0.2
1542532	Drill Core	<1	484	13.63	6	<0.001	<20	0.22	0.002	<0.01	0.1	<0.01	7.1	<0.1	0.14	<1	<0.5	<0.2
1542533	Drill Core	<1	495	10.32	10	<0.001	<20	0.70	0.002	0.03	<0.1	<0.01	9.0	<0.1	0.24	2	<0.5	<0.2
1542534	Drill Core	3	129	7.69	32	0.004	<20	4.61	0.008	0.23	<0.1	<0.01	30.6	<0.1	0.10	12	<0.5	<0.2
1542535	Drill Core	<1	137	7.61	501	0.001	<20	1.90	0.003	0.23	<0.1	<0.01	19.3	<0.1	0.45	5	<0.5	<0.2
1542536	Drill Core	3	157	8.43	123	0.011	<20	4.46	0.017	0.19	<0.1	<0.01	23.8	<0.1	<0.05	11	<0.5	<0.2
1542537	Drill Core	3	215	8.49	135	0.012	<20	4.34	0.015	0.17	<0.1	<0.01	23.0	<0.1	<0.05	11	<0.5	<0.2
1542538	Drill Core	3	77	5.89	67	0.006	<20	3.45	0.057	0.26	<0.1	<0.01	20.1	<0.1	<0.05	11	<0.5	<0.2
1542539	Drill Core	11	160	6.58	48	0.005	<20	3.07	0.024	0.25	<0.1	<0.01	19.1	<0.1	0.20	10	<0.5	<0.2
1542540	Drill Core	2	572	9.16	24	<0.001	<20	0.61	0.003	0.06	<0.1	<0.01	7.7	<0.1	0.33	2	<0.5	<0.2
1542541	Drill Core	1	394	9.43	31	<0.001	<20	0.77	0.002	0.05	0.1	<0.01	8.3	<0.1	0.26	2	<0.5	<0.2
1542542	Rock Pulp	7	15	0.60	123	0.106	<20	1.41	0.161	0.21	5.9	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
1542543	Drill Core	4	36	5.30	32	<0.001	<20	0.87	0.009	0.23	<0.1	<0.01	13.2	<0.1	0.87	2	<0.5	<0.2
1542544	Drill Core	<1	100	5.44	37	<0.001	<20	0.39	0.003	0.10	<0.1	<0.01	8.8	<0.1	0.22	1	<0.5	<0.2
1542545	Drill Core	2	115	5.48	233	0.014	<20	3.97	0.073	0.57	<0.1	<0.01	24.1	0.1	0.10	9	<0.5	<0.2
1542546	Drill Core	2	232	7.65	402	0.062	<20	4.84	0.020	0.87	<0.1	<0.01	29.2	0.3	0.27	11	<0.5	<0.2
1542547	Drill Core	<1	683	12.08	5	<0.001	<20	1.00	0.003	0.01	<0.1	<0.01	10.8	<0.1	0.17	3	<0.5	<0.2
1542548	Drill Core	<1	608	12.40	3	<0.001	<20	0.36	0.002	0.01	<0.1	<0.01	7.2	<0.1	0.17	1	<0.5	<0.2
1542549	Drill Core	<1	854	11.30	2	<0.001	<20	0.70	0.003	0.01	<0.1	<0.01	9.8	<0.1	0.17	2	<0.5	<0.2
1542550	Drill Core	<1	464	12.54	4	<0.001	<20	0.39	0.002	0.03	<0.1	<0.01	7.3	<0.1	0.12	1	<0.5	<0.2
1542551	Drill Core	<1	392	12.75	7	<0.001	<20	0.86	0.002	0.04	<0.1	<0.01	9.7	<0.1	0.11	2	<0.5	<0.2
1542552	Rock Pulp	8	15	0.78	130	0.123	<20	1.63	0.160	0.23	5.8	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
1542553	Drill Core	<1	684	8.98	3	0.001	<20	0.59	0.001	<0.01	<0.1	<0.01	7.2	<0.1	0.13	2	<0.5	<0.2
1542554	Drill Core	<1	682	11.19	2	<0.001	<20	0.49	<0.001	<0.01	<0.1	<0.01	7.8	<0.1	0.12	1	<0.5	<0.2
1542555	Drill Core	<1	668	11.18	3	0.001	<20	0.65	0.001	<0.01	<0.1	<0.01	7.6	<0.1	0.16	2	<0.5	<0.2
1542556	Drill Core	<1	525	10.26	2	0.002	<20	1.30	0.002	<0.01	<0.1	<0.01	12.7	<0.1	0.11	2	<0.5	<0.2
1542557	Drill Core	<1	433	8.97	1	0.001	<20	0.66	<0.001	<0.01	<0.1	<0.01	7.4	<0.1	0.19	1	<0.5	<0.2
1542558	Drill Core	<1	482	9.47	2	0.002	<20	1.69	0.002	<0.01	<0.1	<0.01	14.2	<0.1	0.26	3	<0.5	<0.2
1542559	Drill Core	<1	250	9.94	7	<0.001	<20	1.52	0.003	0.07	<0.1	<0.01	12.9	<0.1	0.10	3	<0.5	<0.2
1542560	Drill Core	<1	281	7.79	8	<0.001	<20	0.90	0.002	0.06	<0.1	<0.01	9.7	<0.1	0.09	2	<0.5	<0.2

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Project: Yellow Jacket
Report Date: September 06, 2016

CERTIFICATE OF ANALYSIS WHI16000160.1

Method		WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1542561	Drill Core	4.43	0.1	58.0	1.3	9	1.6	1032.6	54.8	830	2.49	470.5	2435.3	<0.1	166	<0.1	6.4	0.2	10	5.03	<0.001
1542562	Drill Core	4.96	0.1	5.5	1.0	64	0.1	394.9	41.4	1151	4.62	203.7	258.6	<0.1	96	<0.1	1.0	<0.1	97	4.93	0.010
1542563	Drill Core	5.90	<0.1	42.6	2.2	46	0.5	93.3	30.1	843	4.58	113.8	311.5	<0.1	139	<0.1	0.6	<0.1	128	2.96	0.019
1542564	Drill Core	4.44	0.1	3.0	0.6	62	0.1	133.4	31.2	994	5.28	13.1	82.8	<0.1	70	<0.1	0.1	0.3	190	2.07	0.015
1542565	Drill Core	6.69	0.1	43.3	0.8	68	0.1	68.1	33.0	1201	6.22	11.0	63.1	<0.1	77	<0.1	0.3	<0.1	257	2.25	0.032
1542566	Drill Core	5.31	0.2	82.7	1.1	80	0.2	20.3	36.9	748	7.98	25.8	165.8	<0.1	62	<0.1	0.5	<0.1	353	1.09	0.038
1542567	Rock Pulp	0.06	2.6	59.6	3.6	34	<0.1	6.7	8.1	322	2.66	0.9	<0.5	2.6	65	<0.1	<0.1	<0.1	104	0.77	0.068
1542568	Drill Core	5.79	0.3	95.8	1.1	71	0.2	19.4	33.6	1006	7.02	16.7	87.0	<0.1	52	<0.1	0.6	0.1	329	1.12	0.045
1542569	Drill Core	5.81	0.3	54.2	0.3	85	<0.1	34.9	36.7	519	7.71	<0.5	1.5	<0.1	32	<0.1	0.1	<0.1	355	0.34	0.046
1542570	Drill Core	2.57	0.1	64.4	0.5	91	<0.1	36.2	38.9	506	8.21	<0.5	<0.5	<0.1	32	<0.1	0.2	<0.1	378	0.33	0.049
1542571	Drill Core	4.10	0.2	61.8	0.5	99	<0.1	50.6	42.1	616	9.04	<0.5	<0.5	0.1	44	<0.1	0.1	<0.1	349	0.57	0.062
1542572	Drill Core	4.45	0.3	18.0	1.2	44	0.5	411.6	36.7	1872	4.54	309.2	723.7	<0.1	241	<0.1	6.0	<0.1	76	7.14	0.017
1542573	Drill Core	5.01	0.2	29.3	0.4	17	0.1	979.3	55.6	1734	3.37	224.8	52.5	<0.1	250	<0.1	8.0	0.2	33	9.43	0.006
1542574	Drill Core	6.32	<0.1	48.7	2.1	62	<0.1	83.4	38.4	1281	7.09	13.7	41.2	<0.1	90	0.2	0.3	<0.1	292	2.94	0.055
1542575	Drill Core	6.89	0.4	67.1	0.5	55	<0.1	48.1	25.7	745	4.82	1.9	10.1	<0.1	47	0.2	<0.1	<0.1	229	1.29	0.055
1542576	Drill Core	6.30	0.3	59.8	0.3	48	<0.1	32.2	21.9	510	4.47	1.0	7.9	<0.1	31	<0.1	<0.1	<0.1	210	0.87	0.054
1542577	Drill Core	3.20	0.3	41.4	0.6	56	<0.1	40.5	28.1	828	5.23	1.0	10.0	<0.1	47	<0.1	<0.1	<0.1	248	0.84	0.055
1542578	Drill Core	4.64	0.3	38.2	0.7	57	<0.1	529.3	44.0	1900	4.69	188.3	15.3	<0.1	89	0.1	0.4	0.1	181	3.97	0.040
1542579	Drill Core	5.50	0.3	6.0	0.7	57	<0.1	52.2	28.4	1344	5.70	1.5	<0.5	<0.1	89	0.1	<0.1	<0.1	228	2.35	0.056
1542580	Drill Core	6.14	<0.1	9.9	1.4	52	<0.1	38.8	26.0	932	5.59	2.9	0.6	<0.1	74	<0.1	<0.1	<0.1	241	1.94	0.057
1542581	Drill Core	5.99	0.3	57.7	0.7	48	<0.1	38.9	25.4	778	4.85	1.8	5.2	<0.1	62	0.1	0.1	<0.1	219	1.77	0.051
1542582	Drill Core	4.55	<0.1	49.1	2.3	42	<0.1	46.0	25.6	646	4.54	1.3	14.2	<0.1	86	<0.1	0.3	0.2	218	1.72	0.057
1542583	Drill Core	2.81	<0.1	10.4	1.6	76	<0.1	94.3	38.0	1527	7.55	4.9	10.7	<0.1	116	<0.1	<0.1	0.1	323	2.96	0.056
1542584	Drill Core	4.55	<0.1	30.7	0.1	11	<0.1	1043.7	59.5	935	2.93	25.3	15.1	<0.1	80	<0.1	0.2	<0.1	23	1.67	<0.001
1542585	Drill Core	4.90	<0.1	19.5	<0.1	7	<0.1	1119.1	58.8	797	3.31	4.6	6.4	<0.1	112	<0.1	0.2	0.1	17	1.00	<0.001
1542586	Drill Core	5.02	2.4	35.5	5.0	36	7.6	285.6	27.8	1093	3.54	106.6	>10000	3.6	303	<0.1	1.5	<0.1	69	5.23	0.143
1542587	Drill Core	4.81	0.3	103.6	2.0	17	0.5	988.3	56.6	1091	3.16	220.1	117.0	0.3	267	<0.1	5.1	0.2	29	5.70	0.015
1542588	Drill Core	3.23	0.7	8.2	1.7	87	0.1	206.4	46.1	1068	6.72	24.9	57.4	0.8	143	<0.1	0.2	<0.1	194	2.69	0.078
1542589	Drill Core	2.87	0.8	36.3	2.0	48	0.3	662.5	49.4	1096	4.21	126.3	197.0	0.5	331	<0.1	2.1	<0.1	81	4.77	0.032
1542590	Drill Core	5.56	0.7	78.3	3.1	63	0.9	110.0	38.9	877	6.41	177.8	1173.9	0.4	177	0.2	0.9	<0.1	88	3.22	0.050

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Project: Yellow Jacket
Report Date: September 06, 2016

CERTIFICATE OF ANALYSIS WHI16000160.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1542561	Drill Core	<1	222	8.41	12	<0.001	<20	0.18	<0.001	0.02	<0.1	<0.01	5.0	<0.1	0.18	<1	<0.5	<0.2
1542562	Drill Core	<1	377	7.43	58	0.004	<20	2.89	0.006	0.13	<0.1	<0.01	20.8	<0.1	0.38	6	<0.5	<0.2
1542563	Drill Core	1	167	4.35	119	0.024	<20	2.58	0.058	0.36	<0.1	<0.01	23.2	<0.1	0.79	6	<0.5	<0.2
1542564	Drill Core	<1	361	5.96	119	0.043	<20	3.71	0.050	0.38	<0.1	<0.01	28.3	<0.1	0.10	9	<0.5	<0.2
1542565	Drill Core	2	188	4.70	99	0.037	<20	3.24	0.045	0.31	<0.1	<0.01	28.0	<0.1	0.24	11	<0.5	<0.2
1542566	Drill Core	2	15	4.75	151	0.059	<20	3.82	0.062	0.39	<0.1	0.02	31.0	0.2	0.55	13	<0.5	<0.2
1542567	Rock Pulp	7	15	0.60	122	0.104	<20	1.37	0.154	0.21	5.7	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
1542568	Drill Core	2	15	3.97	83	0.034	<20	3.16	0.080	0.19	<0.1	0.02	26.8	0.1	0.53	12	<0.5	<0.2
1542569	Drill Core	2	67	4.56	55	0.048	<20	3.66	0.071	0.19	<0.1	0.01	29.3	<0.1	0.07	13	<0.5	<0.2
1542570	Drill Core	3	68	4.90	59	0.046	<20	3.85	0.065	0.20	<0.1	0.01	30.4	<0.1	0.11	14	<0.5	<0.2
1542571	Drill Core	4	98	5.44	30	0.017	<20	4.14	0.043	0.07	<0.1	0.01	32.9	<0.1	0.15	16	<0.5	<0.2
1542572	Drill Core	<1	89	5.62	18	0.001	<20	1.33	0.007	0.09	<0.1	0.01	15.2	<0.1	1.10	3	<0.5	<0.2
1542573	Drill Core	<1	210	6.39	15	<0.001	<20	0.47	0.004	0.05	<0.1	<0.01	7.4	<0.1	0.19	1	<0.5	<0.2
1542574	Drill Core	3	115	5.17	55	0.016	<20	3.64	0.037	0.12	<0.1	0.02	25.1	<0.1	0.18	11	<0.5	<0.2
1542575	Drill Core	2	66	3.50	45	0.071	<20	2.55	0.097	0.07	<0.1	<0.01	16.1	<0.1	<0.05	10	<0.5	<0.2
1542576	Drill Core	2	49	3.15	30	0.086	<20	2.38	0.116	0.06	<0.1	<0.01	12.8	<0.1	<0.05	9	<0.5	<0.2
1542577	Drill Core	2	63	4.06	46	0.047	<20	2.90	0.088	0.07	<0.1	0.01	17.4	<0.1	0.09	11	<0.5	<0.2
1542578	Drill Core	2	183	5.48	76	0.038	<20	2.61	0.041	0.06	<0.1	<0.01	15.7	<0.1	<0.05	10	<0.5	<0.2
1542579	Drill Core	4	114	6.13	52	0.055	<20	3.67	0.059	0.10	<0.1	<0.01	18.6	<0.1	<0.05	12	<0.5	<0.2
1542580	Drill Core	3	71	5.06	54	0.158	<20	3.39	0.066	0.07	<0.1	0.01	17.9	<0.1	0.05	11	<0.5	<0.2
1542581	Drill Core	2	64	3.67	48	0.207	<20	2.81	0.131	0.06	<0.1	<0.01	14.2	<0.1	<0.05	10	<0.5	<0.2
1542582	Drill Core	1	59	3.09	561	0.142	<20	3.15	0.221	0.14	<0.1	0.03	14.7	<0.1	0.16	9	<0.5	<0.2
1542583	Drill Core	3	124	7.52	453	0.096	<20	4.82	0.040	0.49	<0.1	0.01	28.3	0.1	0.06	13	<0.5	<0.2
1542584	Drill Core	<1	591	8.53	7	0.001	<20	0.52	0.001	<0.01	<0.1	<0.01	6.7	<0.1	0.16	1	<0.5	<0.2
1542585	Drill Core	<1	565	10.63	3	<0.001	<20	0.40	<0.001	<0.01	<0.1	<0.01	6.7	<0.1	0.15	<1	<0.5	<0.2
1542586	Drill Core	12	187	5.48	90	0.008	<20	2.18	0.026	0.08	<0.1	0.03	9.3	<0.1	0.28	6	<0.5	<0.2
1542587	Drill Core	<1	337	8.26	18	0.002	<20	1.01	0.004	0.02	0.2	<0.01	7.2	<0.1	0.56	3	0.5	<0.2
1542588	Drill Core	4	249	8.01	86	0.011	<20	4.63	0.005	0.18	<0.1	<0.01	24.0	<0.1	0.15	11	<0.5	<0.2
1542589	Drill Core	3	383	6.73	33	0.005	<20	2.85	0.004	0.12	<0.1	<0.01	13.7	<0.1	0.29	7	<0.5	<0.2
1542590	Drill Core	3	195	5.65	86	0.008	<20	2.97	0.023	0.36	<0.1	<0.01	21.8	<0.1	1.69	5	0.7	<0.2

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Project: Yellow Jacket
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CERTIFICATE OF ANALYSIS WHI16000160.1

Method		WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1542591	Rock Pulp	0.06	4.5	81.6	9.1	17	11.0	27.6	10.8	335	16.71	>10000	>10000	1.4	35	<0.1	3.6	2.2	17	0.89	0.053
1542592	Drill Core	6.77	1.0	54.2	4.9	34	0.9	80.4	33.0	921	6.08	226.0	878.7	0.7	202	<0.1	1.1	0.1	43	3.62	0.028
1542593	Drill Core	4.83	0.8	52.2	7.8	31	0.3	77.4	22.2	916	3.97	79.7	351.5	7.6	381	0.2	0.7	0.2	26	5.83	0.128
1542594	Rock Pulp	0.06	3.6	114.6	4.5	44	0.1	8.5	9.3	401	2.78	145.1	367.9	2.7	67	<0.1	1.1	0.1	96	0.77	0.065
1542595	Drill Core	6.33	0.1	41.1	0.4	9	0.2	1461.4	70.9	948	3.62	299.7	30.4	<0.1	274	<0.1	2.1	0.2	12	3.59	0.001
1542596	Drill Core	6.02	0.2	52.9	0.5	13	0.4	1244.2	60.9	395	2.73	482.1	470.9	<0.1	172	<0.1	12.1	0.1	11	2.70	<0.001
1542597	Drill Core	4.36	0.2	43.2	0.5	8	0.2	1316.1	61.2	766	3.30	529.9	71.7	<0.1	148	<0.1	6.4	0.2	17	2.39	<0.001
1542598	Drill Core	4.48	<0.1	147.4	0.8	19	0.5	1107.8	68.3	692	4.23	209.8	59.4	<0.1	209	0.2	4.3	0.2	84	3.31	0.020
1542599	Drill Core	6.34	0.1	68.9	0.7	16	0.5	1258.3	67.7	677	4.43	265.0	89.5	<0.1	137	<0.1	3.6	0.2	65	2.22	0.007
1542600	Drill Core	6.66	<0.1	16.2	0.3	8	<0.1	1288.7	71.5	729	4.05	105.2	23.0	<0.1	22	<0.1	0.6	0.2	52	0.29	0.005
1542601	Drill Core	5.06	0.2	34.7	0.2	9	0.2	1568.6	73.0	961	4.00	145.1	4.6	<0.1	40	<0.1	1.8	0.2	13	0.71	<0.001
1542602	Drill Core	6.32	<0.1	43.8	0.3	9	0.2	1220.7	72.1	707	3.49	143.3	23.5	<0.1	57	<0.1	0.5	0.2	24	0.95	0.002
1542603	Drill Core	6.74	<0.1	10.0	0.3	7	<0.1	1304.4	70.7	777	3.58	57.8	3.9	<0.1	64	<0.1	0.1	0.1	35	0.80	0.007
1542604	Drill Core	6.92	<0.1	14.2	0.4	9	<0.1	1142.4	68.0	701	4.01	49.5	6.8	<0.1	39	<0.1	<0.1	0.2	77	0.64	0.012
1542605	Drill Core	6.31	<0.1	15.0	0.4	7	<0.1	1463.1	80.9	754	3.95	95.4	3.7	<0.1	17	<0.1	0.2	0.2	22	0.31	0.003
1542606	Drill Core	6.72	<0.1	35.8	0.4	6	<0.1	1174.8	63.1	642	2.68	220.2	53.3	<0.1	31	<0.1	1.1	0.2	8	0.52	<0.001
1542607	Drill Core	5.79	<0.1	32.4	0.3	8	<0.1	1367.3	70.0	798	3.28	309.8	36.2	<0.1	181	<0.1	1.2	0.3	9	2.88	<0.001
1542608	Drill Core	6.44	0.1	28.1	0.3	8	<0.1	1398.2	73.8	732	3.34	338.6	60.1	<0.1	141	<0.1	2.9	0.2	8	3.47	<0.001
1542609	Drill Core	6.03	<0.1	59.9	0.4	8	<0.1	1438.5	69.4	894	3.91	120.4	21.6	<0.1	45	<0.1	0.5	0.3	34	1.65	0.003
1542610	Drill Core	4.95	<0.1	24.1	0.5	12	0.4	1564.4	75.1	944	3.68	1163.1	298.2	<0.1	87	<0.1	47.2	0.2	11	2.30	<0.001
1542611	Drill Core	6.13	0.1	73.4	1.4	34	0.3	932.0	68.8	878	5.84	50.2	1011.5	<0.1	34	<0.1	0.4	0.1	136	2.57	0.024
1542612	Rock Pulp	0.07	2.5	55.6	3.9	32	0.1	7.0	7.5	311	2.60	0.6	<0.5	2.4	64	<0.1	<0.1	<0.1	102	0.78	0.065
1542613	Drill Core	5.87	<0.1	20.7	0.3	13	<0.1	1173.1	70.6	838	3.99	74.9	13.4	<0.1	23	<0.1	0.3	0.2	74	1.33	0.016
1542614	Drill Core	4.72	<0.1	61.5	0.5	25	<0.1	932.0	52.9	706	3.04	5.8	1.6	<0.1	23	<0.1	<0.1	0.1	105	1.69	0.020
1542615	Drill Core	4.62	0.1	5.5	2.4	71	<0.1	224.0	55.8	927	9.54	9.6	9.7	<0.1	79	0.1	0.3	<0.1	374	2.77	0.059
1542616	Drill Core	4.76	<0.1	50.8	0.7	13	<0.1	1280.1	71.1	816	2.96	38.8	22.8	<0.1	98	<0.1	0.1	0.1	31	3.63	0.003
1542617	Drill Core	6.16	2.7	61.0	0.5	19	<0.1	899.7	54.5	794	3.03	57.7	5.2	<0.1	93	<0.1	0.3	0.1	61	3.48	0.011
1542618	Rock Pulp	0.06	4.4	83.8	9.3	17	10.7	26.7	11.0	320	16.27	>10000	>10000	1.5	32	<0.1	4.2	2.1	17	0.89	0.050
1542619	Drill Core	5.68	<0.1	9.8	0.4	9	<0.1	1718.5	78.0	878	3.39	13.4	1.9	<0.1	22	<0.1	0.1	<0.1	11	0.42	<0.001
1542620	Drill Core	5.96	<0.1	8.1	0.4	9	<0.1	1595.1	73.0	931	3.26	19.5	1.1	<0.1	8	<0.1	0.1	<0.1	15	0.11	<0.001

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Project: Yellow Jacket
Report Date: September 06, 2016

CERTIFICATE OF ANALYSIS WHI16000160.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1542591	Rock Pulp	6	28	0.80	21	0.020	<20	1.34	0.047	0.22	34.5	0.01	1.9	0.1	6.39	5	1.7	1.1
1542592	Drill Core	2	33	4.86	53	<0.001	<20	1.55	0.023	0.34	<0.1	<0.01	17.6	<0.1	2.27	2	0.8	<0.2
1542593	Drill Core	14	57	5.17	35	<0.001	<20	1.66	0.020	0.18	<0.1	<0.01	11.3	<0.1	1.08	3	<0.5	<0.2
1542594	Rock Pulp	7	15	0.78	124	0.118	<20	1.52	0.150	0.23	5.6	<0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
1542595	Drill Core	<1	300	12.79	8	<0.001	<20	0.23	0.002	0.01	<0.1	<0.01	5.3	<0.1	0.25	<1	<0.5	<0.2
1542596	Drill Core	<1	195	11.37	8	<0.001	<20	0.18	0.002	0.02	<0.1	<0.01	3.5	<0.1	0.26	<1	<0.5	<0.2
1542597	Drill Core	<1	223	11.72	6	<0.001	<20	0.33	0.003	0.01	<0.1	<0.01	5.2	<0.1	0.38	<1	0.6	<0.2
1542598	Drill Core	<1	306	10.45	9	0.002	<20	1.82	0.004	0.03	<0.1	<0.01	12.9	<0.1	0.93	4	0.6	<0.2
1542599	Drill Core	<1	433	12.88	8	0.002	<20	1.26	0.003	0.03	<0.1	<0.01	10.6	<0.1	0.46	3	0.5	<0.2
1542600	Drill Core	<1	481	12.66	4	0.002	<20	1.08	0.003	<0.01	<0.1	<0.01	11.8	<0.1	0.19	2	<0.5	<0.2
1542601	Drill Core	<1	332	14.65	5	<0.001	<20	0.18	0.002	<0.01	<0.1	<0.01	6.6	<0.1	0.19	<1	<0.5	<0.2
1542602	Drill Core	<1	427	11.86	5	<0.001	<20	0.44	0.002	0.02	<0.1	<0.01	6.6	<0.1	0.24	1	<0.5	<0.2
1542603	Drill Core	<1	396	11.16	3	0.001	<20	0.80	0.002	<0.01	<0.1	<0.01	8.1	<0.1	0.28	2	<0.5	<0.2
1542604	Drill Core	<1	499	10.98	4	0.002	<20	1.77	0.004	<0.01	<0.1	<0.01	13.1	<0.1	0.26	3	<0.5	<0.2
1542605	Drill Core	<1	429	11.99	2	<0.001	<20	0.40	0.001	<0.01	<0.1	<0.01	8.2	<0.1	0.25	<1	<0.5	<0.2
1542606	Drill Core	<1	327	8.47	1	<0.001	<20	0.18	0.002	<0.01	<0.1	<0.01	5.1	<0.1	0.29	<1	0.6	<0.2
1542607	Drill Core	<1	364	11.41	4	<0.001	<20	0.15	0.003	<0.01	<0.1	<0.01	4.9	<0.1	0.27	<1	<0.5	<0.2
1542608	Drill Core	<1	354	11.51	4	<0.001	<20	0.12	0.002	<0.01	<0.1	<0.01	4.7	<0.1	0.24	<1	0.7	<0.2
1542609	Drill Core	<1	568	11.32	4	<0.001	<20	0.70	0.002	<0.01	<0.1	<0.01	8.6	<0.1	0.40	3	<0.5	<0.2
1542610	Drill Core	<1	220	13.55	4	<0.001	<20	0.11	<0.001	0.01	0.2	<0.01	4.2	<0.1	0.15	<1	0.7	<0.2
1542611	Drill Core	<1	516	8.16	7	0.005	<20	2.62	0.003	0.03	<0.1	<0.01	18.1	<0.1	0.99	7	<0.5	<0.2
1542612	Rock Pulp	7	15	0.58	118	0.100	<20	1.35	0.161	0.20	5.6	<0.01	1.8	<0.1	<0.05	4	<0.5	<0.2
1542613	Drill Core	<1	435	9.79	4	0.003	<20	1.32	0.002	<0.01	<0.1	<0.01	10.9	<0.1	0.18	4	<0.5	<0.2
1542614	Drill Core	<1	414	5.54	4	0.015	<20	2.13	0.005	<0.01	<0.1	<0.01	14.1	<0.1	0.12	7	<0.5	<0.2
1542615	Drill Core	3	171	10.00	31	0.011	<20	6.06	0.040	0.04	<0.1	0.01	29.6	<0.1	0.10	14	<0.5	<0.2
1542616	Drill Core	<1	619	6.80	9	0.001	<20	0.77	0.007	<0.01	<0.1	<0.01	8.4	<0.1	0.30	2	<0.5	<0.2
1542617	Drill Core	<1	387	5.73	10	0.006	<20	1.35	0.009	<0.01	<0.1	0.01	9.7	<0.1	0.35	4	<0.5	<0.2
1542618	Rock Pulp	6	27	0.81	20	0.019	<20	1.31	0.046	0.20	36.2	0.01	1.6	0.1	6.25	4	1.4	1.1
1542619	Drill Core	<1	336	13.25	2	0.001	<20	0.12	0.001	<0.01	<0.1	<0.01	4.6	<0.1	0.14	<1	<0.5	<0.2
1542620	Drill Core	<1	434	12.87	1	<0.001	<20	0.18	0.003	<0.01	<0.1	<0.01	5.8	<0.1	0.11	<1	<0.5	<0.2

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Project: Yellow Jacket
Report Date: September 06, 2016

QUALITY CONTROL REPORT WHI16000160.1

	Method	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1542523	Drill Core	4.41	<0.1	15.5	9.5	86	<0.1	62.3	45.0	1658	9.67	1.1	1.1	0.1	96	0.1	<0.1	<0.1	341	3.37	0.072
REP 1542523	QC		<0.1	15.7	9.4	87	<0.1	62.7	44.5	1613	9.79	0.9	144.7	0.1	96	0.2	<0.1	<0.1	339	3.38	0.073
1542556	Drill Core	6.54	<0.1	22.8	0.2	9	<0.1	925.9	57.3	945	3.50	4.7	0.7	<0.1	46	<0.1	0.1	<0.1	48	2.10	0.002
REP 1542556	QC		<0.1	22.0	0.2	8	<0.1	892.5	56.6	907	3.39	4.4	0.5	<0.1	45	<0.1	0.1	<0.1	46	2.02	0.002
1542591	Rock Pulp	0.06	4.5	81.6	9.1	17	11.0	27.6	10.8	335	16.71	>10000	>10000	1.4	35	<0.1	3.6	2.2	17	0.89	0.053
REP 1542591	QC		4.1	79.9	9.4	17	9.2	27.1	11.3	334	16.59	>10000	>10000	1.4	35	<0.1	3.4	2.3	16	0.89	0.050
1542620	Drill Core	5.96	<0.1	8.1	0.4	9	<0.1	1595.1	73.0	931	3.26	19.5	1.1	<0.1	8	<0.1	0.1	<0.1	15	0.11	<0.001
REP 1542620	QC		<0.1	8.8	0.4	10	<0.1	1614.9	74.5	944	3.28	19.2	1.7	<0.1	8	<0.1	0.1	<0.1	15	0.11	<0.001
Core Reject Duplicates																					
1542526	Drill Core	4.51	<0.1	30.3	3.6	64	<0.1	22.1	13.1	554	3.47	<0.5	4.1	1.7	55	0.2	<0.1	<0.1	72	1.21	0.141
DUP 1542526	QC		0.1	32.3	3.6	70	<0.1	23.6	13.4	583	3.76	<0.5	2.4	1.6	55	0.1	<0.1	<0.1	74	1.25	0.140
1542560	Drill Core	4.23	0.1	3.7	0.7	25	0.2	751.2	45.6	1200	3.16	295.1	131.3	<0.1	239	<0.1	7.1	<0.1	37	6.55	0.003
DUP 1542560	QC		0.1	3.3	0.7	25	0.2	759.6	48.2	1196	3.16	299.7	125.1	<0.1	229	<0.1	7.1	<0.1	37	6.51	0.003
Reference Materials																					
STD DS10	Standard		15.6	163.3	158.8	386	2.0	81.0	13.9	925	2.82	51.3	70.6	7.7	73	2.7	7.6	12.9	44	1.13	0.080
STD DS10	Standard		14.3	156.8	158.2	378	2.0	76.2	13.2	939	2.80	48.1	341.0	7.8	72	2.7	8.2	13.4	45	1.11	0.076
STD DS10	Standard		12.9	156.0	149.7	360	1.7	74.1	12.8	907	2.74	44.9	120.0	7.4	63	2.7	7.4	12.6	41	1.08	0.076
STD DS10	Standard		13.1	157.7	148.9	351	1.9	73.2	12.7	885	2.66	46.1	104.0	7.3	67	2.6	7.8	11.8	41	1.07	0.077
STD OREAS45EA	Standard		1.6	707.4	15.0	34	0.2	398.4	53.9	438	22.56	11.1	49.8	10.3	4	<0.1	0.2	0.3	311	0.03	0.029
STD OREAS45EA	Standard		1.5	712.7	15.1	32	0.3	395.4	52.2	436	22.05	10.8	65.4	10.5	4	<0.1	0.2	0.3	322	0.03	0.031
STD OREAS45EA	Standard		1.6	692.9	14.5	32	0.3	388.0	55.1	424	23.70	10.3	50.6	10.2	4	<0.1	0.3	0.3	329	0.03	0.028
STD OREAS45EA	Standard		1.6	700.5	14.3	32	0.2	385.2	53.2	424	20.54	10.4	51.5	10.3	4	<0.1	0.2	0.2	309	0.03	0.029
STD DS10 Expected			13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765
STD OREAS45EA Expected			1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036	0.029
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	0.3	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	0.9	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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Project: Yellow Jacket
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QUALITY CONTROL REPORT WHI16000160.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1542523	Drill Core	4	133	7.49	162	0.025	<20	5.94	0.008	0.18	<0.1	<0.01	34.1	<0.1	<0.05	14	<0.5	<0.2
REP 1542523	QC	4	134	7.29	165	0.024	<20	5.85	0.008	0.17	<0.1	<0.01	34.5	<0.1	<0.05	14	<0.5	<0.2
1542556	Drill Core	<1	525	10.26	2	0.002	<20	1.30	0.002	<0.01	<0.1	<0.01	12.7	<0.1	0.11	2	<0.5	<0.2
REP 1542556	QC	<1	513	9.77	2	0.002	<20	1.24	0.001	<0.01	<0.1	<0.01	12.1	<0.1	0.11	2	<0.5	<0.2
1542591	Rock Pulp	6	28	0.80	21	0.020	<20	1.34	0.047	0.22	34.5	0.01	1.9	0.1	6.39	5	1.7	1.1
REP 1542591	QC	6	28	0.80	21	0.020	<20	1.32	0.047	0.21	37.0	0.01	1.9	0.1	6.36	5	1.6	1.0
1542620	Drill Core	<1	434	12.87	1	<0.001	<20	0.18	0.003	<0.01	<0.1	<0.01	5.8	<0.1	0.11	<1	<0.5	<0.2
REP 1542620	QC	<1	452	12.83	2	<0.001	<20	0.18	<0.001	<0.01	<0.1	<0.01	5.7	<0.1	0.11	<1	<0.5	<0.2
Core Reject Duplicates																		
1542526	Drill Core	20	23	2.67	133	0.006	<20	2.50	0.057	0.19	<0.1	<0.01	6.0	<0.1	<0.05	10	<0.5	<0.2
DUP 1542526	QC	20	23	2.72	130	0.006	<20	2.52	0.052	0.18	<0.1	<0.01	6.2	<0.1	<0.05	11	<0.5	<0.2
1542560	Drill Core	<1	281	7.79	8	<0.001	<20	0.90	0.002	0.06	<0.1	<0.01	9.7	<0.1	0.09	2	<0.5	<0.2
DUP 1542560	QC	<1	277	7.91	8	<0.001	<20	0.92	0.002	0.06	<0.1	<0.01	9.6	<0.1	0.09	2	<0.5	<0.2
Reference Materials																		
STD DS10	Standard	19	58	0.80	434	0.085	<20	1.10	0.072	0.35	3.0	0.28	3.0	5.5	0.29	4	2.2	4.9
STD DS10	Standard	18	57	0.80	437	0.083	<20	1.09	0.072	0.35	2.8	0.31	3.0	5.4	0.29	5	1.9	5.0
STD DS10	Standard	16	53	0.77	402	0.075	<20	1.03	0.068	0.34	3.0	0.30	2.8	5.3	0.28	4	2.3	4.7
STD DS10	Standard	17	53	0.75	402	0.078	<20	1.00	0.065	0.33	3.1	0.28	2.7	5.0	0.27	4	1.8	4.5
STD OREAS45EA	Standard	7	852	0.10	147	0.103	<20	3.29	0.022	0.05	<0.1	<0.01	79.4	<0.1	<0.05	13	0.9	<0.2
STD OREAS45EA	Standard	7	851	0.10	154	0.102	<20	3.21	0.022	0.05	<0.1	0.01	81.0	<0.1	<0.05	13	<0.5	<0.2
STD OREAS45EA	Standard	7	904	0.09	146	0.097	<20	3.29	0.019	0.05	<0.1	<0.01	75.6	0.1	<0.05	13	0.7	<0.2
STD OREAS45EA	Standard	7	855	0.09	139	0.102	<20	3.18	0.021	0.05	<0.1	0.01	78.5	<0.1	<0.05	13	0.7	<0.2
STD DS10 Expected		17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OREAS45EA Expected		7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Project: Yellow Jacket
Report Date: September 06, 2016

QUALITY CONTROL REPORT WHI16000160.1

		WGHT Wgt kg 0.01	AQ200 Mo ppm 0.1	AQ200 Cu ppm 0.1	AQ200 Pb ppm 0.1	AQ200 Zn ppm 1	AQ200 Ag ppm 0.1	AQ200 Ni ppm 0.1	AQ200 Co ppm 0.1	AQ200 Mn ppm 1	AQ200 Fe % 0.01	AQ200 As ppm 0.5	AQ200 Au ppb 0.5	AQ200 Th ppm 0.1	AQ200 Sr ppm 1	AQ200 Cd ppm 0.1	AQ200 Sb ppm 0.1	AQ200 Bi ppm 0.1	AQ200 V ppm 2	AQ200 Ca % 0.01	AQ200 P % 0.001
Prep Wash																					
ROCK-WHI	Prep Blank		1.1	6.5	1.7	30	<0.1	9.8	3.8	392	1.69	1.3	<0.5	2.3	26	<0.1	<0.1	<0.1	21	0.59	0.040
ROCK-WHI	Prep Blank		0.7	7.1	1.3	30	<0.1	4.7	3.7	415	1.73	1.5	<0.5	2.4	28	<0.1	<0.1	<0.1	21	0.61	0.043

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Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Project: Yellow Jacket
Report Date: September 06, 2016

QUALITY CONTROL REPORT WHI16000160.1

		AQ200 La ppm 1	AQ200 Cr ppm 1	AQ200 Mg % 0.01	AQ200 Ba ppm 1	AQ200 Ti % 0.001	AQ200 B ppm 20	AQ200 Al % 0.01	AQ200 Na % 0.001	AQ200 K % 0.01	AQ200 W ppm 0.1	AQ200 Hg ppm 0.01	AQ200 Sc ppm 0.1	AQ200 Tl ppm 0.1	AQ200 S % 0.05	AQ200 Ga ppm 1	AQ200 Se ppm 0.5	AQ200 Te ppm 0.2
Prep Wash																		
ROCK-WHI	Prep Blank	5	5	0.39	68	0.084	<20	0.95	0.107	0.11	0.2	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	5	5	0.40	66	0.085	<20	0.99	0.103	0.10	0.2	<0.01	2.3	<0.1	<0.05	4	<0.5	<0.2

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Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Submitted By: Irwin Olian
Receiving Lab: Canada-Whitehorse
Received: September 07, 2016
Report Date: September 16, 2016
Page: 1 of 2

CERTIFICATE OF ANALYSIS WHI16000160M.1

CLIENT JOB INFORMATION

Project: Yellow Jacket
Shipment ID:
P.O. Number
Number of Samples: 5

SAMPLE DISPOSAL

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PUL85	5	Pulverize to 85% passing 200 mesh			VAN
FS652	5	Metallic Sieve 1 kg to 150 mesh - save + and - fraction		Completed	VAN
FS652	5	Metallic Fire Assay - duplicate minus fraction analysis	50	Completed	VAN
SHP01	5	Per sample shipping charges for branch shipments			VAN
FA550	1	Lead collection fire assay 50G fusion - Grav finish	50	Completed	VAN
FA550	1	Lead collection fire assay 50G fusion - Grav finish	50	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: African Queen Mines Ltd.
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8
Canada

CC: Reinhard Ramdohr

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Geochemical Laboratory Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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PHONE (604) 253-3158

Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Project: Yellow Jacket
Report Date: September 16, 2016

CERTIFICATE OF ANALYSIS WHI16000160M.1

Method		WEI150 1kg	FA450	FA450	FS652	FS652	FS652	FA550	FA550
Analyte		TotWt	-Au	-Au + Au	Wt	+ Au	Au Total	-Au	-Au
Unit		g	gm/t	gm/t	g	gm/t	gm/t	gm/t	gm/t
MDL		1	0.005	0.005	0.01	0.17	0.1	0.9	0.9
1542543	Drill Core	1025	2.209	2.279	28.74	15.52	2.6		
1542561	Drill Core	1026	4.015	4.410	20.52	240.16	8.9		
1542586	Drill Core	1039	>10	>10	30.55	660.65	37.1	18.3	18.1
1542590	Drill Core	1068	1.216	1.367	30.23	8.24	1.5		
1542611	Drill Core	1004	0.140	0.137	22.17	<0.17	0.1		

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Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Project: Yellow Jacket
Report Date: September 16, 2016

QUALITY CONTROL REPORT WHI16000160M.1

	Method	M150 1kg	FA450	FA450	FS652	FS652	FS652	FA550	FA550
	Analyte	TotWt	-Au	-Au	+ Au Wt	+ Au	Au Total	-Au	-Au
	Unit	g	gm/t	gm/t	g	gm/t	gm/t	gm/t	gm/t
	MDL	1	0.005	0.005	0.01	0.17	0.1	0.9	0.9
Pulp Duplicates									
1542586	Drill Core	1039	>10	>10	30.55	660.65	37.1	18.3	18.1
REP 1542586	QC							18.7	18.7
1542611	Drill Core	1004	0.140	0.137	22.17	<0.17	0.1		
REP 1542611	QC			0.149					
Reference Materials									
STD AGPROOF	Standard								<0.9
STD OXD108	Standard		0.426						
STD OXD108	Standard			0.418					
STD OXI121	Standard		1.827						
STD OXI121	Standard			1.830					
STD OXN117	Standard		7.779						
STD OXN117	Standard			7.907					
STD OXP91	Standard				49.30	15.17			
STD OXP91	Standard							14.7	
STD SP49	Standard								18.3
STD SQ70	Standard								40.1
STD OXP91 Expected						14.82			
BLK	Blank		<0.005						
BLK	Blank		<0.005						
BLK	Blank				50.00	<0.17			
BLK	Blank			<0.005					
BLK	Blank							<0.9	
BLK	Blank								<0.9
Prep Wash									
ROCK-WHI	Prep Blank	933	<0.005	<0.005	14.08	<0.17	<0.1		

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Bureau Veritas Commodities Canada Ltd.
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Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Submitted By: Irwin Olian
Receiving Lab: Canada-Whitehorse
Received: August 11, 2016
Report Date: September 16, 2016

CERTIFICATE OF ANALYSIS WHI16000176.1

CLIENT JOB INFORMATION

Project: Yellow Jacket
Shipment ID:
P.O. Number
Number of Samples: 24

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	23	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ200	24	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	24	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

Invoice To: African Queen Mines Ltd.
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8
Canada

CC: Reinhard Ramdohr

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Geochemical Laboratory Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Project: Yellow Jacket
Report Date: September 16, 2016

CERTIFICATE OF ANALYSIS WHI16000176.1

Method		WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1542621	Drill Core	6.31	<0.1	20.2	0.6	14	<0.1	1135.5	56.0	987	2.82	71.9	45.7	<0.1	50	0.1	0.7	<0.1	31	2.24	0.002
1542622	Drill Core	6.48	<0.1	14.7	0.2	10	<0.1	1316.8	65.4	899	3.29	143.6	66.6	<0.1	27	<0.1	0.7	0.1	19	0.59	<0.001
1542623	Drill Core	5.74	<0.1	15.0	0.2	10	<0.1	1437.5	71.1	833	3.30	69.2	30.9	<0.1	24	<0.1	0.5	0.1	18	0.41	<0.001
1542624	Drill Core	2.50	<0.1	14.0	<0.1	9	<0.1	1378.4	67.0	819	3.34	87.4	38.0	<0.1	24	<0.1	0.7	<0.1	18	0.46	<0.001
1542625	Drill Core	5.31	<0.1	11.4	<0.1	7	<0.1	1324.1	66.4	777	3.17	56.8	21.7	<0.1	16	<0.1	0.3	0.1	14	0.32	<0.001
1542626	Drill Core	4.36	<0.1	15.8	0.2	9	<0.1	1350.3	66.7	688	3.53	103.2	31.6	<0.1	25	<0.1	0.6	0.1	22	0.36	<0.001
1542627	Drill Core	5.24	<0.1	31.2	<0.1	8	<0.1	1329.2	69.5	724	3.56	58.6	14.7	<0.1	21	<0.1	0.5	0.2	22	0.33	<0.001
1542628	Drill Core	4.84	0.3	36.3	0.8	11	<0.1	1273.3	66.5	955	3.60	32.1	17.8	0.6	198	<0.1	0.4	0.2	32	4.26	0.019
1542629	Drill Core	5.98	0.4	41.8	0.7	6	<0.1	1351.7	67.8	1116	3.20	80.1	20.5	<0.1	397	<0.1	0.3	0.3	23	8.52	0.003
1542630	Drill Core	5.73	0.4	25.0	0.8	5	0.1	1236.9	62.6	980	3.16	73.1	50.5	<0.1	327	<0.1	0.5	0.2	13	5.95	0.001
1542631	Drill Core	4.30	1.4	44.0	9.6	25	0.2	431.8	39.0	913	4.24	147.0	33.5	4.6	533	<0.1	2.6	0.2	53	6.49	0.147
1542632	Drill Core	5.50	0.8	11.2	2.0	9	<0.1	1402.7	75.3	1054	2.85	97.9	20.3	0.7	405	<0.1	1.8	0.2	20	5.44	0.019
1542633	Drill Core	6.34	1.3	17.4	2.4	14	<0.1	987.8	58.5	818	3.83	94.2	30.7	2.5	189	<0.1	0.9	0.2	43	2.36	0.063
1542634	Drill Core	3.04	3.4	2.5	1.3	56	<0.1	212.9	35.2	790	5.51	12.4	19.2	2.1	168	<0.1	<0.1	<0.1	151	2.88	0.066
1542635	Drill Core	3.19	4.2	2.2	1.5	59	<0.1	213.1	36.0	813	5.19	19.6	4.8	1.8	157	0.1	<0.1	<0.1	154	2.82	0.076
1542636	Drill Core	4.02	3.7	3.2	3.1	53	<0.1	203.0	32.4	791	4.99	14.0	166.1	1.8	214	0.2	<0.1	<0.1	135	3.20	0.083
1542637	Drill Core	4.42	3.0	2.6	2.2	54	0.1	201.9	33.5	940	4.83	14.6	3.3	1.8	244	<0.1	<0.1	<0.1	138	4.07	0.055
1542638	Drill Core	4.42	3.8	6.9	2.0	64	0.1	242.4	39.7	994	5.38	8.9	32.3	2.2	179	0.1	<0.1	<0.1	163	3.68	0.065
1542639	Drill Core	3.05	3.7	3.0	2.3	65	0.2	232.7	38.7	1015	5.34	8.2	24.6	2.2	189	0.1	<0.1	<0.1	162	3.92	0.063
1542640	Drill Core	4.48	2.0	15.5	3.3	51	0.1	237.1	38.0	1170	5.04	47.6	58.6	2.6	351	<0.1	0.3	<0.1	118	5.47	0.077
1542641	Drill Core	3.50	0.2	49.2	2.8	65	0.9	63.0	37.1	961	7.23	12.3	1490.6	<0.1	215	<0.1	0.3	<0.1	185	3.08	0.046
1542642	Rock Pulp	0.06	2.7	61.4	3.8	35	<0.1	7.3	8.1	336	2.83	0.8	<0.5	3.1	74	0.1	<0.1	<0.1	110	0.83	0.071
1542643	Drill Core	5.06	0.3	23.5	1.3	64	0.1	86.4	37.5	1453	6.87	11.1	21.8	<0.1	247	0.1	<0.1	<0.1	183	4.51	0.047
1542644	Drill Core	3.23	0.1	36.9	1.8	54	0.3	44.5	36.1	1298	6.28	3.8	355.3	0.1	130	<0.1	0.2	<0.1	237	3.18	0.052

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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Project: Yellow Jacket
Report Date: September 16, 2016

CERTIFICATE OF ANALYSIS WHI16000176.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1542621	Drill Core	<1	742	8.70	4	0.004	<20	0.71	0.003	<0.01	<0.1	<0.01	6.5	<0.1	0.10	3	<0.5	<0.2
1542622	Drill Core	<1	535	12.23	3	0.001	<20	0.40	0.002	<0.01	<0.1	<0.01	5.5	<0.1	0.11	<1	<0.5	<0.2
1542623	Drill Core	<1	577	12.91	3	<0.001	<20	0.38	<0.001	<0.01	<0.1	<0.01	5.8	<0.1	0.14	<1	<0.5	<0.2
1542624	Drill Core	<1	545	12.32	3	<0.001	<20	0.39	0.001	<0.01	<0.1	<0.01	5.1	<0.1	0.13	<1	<0.5	<0.2
1542625	Drill Core	<1	472	12.10	2	<0.001	<20	0.26	<0.001	<0.01	0.1	<0.01	4.9	<0.1	0.11	<1	<0.5	<0.2
1542626	Drill Core	<1	716	12.13	3	0.001	<20	0.41	0.002	<0.01	0.1	<0.01	6.7	<0.1	0.16	<1	<0.5	<0.2
1542627	Drill Core	<1	763	11.84	2	0.001	<20	0.50	0.002	<0.01	0.1	<0.01	7.4	<0.1	0.35	<1	0.5	<0.2
1542628	Drill Core	4	547	10.72	13	0.003	<20	0.90	0.007	<0.01	<0.1	<0.01	7.6	<0.1	0.24	2	<0.5	<0.2
1542629	Drill Core	<1	631	9.26	11	0.001	<20	0.53	0.003	<0.01	<0.1	<0.01	7.2	<0.1	0.34	1	0.7	<0.2
1542630	Drill Core	<1	416	11.09	12	<0.001	<20	0.26	0.003	0.01	<0.1	<0.01	5.6	<0.1	0.21	<1	<0.5	<0.2
1542631	Drill Core	23	217	7.85	164	0.027	<20	3.02	0.027	0.23	<0.1	<0.01	12.2	<0.1	0.41	6	<0.5	<0.2
1542632	Drill Core	3	529	8.54	36	0.001	<20	0.52	0.006	0.03	<0.1	<0.01	7.4	<0.1	0.22	1	<0.5	<0.2
1542633	Drill Core	12	601	10.56	161	0.025	<20	1.19	0.019	0.08	<0.1	<0.01	10.5	<0.1	0.23	3	<0.5	<0.2
1542634	Drill Core	10	576	7.74	216	0.046	<20	4.13	0.044	0.31	<0.1	<0.01	21.5	<0.1	0.10	11	<0.5	<0.2
1542635	Drill Core	9	603	7.34	104	0.020	<20	4.10	0.039	0.13	<0.1	<0.01	21.7	<0.1	0.07	11	<0.5	<0.2
1542636	Drill Core	8	528	7.68	87	0.014	<20	4.17	0.033	0.11	<0.1	<0.01	20.4	<0.1	0.11	10	<0.5	<0.2
1542637	Drill Core	9	551	7.29	128	0.025	<20	3.65	0.037	0.19	0.2	<0.01	21.9	<0.1	<0.05	10	<0.5	<0.2
1542638	Drill Core	11	645	7.77	100	0.027	<20	4.19	0.040	0.16	0.2	<0.01	24.4	<0.1	0.05	12	<0.5	<0.2
1542639	Drill Core	12	640	7.71	115	0.030	<20	4.10	0.044	0.18	0.3	<0.01	24.1	<0.1	<0.05	12	<0.5	<0.2
1542640	Drill Core	11	470	8.18	39	0.006	<20	3.81	0.027	0.04	<0.1	<0.01	18.7	<0.1	0.18	11	<0.5	<0.2
1542641	Drill Core	1	99	6.59	80	0.003	<20	4.54	0.040	0.15	<0.1	<0.01	28.4	<0.1	1.20	11	<0.5	<0.2
1542642	Rock Pulp	7	16	0.63	128	0.107	<20	1.42	0.168	0.21	6.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
1542643	Drill Core	2	99	7.15	61	0.007	<20	4.41	0.030	0.16	<0.1	<0.01	28.6	<0.1	0.12	11	<0.5	<0.2
1542644	Drill Core	2	107	4.82	250	0.059	<20	3.51	0.055	0.49	<0.1	<0.01	29.2	0.2	0.17	11	<0.5	<0.2

BUREAU VERITAS MINERAL LABORATORIES Canada

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Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Project: Yellow Jacket
Report Date: September 16, 2016

QUALITY CONTROL REPORT WHI16000176.1

	Method	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1542642	Rock Pulp	0.06	2.7	61.4	3.8	35	<0.1	7.3	8.1	336	2.83	0.8	<0.5	3.1	74	0.1	<0.1	<0.1	110	0.83	0.071
REP 1542642	QC		2.9	60.9	3.8	32	<0.1	7.2	8.2	330	2.78	0.5	<0.5	2.6	72	<0.1	<0.1	<0.1	107	0.82	0.068
Reference Materials																					
STD DS10	Standard		15.2	161.0	159.1	383	2.0	78.9	13.4	919	2.90	50.3	56.6	8.3	79	2.5	8.9	14.1	44	1.11	0.082
STD OREAS45EA	Standard		1.7	744.6	15.4	30	0.3	402.2	55.0	451	22.32	11.5	48.5	11.1	4	<0.1	0.2	0.3	325	0.03	0.031
STD DS10 Expected			13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765
STD OREAS45EA Expected			1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036	0.029
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	0.3	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
ROCK-WHI	Prep Blank		0.7	3.8	1.5	32	<0.1	0.9	3.8	437	1.87	<0.5	<0.5	2.5	31	<0.1	<0.1	<0.1	24	0.63	0.043
ROCK-WHI	Prep Blank		0.8	3.6	2.3	34	<0.1	1.1	4.0	450	1.83	0.6	<0.5	2.5	35	<0.1	<0.1	<0.1	24	0.78	0.043

BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Project: Yellow Jacket
Report Date: September 16, 2016

QUALITY CONTROL REPORT WHI16000176.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1542642	Rock Pulp	7	16	0.63	128	0.107	<20	1.42	0.168	0.21	6.1	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
REP 1542642	QC	7	15	0.62	128	0.106	<20	1.42	0.165	0.21	5.9	<0.01	1.9	<0.1	<0.05	4	<0.5	<0.2
Reference Materials																		
STD DS10	Standard	19	57	0.81	454	0.083	<20	1.09	0.073	0.35	3.2	0.29	3.2	5.5	0.29	5	2.1	5.1
STD OREAS45EA	Standard	8	865	0.10	149	0.102	<20	3.45	0.022	0.06	<0.1	<0.01	83.7	<0.1	<0.05	13	1.4	<0.2
STD DS10 Expected		17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OREAS45EA Expected		7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
ROCK-WHI	Prep Blank	6	2	0.42	78	0.091	<20	0.99	0.105	0.10	0.1	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	6	3	0.44	74	0.087	<20	1.10	0.102	0.10	0.2	<0.01	2.7	<0.1	<0.05	5	<0.5	<0.2

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Submitted By: Irwin Olian
Receiving Lab: Canada-Whitehorse
Received: September 19, 2016
Report Date: September 26, 2016

CERTIFICATE OF ANALYSIS WHI16000176M.1

CLIENT JOB INFORMATION

Project: Yellow Jacket
Shipment ID:
P.O. Number
Number of Samples: 1

SAMPLE DISPOSAL

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PUL85	1	Pulverize to 85% passing 200 mesh			VAN
FS652	1	Metallic Sieve 1 kg to 150 mesh - save + and - fraction			VAN
FS652	1	Metallic Fire Assay - duplicate minus fraction analysis	50	Completed	VAN
SHP01	1	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: African Queen Mines Ltd.
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8
Canada

CC: Reinhard Ramdohr

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Production Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Project: Yellow Jacket
Report Date: September 26, 2016

CERTIFICATE OF ANALYSIS WHI16000176M.1

Method	WEI150 1kg	FA450	FA450	FS652	FS652	FS652
Analyte	TotWt	-Au	-Au + Au	Wt	+ Au	Au Total
Unit	g	gm/t	gm/t	g	gm/t	gm/t
MDL	1	0.005	0.005	0.01	0.17	0.1
1542641 Drill Core	1060	1.651	1.659	30.24	39.78	2.7

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Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Project: Yellow Jacket
Report Date: September 26, 2016

QUALITY CONTROL REPORT WHI16000176M.1

		Method	WEI150 1kg	FA450	FA450	FS652	FS652	FS652
		Analyte	TotWt	-Au	-Au	+ Au Wt	+ Au	Au Total
		Unit	g	gm/t	gm/t	g	gm/t	gm/t
		MDL	1	0.005	0.005	0.01	0.17	0.1
Pulp Duplicates								
1542641	Drill Core		1060	1.651	1.659	30.24	39.78	2.7
REP 1542641	QC			1.822				
Reference Materials								
STD OXD108	Standard				0.394			
STD OXD108	Standard			0.401				
STD OXD108	Standard			0.426				
STD OXD108	Standard				0.396			
STD OXI121	Standard				1.818			
STD OXI121	Standard			1.823				
STD OXI121	Standard			1.838				
STD OXI121	Standard				1.751			
STD OXN117	Standard				7.740			
STD OXN117	Standard			7.841				
STD OXN117	Standard			7.833				
STD OXN117	Standard				7.194			
STD OXP91	Standard					49.97	15.11	
STD OXP91 Expected							14.82	
BLK	Blank					50.00	<0.17	
BLK	Blank				<0.005			
BLK	Blank			<0.005				
BLK	Blank			<0.005				
BLK	Blank			<0.005				
BLK	Blank			<0.005				
BLK	Blank				<0.005			
Prep Wash								
ROCK-WHI	Prep Blank		746	0.018	0.017	22.08	<0.17	<0.1

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Submitted By: Irwin Olian
Receiving Lab: Canada-Whitehorse
Received: August 22, 2016
Report Date: September 16, 2016
Page: 1 of 5

CERTIFICATE OF ANALYSIS WHI16000195.1

CLIENT JOB INFORMATION

Project: Yellow Jacket
Shipment ID:
P.O. Number
Number of Samples: 114

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	106	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ200	114	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	114	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

Invoice To: African Queen Mines Ltd.
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8
Canada

CC: Reinhard Ramdohr

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Geochemical Laboratory Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

BUREAU VERITAS MINERAL LABORATORIES Canada

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PHONE (604) 253-3158

Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Project: Yellow Jacket
Report Date: September 16, 2016

CERTIFICATE OF ANALYSIS WHI16000195.1

	Method	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1542645	Drill Core	5.55	<0.1	24.0	0.7	14	<0.1	1783.7	88.6	489	4.28	2.5	2.9	<0.1	17	<0.1	0.2	<0.1	39	0.95	<0.001
1542646	Drill Core	3.71	<0.1	7.1	0.3	11	<0.1	1775.4	89.0	607	4.21	2.2	1.7	<0.1	31	<0.1	<0.1	<0.1	27	2.13	<0.001
1542647	Drill Core	5.54	<0.1	1.2	0.3	55	<0.1	77.9	37.2	794	6.42	<0.5	<0.5	0.1	17	<0.1	0.1	<0.1	239	1.32	0.065
1542648	Drill Core	3.87	<0.1	5.5	0.9	22	<0.1	1798.2	84.8	1029	4.36	1.8	<0.5	<0.1	53	<0.1	<0.1	<0.1	40	3.73	0.004
1542649	Drill Core	5.19	<0.1	10.6	0.7	22	<0.1	1952.2	85.9	702	4.17	3.4	1.1	<0.1	14	<0.1	0.1	<0.1	31	0.60	0.003
1542650	Drill Core	5.82	<0.1	22.5	0.6	11	<0.1	1405.4	72.9	1031	3.04	1.6	4.1	<0.1	57	<0.1	<0.1	<0.1	21	3.94	<0.001
1542651	Drill Core	5.72	<0.1	11.4	1.2	22	<0.1	1000.3	63.7	1703	4.23	0.7	65.9	<0.1	108	<0.1	<0.1	<0.1	107	6.70	0.018
1542652	Rock Pulp	0.06	3.6	109.8	4.1	42	0.1	7.9	9.3	386	2.78	142.1	236.9	2.5	66	<0.1	1.0	0.1	93	0.77	0.062
1542653	Drill Core	3.96	<0.1	10.9	1.0	55	<0.1	669.4	51.1	1564	8.14	0.7	23.6	<0.1	69	0.1	0.2	<0.1	243	3.57	0.046
1542654	Drill Core	3.96	<0.1	11.2	0.7	13	<0.1	1526.9	76.7	885	3.44	1.5	93.5	<0.1	69	<0.1	<0.1	<0.1	35	3.55	0.003
1542655	Drill Core	3.90	<0.1	1.9	0.5	10	<0.1	1518.6	78.7	448	3.64	1.1	2.0	<0.1	34	<0.1	<0.1	<0.1	27	1.81	0.001
1542656	Drill Core	3.40	<0.1	0.9	0.4	10	<0.1	1428.7	65.3	555	3.24	0.8	<0.5	<0.1	46	<0.1	<0.1	<0.1	28	2.69	<0.001
1542657	Drill Core	6.07	<0.1	15.0	0.9	17	0.4	1132.6	61.1	1470	4.11	<0.5	2621.2	<0.1	139	0.1	<0.1	<0.1	67	8.29	0.007
1542658	Drill Core	3.66	<0.1	23.8	0.4	10	<0.1	1650.2	78.1	1082	2.30	2.1	2.2	<0.1	61	0.1	<0.1	<0.1	37	4.27	0.005
1542659	Drill Core	4.10	<0.1	22.8	0.5	15	<0.1	1866.6	83.1	874	3.46	2.6	0.7	<0.1	38	<0.1	<0.1	<0.1	78	2.88	0.009
1542660	Drill Core	4.81	<0.1	19.5	0.6	14	<0.1	2116.3	83.7	486	3.53	10.8	6.2	<0.1	18	<0.1	0.1	<0.1	35	1.07	0.002
1542661	Drill Core	4.31	<0.1	36.1	0.8	14	<0.1	2357.3	96.3	759	3.42	7.4	19.4	<0.1	22	<0.1	<0.1	<0.1	15	1.52	<0.001
1542662	Drill Core	2.63	<0.1	18.1	0.8	16	<0.1	2211.3	97.3	789	3.50	3.0	10.7	<0.1	24	<0.1	<0.1	<0.1	18	1.68	0.002
1542663	Drill Core	5.40	<0.1	9.4	0.6	18	<0.1	1660.2	78.0	688	4.08	1.6	2.1	<0.1	23	<0.1	<0.1	<0.1	49	1.47	0.003
1542664	Drill Core	4.08	<0.1	5.4	0.7	12	<0.1	1440.8	65.2	515	3.46	1.1	2.3	<0.1	32	<0.1	<0.1	<0.1	38	1.43	<0.001
1542665	Drill Core	4.96	<0.1	14.5	0.5	18	<0.1	1620.9	76.7	646	4.13	<0.5	3.4	<0.1	44	<0.1	<0.1	<0.1	56	1.97	0.007
1542666	Drill Core	5.26	<0.1	1.3	0.9	12	<0.1	1504.9	70.3	820	3.88	0.7	4.8	<0.1	56	<0.1	<0.1	<0.1	27	1.70	0.001
1542667	Rock Pulp	0.07	2.8	61.9	3.6	34	0.2	6.7	8.0	320	2.71	0.6	1.1	2.4	66	<0.1	<0.1	<0.1	103	0.77	0.067
1542668	Drill Core	5.91	<0.1	2.1	0.5	14	<0.1	1627.6	73.1	718	3.99	0.9	11.6	<0.1	21	<0.1	<0.1	<0.1	26	0.71	<0.001
1542669	Drill Core	5.44	<0.1	2.1	0.6	12	<0.1	1562.5	75.1	652	3.85	0.7	4.2	<0.1	11	<0.1	<0.1	<0.1	25	0.49	<0.001
1542670	Drill Core	2.44	<0.1	1.6	0.5	11	<0.1	1469.9	68.7	691	3.64	<0.5	5.8	<0.1	15	<0.1	0.1	<0.1	24	0.79	<0.001
1542671	Drill Core	5.30	<0.1	2.7	0.4	13	<0.1	1672.4	80.7	583	3.93	0.7	4.4	<0.1	12	<0.1	<0.1	<0.1	26	0.53	<0.001
1542672	Drill Core	4.51	<0.1	4.0	0.5	12	<0.1	1580.5	79.2	632	3.83	1.1	2.1	<0.1	18	<0.1	<0.1	<0.1	24	0.92	<0.001
1542673	Drill Core	5.59	<0.1	5.5	0.5	12	<0.1	1656.8	82.4	590	3.81	1.1	4.3	<0.1	15	<0.1	0.1	<0.1	24	0.85	<0.001
1542674	Drill Core	5.47	<0.1	9.9	0.5	12	<0.1	1707.3	83.0	562	3.46	1.3	2.8	<0.1	10	<0.1	<0.1	<0.1	20	0.58	<0.001

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Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Project: Yellow Jacket
Report Date: September 16, 2016

CERTIFICATE OF ANALYSIS WHI16000195.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1542645	Drill Core	<1	676	14.13	2	0.012	27	0.53	<0.001	<0.01	<0.1	0.01	11.4	<0.1	0.08	1	<0.5	<0.2
1542646	Drill Core	<1	836	13.69	2	0.002	26	0.25	<0.001	<0.01	<0.1	<0.01	11.0	<0.1	0.07	<1	<0.5	<0.2
1542647	Drill Core	3	105	9.24	4	0.124	<20	4.98	0.054	0.02	<0.1	<0.01	27.8	<0.1	<0.05	8	<0.5	<0.2
1542648	Drill Core	<1	1025	17.15	4	0.010	45	0.71	0.003	<0.01	<0.1	<0.01	8.7	<0.1	0.06	2	<0.5	<0.2
1542649	Drill Core	<1	877	18.07	2	0.008	52	0.51	0.005	<0.01	<0.1	<0.01	8.0	<0.1	0.07	2	<0.5	<0.2
1542650	Drill Core	<1	755	9.91	2	0.001	<20	0.34	0.004	<0.01	<0.1	<0.01	6.1	<0.1	0.08	<1	<0.5	<0.2
1542651	Drill Core	<1	655	10.53	9	0.005	<20	2.39	0.009	<0.01	<0.1	<0.01	14.5	<0.1	0.05	5	<0.5	<0.2
1542652	Rock Pulp	7	15	0.76	123	0.116	<20	1.52	0.160	0.23	6.1	<0.01	2.2	<0.1	<0.05	5	<0.5	<0.2
1542653	Drill Core	2	336	13.08	10	0.006	<20	6.03	0.021	<0.01	<0.1	<0.01	27.0	<0.1	<0.05	13	<0.5	<0.2
1542654	Drill Core	<1	682	10.75	4	0.004	<20	0.61	0.006	<0.01	<0.1	<0.01	7.4	<0.1	0.08	1	<0.5	<0.2
1542655	Drill Core	<1	745	10.52	3	0.003	<20	0.39	0.006	<0.01	<0.1	<0.01	6.8	<0.1	0.06	<1	<0.5	<0.2
1542656	Drill Core	<1	799	10.87	3	0.002	<20	0.41	0.007	<0.01	<0.1	<0.01	6.7	<0.1	<0.05	1	<0.5	<0.2
1542657	Drill Core	<1	740	10.96	10	0.003	<20	1.38	0.018	<0.01	<0.1	<0.01	9.9	<0.1	0.06	3	<0.5	<0.2
1542658	Drill Core	<1	492	7.55	4	0.005	<20	0.70	0.005	<0.01	<0.1	<0.01	6.4	<0.1	0.10	2	<0.5	<0.2
1542659	Drill Core	<1	308	11.39	3	0.013	<20	1.49	0.004	<0.01	<0.1	<0.01	8.7	<0.1	0.10	4	<0.5	<0.2
1542660	Drill Core	<1	471	14.51	3	0.021	36	0.64	0.004	<0.01	<0.1	<0.01	6.6	<0.1	0.10	1	<0.5	<0.2
1542661	Drill Core	<1	563	14.36	8	0.003	31	0.19	0.002	<0.01	<0.1	<0.01	4.3	<0.1	0.12	<1	<0.5	<0.2
1542662	Drill Core	<1	497	14.87	23	0.006	41	0.27	0.003	<0.01	<0.1	<0.01	4.3	<0.1	0.11	1	<0.5	<0.2
1542663	Drill Core	<1	913	14.54	3	0.008	23	0.70	0.004	<0.01	<0.1	<0.01	7.4	<0.1	0.06	2	<0.5	<0.2
1542664	Drill Core	<1	1171	11.98	2	0.002	20	0.54	0.003	<0.01	<0.1	<0.01	7.9	<0.1	0.06	<1	<0.5	<0.2
1542665	Drill Core	<1	756	12.89	6	0.004	22	0.90	0.006	<0.01	<0.1	<0.01	8.8	<0.1	0.07	2	<0.5	<0.2
1542666	Drill Core	<1	803	13.30	3	0.001	46	0.40	0.005	<0.01	<0.1	<0.01	6.8	<0.1	0.05	<1	<0.5	<0.2
1542667	Rock Pulp	7	14	0.59	118	0.102	<20	1.35	0.168	0.21	5.6	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
1542668	Drill Core	<1	938	14.52	2	0.001	28	0.37	0.002	<0.01	<0.1	<0.01	7.2	<0.1	<0.05	<1	<0.5	<0.2
1542669	Drill Core	<1	848	13.01	2	<0.001	26	0.35	0.003	<0.01	<0.1	<0.01	6.8	<0.1	0.05	<1	<0.5	<0.2
1542670	Drill Core	<1	818	12.42	2	<0.001	32	0.34	0.003	<0.01	<0.1	<0.01	6.3	<0.1	0.05	<1	<0.5	<0.2
1542671	Drill Core	<1	886	13.61	2	0.001	32	0.37	0.002	<0.01	<0.1	0.01	7.3	<0.1	0.06	<1	<0.5	<0.2
1542672	Drill Core	<1	813	12.88	2	0.001	33	0.35	0.003	<0.01	<0.1	<0.01	6.7	<0.1	0.06	<1	<0.5	<0.2
1542673	Drill Core	<1	754	12.89	2	0.001	27	0.35	0.001	<0.01	<0.1	<0.01	6.5	<0.1	0.07	<1	<0.5	<0.2
1542674	Drill Core	<1	628	12.51	2	<0.001	<20	0.28	0.002	<0.01	<0.1	<0.01	6.1	<0.1	0.08	<1	<0.5	<0.2

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Project: Yellow Jacket
Report Date: September 16, 2016

CERTIFICATE OF ANALYSIS WHI16000195.1

Method		WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1542675	Drill Core	6.15	<0.1	10.3	0.4	15	<0.1	1483.0	69.5	517	3.36	2.0	2.3	<0.1	23	<0.1	<0.1	<0.1	43	1.11	0.002
1542676	Drill Core	5.33	<0.1	11.2	0.4	13	<0.1	1524.5	69.5	620	3.22	2.3	14.2	<0.1	33	<0.1	<0.1	<0.1	25	1.65	<0.001
1542677	Drill Core	4.11	<0.1	11.9	0.5	15	<0.1	1541.1	72.5	618	3.19	2.6	3.3	<0.1	39	<0.1	<0.1	<0.1	31	1.91	<0.001
1542678	Drill Core	2.35	<0.1	15.0	0.8	16	<0.1	1492.0	69.5	1002	3.15	5.5	3.3	<0.1	71	<0.1	0.2	<0.1	24	3.75	0.001
1542679	Drill Core	5.39	<0.1	5.9	0.5	21	<0.1	1536.3	72.9	943	4.29	6.2	2.0	<0.1	34	<0.1	<0.1	<0.1	57	2.04	0.006
1542680	Drill Core	5.61	<0.1	19.0	0.7	18	<0.1	1926.8	81.7	665	3.70	48.5	4.4	<0.1	13	<0.1	0.3	<0.1	21	0.90	0.004
1542681	Drill Core	5.33	<0.1	54.1	1.0	12	<0.1	2679.3	90.0	458	2.74	15.2	4.9	<0.1	11	<0.1	0.2	<0.1	4	0.92	<0.001
1542682	Drill Core	4.84	<0.1	19.3	0.7	17	<0.1	1718.2	76.4	700	3.39	37.6	3.2	<0.1	20	<0.1	0.3	<0.1	43	1.71	0.005
1542683	Drill Core	4.58	<0.1	13.5	0.5	31	<0.1	1119.0	63.8	1510	4.25	159.7	83.2	<0.1	49	<0.1	0.6	<0.1	125	4.06	0.017
1542684	Drill Core	5.94	<0.1	31.3	0.8	24	<0.1	1102.7	62.7	1402	3.54	128.8	46.2	<0.1	50	0.1	0.4	<0.1	94	3.34	0.019
1542685	Drill Core	5.00	<0.1	3.2	1.2	45	<0.1	48.3	25.7	478	5.66	1.7	2.3	<0.1	63	<0.1	<0.1	<0.1	262	1.55	0.080
1542686	Drill Core	4.69	0.1	3.5	1.0	37	<0.1	149.0	24.5	438	4.49	1.5	2.1	<0.1	58	<0.1	<0.1	<0.1	186	1.35	0.057
1542687	Drill Core	5.61	0.1	5.9	1.2	49	<0.1	126.4	34.1	550	5.88	1.3	1.1	<0.1	55	<0.1	0.1	<0.1	223	1.29	0.059
1542688	Drill Core	3.76	0.1	36.5	0.6	39	<0.1	1062.5	63.7	1580	4.59	121.6	39.7	<0.1	52	0.1	0.5	0.1	124	4.13	0.024
1542689	Drill Core	2.99	<0.1	59.1	0.4	6	<0.1	1277.2	59.7	672	2.38	4.6	1.5	<0.1	13	<0.1	<0.1	0.2	13	2.12	<0.001
1542690	Drill Core	6.44	0.1	49.9	0.7	21	<0.1	1254.0	64.7	1042	3.80	45.8	7.6	<0.1	43	0.2	0.2	0.1	68	3.80	0.011
1542691	Rock Pulp	0.07	4.2	83.6	9.6	16	9.5	27.9	11.0	325	16.93	>10000	>10000	1.5	36	<0.1	3.6	2.4	17	0.89	0.053
1542692	Drill Core	4.18	<0.1	24.2	1.1	63	<0.1	343.6	47.3	708	8.22	4.8	4.4	<0.1	75	0.1	<0.1	<0.1	258	2.45	0.046
1542693	Drill Core	3.55	0.2	47.4	0.4	9	<0.1	1447.7	65.2	1147	3.08	49.9	16.7	<0.1	38	<0.1	0.3	0.2	14	4.26	0.002
1542694	Rock Pulp	0.06	3.3	108.1	5.1	42	0.1	8.4	9.5	384	2.76	136.8	298.3	2.8	67	0.1	1.0	0.1	93	0.76	0.059
1542695	Drill Core	3.15	0.1	44.8	0.5	13	<0.1	1354.3	66.3	855	3.26	52.2	13.7	<0.1	20	<0.1	0.3	0.2	34	2.08	0.008
1542696	Drill Core	2.59	<0.1	10.3	0.5	46	<0.1	72.3	25.2	734	4.77	<0.5	<0.5	<0.1	62	<0.1	<0.1	<0.1	210	2.15	0.059
1542697	Drill Core	3.85	<0.1	81.7	0.5	6	<0.1	1295.9	57.1	654	2.27	101.8	33.6	<0.1	13	<0.1	0.2	0.2	12	2.29	<0.001
1542698	Drill Core	3.70	<0.1	55.8	0.4	9	<0.1	1500.1	67.7	790	3.05	239.2	113.4	<0.1	16	<0.1	0.7	0.3	21	1.82	0.003
1542699	Drill Core	2.60	<0.1	3.7	0.5	39	<0.1	42.1	22.5	550	4.80	<0.5	<0.5	<0.1	36	<0.1	<0.1	<0.1	232	1.62	0.063
1542700	Drill Core	2.55	0.2	0.6	1.2	95	<0.1	188.9	63.3	2063	12.88	39.5	7.3	<0.1	40	<0.1	0.2	<0.1	476	2.81	0.063
1542701	Drill Core	6.62	<0.1	62.7	0.2	13	<0.1	1503.6	67.0	778	3.58	143.8	45.9	<0.1	16	<0.1	0.4	0.2	31	0.80	0.003
1542702	Drill Core	6.16	<0.1	88.8	0.2	8	<0.1	1461.7	66.8	539	2.79	48.5	15.7	<0.1	6	<0.1	0.1	0.2	9	0.32	<0.001
1542703	Drill Core	6.51	<0.1	56.3	0.3	9	<0.1	1331.0	60.3	377	2.76	69.9	18.3	<0.1	7	<0.1	0.3	0.1	27	0.24	0.002
1542704	Drill Core	5.09	<0.1	20.0	0.5	13	<0.1	1567.0	70.8	546	3.52	14.9	2.7	<0.1	6	<0.1	0.1	0.2	46	0.23	0.006

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Project: Yellow Jacket
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CERTIFICATE OF ANALYSIS WHI16000195.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1542675	Drill Core	<1	789	12.90	4	0.011	<20	0.81	0.004	<0.01	<0.1	<0.01	8.7	<0.1	0.07	1	<0.5	<0.2
1542676	Drill Core	<1	830	11.61	4	<0.001	<20	0.37	0.005	<0.01	<0.1	<0.01	6.6	<0.1	0.08	<1	<0.5	<0.2
1542677	Drill Core	<1	983	12.32	5	0.001	23	0.47	0.005	<0.01	<0.1	<0.01	7.3	<0.1	0.08	<1	<0.5	<0.2
1542678	Drill Core	<1	725	10.77	5	0.002	<20	0.38	0.004	<0.01	<0.1	0.01	6.2	<0.1	0.09	<1	<0.5	<0.2
1542679	Drill Core	<1	973	13.91	5	0.010	27	0.93	0.007	<0.01	<0.1	<0.01	9.9	<0.1	0.07	3	<0.5	<0.2
1542680	Drill Core	<1	640	13.02	2	0.003	<20	0.33	0.002	<0.01	<0.1	<0.01	5.7	<0.1	0.12	1	<0.5	<0.2
1542681	Drill Core	<1	136	10.54	<1	<0.001	<20	0.05	0.001	<0.01	<0.1	<0.01	2.3	<0.1	0.22	<1	<0.5	<0.2
1542682	Drill Core	<1	784	11.40	5	0.009	<20	0.71	0.004	<0.01	<0.1	<0.01	7.2	<0.1	0.12	2	<0.5	<0.2
1542683	Drill Core	<1	868	10.21	10	0.011	<20	2.56	0.007	<0.01	<0.1	<0.01	16.2	<0.1	0.08	5	<0.5	<0.2
1542684	Drill Core	<1	702	7.70	15	0.037	<20	1.96	0.023	0.01	<0.1	<0.01	13.6	<0.1	0.14	5	<0.5	<0.2
1542685	Drill Core	<1	29	4.16	80	0.148	<20	4.00	0.177	0.19	<0.1	<0.01	19.5	<0.1	<0.05	9	<0.5	<0.2
1542686	Drill Core	<1	102	5.08	79	0.105	<20	3.66	0.127	0.20	0.2	<0.01	15.8	<0.1	<0.05	8	<0.5	<0.2
1542687	Drill Core	2	78	6.44	45	0.094	<20	4.27	0.084	0.08	0.2	<0.01	19.1	<0.1	0.08	11	<0.5	<0.2
1542688	Drill Core	2	364	7.59	15	0.008	<20	2.49	0.016	<0.01	<0.1	<0.01	14.7	<0.1	0.18	7	<0.5	<0.2
1542689	Drill Core	<1	404	5.18	2	<0.001	<20	0.19	<0.001	<0.01	<0.1	<0.01	7.1	<0.1	0.65	1	<0.5	<0.2
1542690	Drill Core	<1	459	7.68	13	0.004	<20	1.42	0.018	<0.01	<0.1	<0.01	11.0	<0.1	0.34	5	<0.5	<0.2
1542691	Rock Pulp	6	27	0.84	21	0.020	<20	1.38	0.054	0.22	36.4	<0.01	1.9	0.1	6.87	4	1.6	1.1
1542692	Drill Core	2	173	10.32	39	0.014	<20	5.27	0.056	0.03	<0.1	<0.01	25.8	<0.1	0.21	13	<0.5	<0.2
1542693	Drill Core	<1	331	8.05	3	<0.001	<20	0.22	0.001	<0.01	<0.1	<0.01	6.0	<0.1	0.61	1	<0.5	<0.2
1542694	Rock Pulp	7	15	0.76	127	0.119	<20	1.50	0.153	0.23	5.0	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
1542695	Drill Core	<1	321	8.08	4	0.006	<20	0.59	0.003	<0.01	<0.1	<0.01	7.5	<0.1	0.47	2	<0.5	<0.2
1542696	Drill Core	1	38	6.74	24	0.114	<20	4.54	0.113	0.03	<0.1	<0.01	18.4	<0.1	<0.05	11	<0.5	<0.2
1542697	Drill Core	<1	317	4.78	2	<0.001	<20	0.26	<0.001	<0.01	<0.1	<0.01	5.5	<0.1	0.64	2	<0.5	<0.2
1542698	Drill Core	<1	297	7.00	2	0.002	<20	0.36	0.002	<0.01	<0.1	<0.01	7.3	<0.1	0.74	2	<0.5	<0.2
1542699	Drill Core	2	32	7.16	21	0.146	<20	4.52	0.102	0.02	<0.1	<0.01	20.0	<0.1	<0.05	10	<0.5	<0.2
1542700	Drill Core	2	235	10.23	7	0.017	<20	8.10	0.003	<0.01	<0.1	<0.01	42.0	<0.1	<0.05	19	<0.5	<0.2
1542701	Drill Core	<1	503	10.25	3	0.002	<20	0.59	0.003	<0.01	<0.1	<0.01	7.2	<0.1	0.48	1	<0.5	<0.2
1542702	Drill Core	<1	329	7.28	<1	<0.001	<20	0.19	<0.001	<0.01	<0.1	<0.01	4.4	<0.1	0.61	<1	<0.5	<0.2
1542703	Drill Core	<1	422	8.33	2	0.002	<20	0.60	0.002	<0.01	<0.1	<0.01	6.8	<0.1	0.42	1	0.7	<0.2
1542704	Drill Core	<1	658	11.53	2	0.005	<20	0.87	0.002	<0.01	0.1	<0.01	8.3	<0.1	0.28	2	<0.5	<0.2

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Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1542705	Drill Core	4.98	<0.1	62.0	0.5	12	<0.1	1588.0	73.1	804	3.54	74.9	17.4	<0.1	11	<0.1	0.4	0.2	45	0.48	0.007
1542706	Drill Core	6.82	<0.1	55.5	0.4	9	<0.1	1638.7	76.2	575	3.14	58.3	19.4	<0.1	9	<0.1	0.2	0.2	21	0.48	0.001
1542707	Drill Core	6.37	<0.1	35.7	0.3	8	<0.1	1577.4	72.1	697	2.97	94.0	28.5	<0.1	13	<0.1	0.3	0.1	11	0.57	<0.001
1542708	Drill Core	3.54	<0.1	20.3	0.3	10	<0.1	1648.7	74.3	570	3.21	22.3	6.6	<0.1	11	<0.1	<0.1	<0.1	15	0.43	<0.001
1542709	Drill Core	5.73	<0.1	24.1	0.2	10	<0.1	1434.7	66.8	592	3.16	134.4	55.6	<0.1	10	<0.1	0.6	0.2	26	0.40	0.003
1542710	Drill Core	5.58	<0.1	21.9	0.1	8	<0.1	1419.5	69.3	954	3.14	229.6	58.7	<0.1	9	<0.1	0.8	0.2	11	0.37	<0.001
1542711	Drill Core	2.51	<0.1	16.3	0.1	8	<0.1	1486.5	66.9	445	3.01	180.9	62.3	<0.1	25	<0.1	0.6	0.3	11	1.06	<0.001
1542712	Rock Pulp	0.07	2.4	58.0	3.6	34	<0.1	6.8	8.2	312	2.64	<0.5	0.8	2.7	65	<0.1	<0.1	<0.1	100	0.73	0.064
1542713	Drill Core	2.46	<0.1	61.2	0.3	9	<0.1	1516.9	72.2	474	2.89	197.1	45.3	<0.1	28	<0.1	0.3	0.2	12	1.18	<0.001
1542714	Drill Core	5.50	<0.1	42.2	0.6	15	<0.1	1639.3	75.2	687	3.23	419.6	106.5	<0.1	49	<0.1	0.8	0.2	17	1.10	<0.001
1542715	Drill Core	5.33	<0.1	12.2	0.5	18	<0.1	2112.7	76.9	713	3.30	617.8	174.4	<0.1	35	<0.1	1.6	0.2	9	0.64	<0.001
1542716	Drill Core	6.40	<0.1	4.9	0.2	18	<0.1	2087.5	100.5	1067	4.05	398.9	48.3	<0.1	8	<0.1	0.9	<0.1	9	0.08	0.001
1542717	Drill Core	5.13	<0.1	16.7	0.5	12	<0.1	1692.3	77.4	464	3.46	5.1	9.0	<0.1	23	<0.1	<0.1	<0.1	28	0.48	<0.001
1542718	Rock Pulp	0.07	4.0	78.6	8.4	17	9.8	25.4	10.1	303	15.97	>10000	>10000	1.3	32	<0.1	4.1	2.0	21	0.83	0.049
1542719	Drill Core	4.85	<0.1	17.6	0.7	16	<0.1	1533.4	75.1	769	3.51	58.9	5.1	<0.1	104	<0.1	0.4	<0.1	42	1.44	<0.001
1542720	Drill Core	5.62	<0.1	7.9	0.6	23	<0.1	1236.4	60.5	636	3.83	3.4	1.2	<0.1	32	<0.1	<0.1	<0.1	59	1.34	<0.001
1542721	Drill Core	2.04	<0.1	9.6	0.4	16	<0.1	1396.9	63.6	579	3.56	3.6	2.5	<0.1	48	<0.1	<0.1	<0.1	29	1.10	<0.001
1542722	Drill Core	5.24	<0.1	14.3	0.5	20	<0.1	1469.7	71.5	463	3.82	9.8	2.6	<0.1	29	<0.1	<0.1	<0.1	41	0.91	<0.001
1542723	Drill Core	6.11	<0.1	13.5	0.4	16	<0.1	1514.6	72.6	461	3.54	52.9	31.7	<0.1	58	<0.1	0.2	<0.1	36	1.49	<0.001
1542724	Drill Core	2.51	<0.1	12.9	0.4	15	<0.1	1451.5	68.1	487	3.37	70.8	29.5	<0.1	66	<0.1	0.3	<0.1	29	1.75	<0.001
1542725	Drill Core	5.31	<0.1	19.2	0.7	12	<0.1	1681.7	70.3	536	3.45	169.2	48.8	<0.1	25	<0.1	0.5	<0.1	16	0.50	<0.001
1542726	Drill Core	6.44	<0.1	17.0	0.7	11	<0.1	1951.1	90.8	659	3.73	365.3	149.0	<0.1	3	<0.1	0.8	0.1	14	0.06	<0.001
1542727	Drill Core	5.58	<0.1	11.8	0.5	11	<0.1	1856.5	87.4	936	3.52	273.4	60.6	<0.1	21	<0.1	0.5	0.1	16	0.54	<0.001
1542728	Drill Core	6.20	<0.1	18.6	0.5	11	<0.1	1683.7	71.8	603	3.21	194.8	66.5	<0.1	11	<0.1	0.6	<0.1	16	0.24	<0.001
1542729	Drill Core	4.22	<0.1	9.5	0.3	10	<0.1	1807.1	81.3	805	2.73	617.9	64.7	<0.1	12	<0.1	1.6	<0.1	6	0.43	<0.001
1542730	Drill Core	5.22	<0.1	14.4	0.5	13	<0.1	1584.0	73.9	586	3.22	15.0	5.7	<0.1	20	<0.1	<0.1	<0.1	20	0.68	<0.001
1542731	Drill Core	6.45	<0.1	18.4	1.3	18	<0.1	1811.6	85.8	493	4.77	3.2	7.1	<0.1	6	<0.1	<0.1	<0.1	35	0.18	0.001
1542732	Drill Core	5.89	<0.1	10.0	0.7	12	<0.1	1720.8	79.8	619	3.76	7.9	3.7	<0.1	14	<0.1	<0.1	<0.1	24	0.39	<0.001
1542733	Drill Core	5.09	<0.1	10.9	0.5	10	<0.1	1886.3	89.8	858	4.13	4.9	4.4	<0.1	14	<0.1	<0.1	<0.1	17	0.34	<0.001
1542734	Drill Core	4.13	<0.1	3.4	0.3	10	<0.1	1923.2	94.4	894	4.33	4.0	3.8	<0.1	1	<0.1	<0.1	<0.1	14	0.05	<0.001

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Project: Yellow Jacket
Report Date: September 16, 2016

CERTIFICATE OF ANALYSIS WHI16000195.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1542705	Drill Core	<1	502	10.26	2	0.005	<20	0.82	0.002	<0.01	0.1	<0.01	7.6	<0.1	0.52	2	0.5	<0.2
1542706	Drill Core	<1	515	9.87	1	0.002	<20	0.32	0.002	<0.01	<0.1	<0.01	5.5	<0.1	0.43	<1	<0.5	<0.2
1542707	Drill Core	<1	354	10.21	<1	<0.001	<20	0.12	<0.001	<0.01	<0.1	<0.01	4.4	<0.1	0.24	<1	<0.5	<0.2
1542708	Drill Core	<1	456	11.78	1	<0.001	<20	0.19	0.002	<0.01	<0.1	<0.01	5.5	<0.1	0.13	<1	<0.5	<0.2
1542709	Drill Core	<1	412	10.60	2	0.003	<20	0.56	<0.001	<0.01	<0.1	<0.01	6.4	<0.1	0.22	<1	<0.5	<0.2
1542710	Drill Core	<1	424	10.17	1	<0.001	<20	0.22	<0.001	<0.01	<0.1	<0.01	5.2	<0.1	0.25	<1	<0.5	<0.2
1542711	Drill Core	<1	388	9.73	2	<0.001	<20	0.20	0.002	<0.01	<0.1	<0.01	4.8	<0.1	0.25	<1	<0.5	<0.2
1542712	Rock Pulp	7	16	0.58	116	0.105	<20	1.31	0.152	0.20	5.6	<0.01	1.7	<0.1	<0.05	4	<0.5	<0.2
1542713	Drill Core	<1	326	8.55	2	<0.001	<20	0.25	0.003	<0.01	<0.1	<0.01	4.9	<0.1	0.47	<1	<0.5	<0.2
1542714	Drill Core	<1	598	13.56	3	0.002	23	0.34	0.003	<0.01	<0.1	<0.01	5.8	<0.1	0.22	<1	<0.5	<0.2
1542715	Drill Core	<1	267	15.95	3	0.002	49	0.18	0.004	<0.01	<0.1	0.01	3.1	<0.1	0.10	<1	<0.5	<0.2
1542716	Drill Core	<1	331	17.92	3	<0.001	73	0.10	0.001	<0.01	0.4	0.01	4.3	<0.1	0.09	<1	<0.5	<0.2
1542717	Drill Core	<1	796	15.21	2	0.001	<20	0.42	0.001	<0.01	<0.1	<0.01	7.1	<0.1	0.10	<1	<0.5	<0.2
1542718	Rock Pulp	5	26	0.78	20	0.018	<20	1.29	0.048	0.20	34.6	<0.01	1.7	0.1	6.22	5	1.3	0.9
1542719	Drill Core	<1	724	15.20	4	0.005	<20	1.01	0.002	<0.01	<0.1	<0.01	16.5	<0.1	0.08	1	<0.5	<0.2
1542720	Drill Core	<1	653	15.37	10	0.015	26	3.10	0.006	0.01	<0.1	<0.01	20.0	<0.1	<0.05	2	<0.5	<0.2
1542721	Drill Core	<1	753	13.06	2	0.004	<20	0.34	0.003	<0.01	<0.1	<0.01	7.5	<0.1	0.05	<1	<0.5	<0.2
1542722	Drill Core	<1	779	13.63	2	0.007	27	0.56	0.003	<0.01	<0.1	<0.01	11.4	<0.1	0.06	1	<0.5	<0.2
1542723	Drill Core	<1	660	13.56	2	0.005	20	0.45	0.003	<0.01	<0.1	<0.01	10.3	<0.1	0.06	1	<0.5	<0.2
1542724	Drill Core	<1	647	12.87	3	0.003	<20	0.40	0.002	<0.01	<0.1	<0.01	7.7	<0.1	0.06	<1	<0.5	<0.2
1542725	Drill Core	<1	651	15.71	1	0.002	<20	0.20	0.002	<0.01	<0.1	<0.01	5.6	<0.1	0.09	<1	<0.5	<0.2
1542726	Drill Core	<1	451	16.08	1	0.002	<20	0.20	0.002	<0.01	<0.1	<0.01	4.4	<0.1	0.20	<1	<0.5	<0.2
1542727	Drill Core	<1	474	16.27	1	0.001	26	0.16	0.001	<0.01	<0.1	<0.01	5.2	<0.1	0.26	<1	<0.5	<0.2
1542728	Drill Core	<1	579	14.21	1	<0.001	<20	0.19	<0.001	<0.01	<0.1	<0.01	5.4	<0.1	0.10	<1	<0.5	<0.2
1542729	Drill Core	<1	213	13.83	<1	<0.001	<20	0.06	<0.001	<0.01	<0.1	<0.01	2.9	<0.1	0.08	<1	<0.5	<0.2
1542730	Drill Core	<1	627	13.69	2	<0.001	<20	0.23	0.003	<0.01	<0.1	<0.01	6.5	<0.1	0.10	<1	<0.5	<0.2
1542731	Drill Core	<1	649	16.84	2	0.007	29	0.50	0.002	<0.01	<0.1	<0.01	9.1	<0.1	0.12	1	<0.5	<0.2
1542732	Drill Core	<1	647	15.47	2	0.004	32	0.35	0.003	<0.01	<0.1	0.01	6.7	<0.1	0.12	<1	<0.5	<0.2
1542733	Drill Core	<1	526	16.25	1	0.002	<20	0.18	<0.001	<0.01	<0.1	0.02	5.3	<0.1	0.15	<1	<0.5	<0.2
1542734	Drill Core	<1	455	16.08	1	0.002	37	0.14	<0.001	<0.01	<0.1	0.01	4.5	<0.1	0.16	<1	<0.5	<0.2

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Project: Yellow Jacket
Report Date: September 16, 2016

CERTIFICATE OF ANALYSIS WHI16000195.1

Method		WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1542735	Drill Core	3.83	<0.1	8.0	0.6	11	<0.1	1906.1	91.0	764	4.03	8.1	12.2	<0.1	17	<0.1	<0.1	<0.1	16	0.32	<0.001
1542736	Drill Core	3.63	<0.1	11.6	0.5	10	<0.1	1949.7	82.3	633	3.38	175.7	44.6	<0.1	26	<0.1	0.5	<0.1	15	0.54	<0.001
1542737	Drill Core	5.92	<0.1	11.6	0.4	10	<0.1	1974.9	85.8	766	3.09	236.9	29.8	<0.1	66	<0.1	0.7	<0.1	8	1.74	<0.001
1542738	Drill Core	2.16	<0.1	12.6	0.5	10	<0.1	1977.5	83.9	792	3.17	158.3	23.5	<0.1	82	<0.1	0.5	<0.1	8	2.08	0.001
1542739	Drill Core	4.44	<0.1	13.6	0.3	9	<0.1	1751.8	78.0	812	2.98	69.6	12.0	<0.1	58	<0.1	0.2	<0.1	6	1.65	0.001
1542740	Drill Core	4.96	<0.1	36.2	0.3	6	<0.1	1446.9	69.5	504	2.31	54.7	28.0	<0.1	23	<0.1	<0.1	<0.1	14	1.33	0.009
1542741	Drill Core	4.39	<0.1	20.8	0.3	9	<0.1	1741.5	79.5	815	3.18	34.0	1.2	<0.1	65	<0.1	<0.1	<0.1	12	1.88	0.002
1542742	Rock Pulp	0.06	2.7	57.8	3.7	31	<0.1	6.5	7.7	311	2.65	0.9	0.5	2.4	66	<0.1	<0.1	<0.1	102	0.77	0.062
1542743	Drill Core	6.76	<0.1	13.9	0.3	9	<0.1	1717.7	77.6	690	3.33	35.4	1.5	<0.1	31	<0.1	<0.1	<0.1	19	1.16	0.001
1542744	Drill Core	6.56	<0.1	18.2	0.5	9	<0.1	1771.7	81.5	636	3.16	13.6	<0.5	<0.1	8	<0.1	<0.1	<0.1	14	0.38	<0.001
1542745	Drill Core	6.51	<0.1	18.0	0.4	11	<0.1	1667.1	78.2	496	3.30	22.0	<0.5	<0.1	19	<0.1	<0.1	<0.1	22	0.93	<0.001
1542746	Drill Core	4.32	<0.1	13.2	0.3	11	<0.1	1600.8	72.3	535	3.21	79.1	12.5	<0.1	21	<0.1	0.3	<0.1	27	1.04	<0.001
1542747	Drill Core	6.25	0.2	26.5	0.5	10	<0.1	1812.3	83.1	899	3.39	102.1	15.0	<0.1	42	<0.1	0.1	<0.1	19	2.39	<0.001
1542748	Drill Core	5.56	0.1	18.7	0.7	10	<0.1	1690.3	82.3	883	3.04	22.1	6.7	<0.1	50	<0.1	<0.1	0.1	18	3.07	<0.001
1542749	Drill Core	3.77	<0.1	41.7	0.9	12	<0.1	1584.4	78.3	1068	2.73	12.0	1.4	<0.1	38	<0.1	<0.1	0.1	19	2.99	0.002
1542750	Drill Core	5.18	0.2	38.1	1.7	49	<0.1	42.6	26.2	398	4.89	3.3	<0.5	<0.1	26	0.1	0.1	<0.1	209	0.68	0.056
1542751	Drill Core	5.91	0.2	56.8	1.1	40	<0.1	26.5	19.4	411	3.64	0.7	1.3	<0.1	20	0.1	<0.1	<0.1	161	1.17	0.053
1542752	Rock Pulp	0.06	3.1	102.6	3.6	42	0.1	7.2	9.1	374	2.63	129.2	360.3	2.5	59	<0.1	1.1	0.1	90	0.77	0.057
1542753	Drill Core	4.66	0.1	45.5	1.3	40	<0.1	18.6	18.6	503	3.86	2.0	<0.5	<0.1	28	<0.1	<0.1	<0.1	161	2.14	0.056
1542754	Drill Core	4.74	0.3	7.7	0.8	43	<0.1	451.8	39.9	1276	4.49	17.0	<0.5	<0.1	40	<0.1	<0.1	<0.1	158	2.97	0.048
1542755	Drill Core	4.27	0.3	17.4	1.1	29	<0.1	672.9	43.6	1467	2.46	117.4	6.0	0.4	73	0.1	1.0	<0.1	61	4.41	0.022
1542756	Drill Core	4.02	0.2	22.4	2.2	60	<0.1	533.6	43.1	952	3.64	21.1	3.7	1.2	50	<0.1	<0.1	<0.1	112	2.07	0.042
1542757	Drill Core	2.57	1.5	3.2	1.0	45	<0.1	131.1	26.8	771	3.95	3.9	0.5	1.1	37	<0.1	<0.1	<0.1	145	1.09	0.046
1542758	Drill Core	4.69	0.9	5.0	1.4	58	<0.1	154.9	23.8	334	3.34	3.2	2.4	1.5	45	<0.1	<0.1	<0.1	98	0.56	0.045

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	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
1542735	Drill Core	<1	535	16.59	2	0.002	38	0.21	0.002	<0.01	<0.1	0.01	5.6	<0.1	0.17	<1	<0.5	<0.2
1542736	Drill Core	<1	459	15.93	2	0.002	<20	0.20	0.001	<0.01	<0.1	<0.01	4.7	<0.1	0.12	<1	<0.5	<0.2
1542737	Drill Core	<1	266	16.00	3	0.001	<20	0.21	0.003	<0.01	<0.1	<0.01	2.8	<0.1	0.11	<1	<0.5	<0.2
1542738	Drill Core	<1	241	15.98	3	0.002	<20	0.22	0.003	<0.01	<0.1	<0.01	2.6	<0.1	0.12	<1	<0.5	<0.2
1542739	Drill Core	<1	219	14.53	2	<0.001	<20	0.08	0.004	<0.01	<0.1	<0.01	2.3	<0.1	0.12	<1	<0.5	<0.2
1542740	Drill Core	<1	641	7.25	3	<0.001	<20	0.30	0.002	<0.01	<0.1	<0.01	4.7	<0.1	0.26	<1	<0.5	<0.2
1542741	Drill Core	<1	446	13.43	2	0.001	<20	0.22	0.001	<0.01	<0.1	<0.01	4.7	<0.1	0.16	<1	<0.5	<0.2
1542742	Rock Pulp	7	15	0.58	116	0.100	<20	1.33	0.160	0.19	5.3	<0.01	1.6	<0.1	<0.05	4	<0.5	<0.2
1542743	Drill Core	<1	611	15.44	2	0.002	<20	0.39	0.002	<0.01	<0.1	<0.01	6.9	<0.1	0.12	<1	<0.5	<0.2
1542744	Drill Core	<1	542	14.83	1	<0.001	<20	0.17	0.001	<0.01	<0.1	<0.01	5.2	<0.1	0.13	<1	<0.5	<0.2
1542745	Drill Core	<1	749	14.94	2	<0.001	<20	0.31	0.002	<0.01	<0.1	<0.01	6.7	<0.1	0.13	<1	<0.5	<0.2
1542746	Drill Core	<1	1002	14.25	3	0.001	<20	0.58	0.003	<0.01	<0.1	<0.01	7.1	<0.1	0.10	<1	<0.5	<0.2
1542747	Drill Core	<1	665	13.51	4	0.002	<20	0.35	0.003	<0.01	<0.1	<0.01	5.8	<0.1	0.17	<1	<0.5	<0.2
1542748	Drill Core	<1	554	11.49	4	0.001	25	0.38	0.006	<0.01	<0.1	<0.01	6.7	<0.1	0.19	<1	<0.5	<0.2
1542749	Drill Core	<1	558	9.98	5	0.002	23	0.34	0.008	<0.01	<0.1	0.01	5.4	0.1	0.26	1	<0.5	<0.2
1542750	Drill Core	2	54	4.29	43	0.126	<20	2.85	0.139	0.06	<0.1	0.02	16.3	<0.1	0.08	9	<0.5	<0.2
1542751	Drill Core	2	42	2.74	53	0.173	<20	2.06	0.186	0.11	<0.1	<0.01	10.8	<0.1	<0.05	7	<0.5	<0.2
1542752	Rock Pulp	6	13	0.77	117	0.104	<20	1.46	0.149	0.22	4.6	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2
1542753	Drill Core	2	40	2.41	38	0.207	<20	2.08	0.173	0.09	<0.1	<0.01	12.8	<0.1	<0.05	7	<0.5	<0.2
1542754	Drill Core	2	365	7.14	19	0.122	<20	4.05	0.054	0.03	<0.1	<0.01	14.8	<0.1	<0.05	10	<0.5	<0.2
1542755	Drill Core	3	573	4.77	20	0.005	23	1.69	0.022	0.02	<0.1	<0.01	11.1	<0.1	0.08	5	<0.5	<0.2
1542756	Drill Core	7	545	6.62	85	0.029	<20	3.16	0.043	0.20	<0.1	<0.01	17.2	<0.1	0.11	8	0.7	<0.2
1542757	Drill Core	6	313	5.93	151	0.076	29	3.60	0.103	0.24	<0.1	<0.01	17.9	<0.1	<0.05	8	<0.5	<0.2
1542758	Drill Core	7	342	4.82	542	0.141	<20	2.94	0.141	0.93	<0.1	<0.01	11.4	0.3	<0.05	7	<0.5	<0.2

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Project: Yellow Jacket
Report Date: September 16, 2016

QUALITY CONTROL REPORT WHI16000195.1

	Method	WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
1542646	Drill Core	3.71	<0.1	7.1	0.3	11	<0.1	1775.4	89.0	607	4.21	2.2	1.7	<0.1	31	<0.1	<0.1	<0.1	27	2.13	<0.001
REP 1542646	QC		<0.1	7.1	0.2	10	<0.1	1711.5	85.3	585	4.05	2.1	1.8	<0.1	29	<0.1	0.1	<0.1	26	2.03	<0.001
1542648	Drill Core	3.87	<0.1	5.5	0.9	22	<0.1	1798.2	84.8	1029	4.36	1.8	<0.5	<0.1	53	<0.1	<0.1	<0.1	40	3.73	0.004
REP 1542648	QC		<0.1	5.9	0.8	22	<0.1	1777.4	81.6	1007	4.30	2.0	<0.5	<0.1	51	<0.1	0.1	<0.1	40	3.69	0.004
1542681	Drill Core	5.33	<0.1	54.1	1.0	12	<0.1	2679.3	90.0	458	2.74	15.2	4.9	<0.1	11	<0.1	0.2	<0.1	4	0.92	<0.001
REP 1542681	QC		0.1	57.5	1.1	13	<0.1	2731.6	94.4	463	2.77	16.0	4.2	<0.1	12	<0.1	0.2	<0.1	4	0.92	<0.001
1542716	Drill Core	6.40	<0.1	4.9	0.2	18	<0.1	2087.5	100.5	1067	4.05	398.9	48.3	<0.1	8	<0.1	0.9	<0.1	9	0.08	0.001
REP 1542716	QC		<0.1	4.6	0.2	18	<0.1	2129.0	101.9	1099	4.17	397.5	52.4	<0.1	8	<0.1	1.0	<0.1	9	0.09	0.002
1542751	Drill Core	5.91	0.2	56.8	1.1	40	<0.1	26.5	19.4	411	3.64	0.7	1.3	<0.1	20	0.1	<0.1	<0.1	161	1.17	0.053
REP 1542751	QC		0.3	58.8	1.2	40	<0.1	26.8	19.3	409	3.67	0.6	<0.5	<0.1	21	0.2	<0.1	<0.1	162	1.14	0.051
Core Reject Duplicates																					
1542668	Drill Core	5.91	<0.1	2.1	0.5	14	<0.1	1627.6	73.1	718	3.99	0.9	11.6	<0.1	21	<0.1	<0.1	<0.1	26	0.71	<0.001
DUP 1542668	QC		<0.1	1.6	0.5	12	<0.1	1535.1	73.8	691	3.76	1.1	3.3	<0.1	21	<0.1	<0.1	<0.1	24	0.70	<0.001
1542702	Drill Core	6.16	<0.1	88.8	0.2	8	<0.1	1461.7	66.8	539	2.79	48.5	15.7	<0.1	6	<0.1	0.1	0.2	9	0.32	<0.001
DUP 1542702	QC		<0.1	84.2	0.2	8	<0.1	1419.5	67.0	527	2.70	50.3	17.4	<0.1	6	<0.1	0.2	0.2	8	0.31	<0.001
1542736	Drill Core	3.63	<0.1	11.6	0.5	10	<0.1	1949.7	82.3	633	3.38	175.7	44.6	<0.1	26	<0.1	0.5	<0.1	15	0.54	<0.001
DUP 1542736	QC		<0.1	11.8	0.5	11	<0.1	1927.8	84.7	622	3.37	195.1	45.7	<0.1	25	<0.1	0.7	<0.1	15	0.51	<0.001
Reference Materials																					
STD DS10	Standard		13.6	150.8	151.6	367	1.7	73.6	12.8	874	2.72	44.5	108.0	7.1	67	2.4	8.5	13.4	42	1.05	0.080
STD DS10	Standard		14.0	157.8	149.4	372	1.8	74.2	12.9	882	2.80	46.3	90.2	7.1	69	2.7	7.1	12.4	43	1.03	0.072
STD DS10	Standard		13.9	158.0	147.9	358	1.9	76.5	12.4	879	2.78	41.8	55.1	7.2	64	2.3	6.8	12.2	42	1.06	0.071
STD DS10	Standard		14.2	152.6	159.9	359	1.8	75.8	12.7	883	2.79	47.1	84.2	8.4	72	2.7	7.5	13.4	43	1.07	0.078
STD DS10	Standard		15.0	156.0	145.5	371	1.9	74.4	13.0	890	2.80	46.8	70.4	7.1	66	2.6	8.0	12.5	42	1.07	0.073
STD OREAS45EA	Standard		1.1	671.6	13.7	31	0.2	372.2	49.4	395	20.85	11.0	56.8	9.9	4	<0.1	0.2	0.3	293	0.03	0.028
STD OREAS45EA	Standard		1.4	714.9	13.6	34	0.2	404.9	53.6	416	23.28	11.1	52.0	9.9	4	<0.1	0.2	0.2	313	0.03	0.028
STD OREAS45EA	Standard		1.6	734.6	14.3	32	0.2	416.6	54.0	429	22.64	10.5	51.6	10.3	4	<0.1	0.2	0.2	317	0.03	0.030
STD OREAS45EA	Standard		1.5	730.3	14.8	34	0.2	413.7	53.7	425	22.73	11.0	52.0	10.8	4	<0.1	0.2	0.3	315	0.03	0.030
STD OREAS45EA	Standard		1.5	712.5	14.2	32	0.3	395.0	53.6	440	22.57	11.1	58.6	10.1	4	<0.1	0.4	0.3	322	0.03	0.028

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Project: Yellow Jacket
Report Date: September 16, 2016

QUALITY CONTROL REPORT WHI16000195.1

	Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																		
1542646	Drill Core	<1	836	13.69	2	0.002	26	0.25	<0.001	<0.01	<0.1	<0.01	11.0	<0.1	0.07	<1	<0.5	<0.2
REP 1542646	QC	<1	803	13.31	2	0.002	20	0.24	<0.001	<0.01	<0.1	<0.01	10.8	<0.1	0.07	<1	<0.5	<0.2
1542648	Drill Core	<1	1025	17.15	4	0.010	45	0.71	0.003	<0.01	<0.1	<0.01	8.7	<0.1	0.06	2	<0.5	<0.2
REP 1542648	QC	<1	998	16.44	4	0.010	34	0.70	0.003	<0.01	<0.1	<0.01	8.4	<0.1	0.06	2	<0.5	<0.2
1542681	Drill Core	<1	136	10.54	<1	<0.001	<20	0.05	0.001	<0.01	<0.1	<0.01	2.3	<0.1	0.22	<1	<0.5	<0.2
REP 1542681	QC	<1	139	10.93	<1	<0.001	<20	0.05	0.002	<0.01	<0.1	<0.01	2.4	<0.1	0.22	<1	<0.5	<0.2
1542716	Drill Core	<1	331	17.92	3	<0.001	73	0.10	0.001	<0.01	0.4	0.01	4.3	<0.1	0.09	<1	<0.5	<0.2
REP 1542716	QC	<1	331	18.35	3	<0.001	78	0.10	0.002	<0.01	0.4	0.01	4.4	<0.1	0.09	<1	<0.5	<0.2
1542751	Drill Core	2	42	2.74	53	0.173	<20	2.06	0.186	0.11	<0.1	<0.01	10.8	<0.1	<0.05	7	<0.5	<0.2
REP 1542751	QC	2	43	2.73	53	0.179	<20	2.04	0.184	0.11	<0.1	<0.01	11.4	<0.1	<0.05	8	<0.5	<0.2
Core Reject Duplicates																		
1542668	Drill Core	<1	938	14.52	2	0.001	28	0.37	0.002	<0.01	<0.1	<0.01	7.2	<0.1	<0.05	<1	<0.5	<0.2
DUP 1542668	QC	<1	868	13.23	2	0.001	27	0.34	0.002	<0.01	<0.1	0.01	7.0	<0.1	<0.05	<1	<0.5	<0.2
1542702	Drill Core	<1	329	7.28	<1	<0.001	<20	0.19	<0.001	<0.01	<0.1	<0.01	4.4	<0.1	0.61	<1	<0.5	<0.2
DUP 1542702	QC	<1	318	7.08	<1	<0.001	<20	0.17	<0.001	<0.01	<0.1	<0.01	4.2	<0.1	0.58	<1	<0.5	<0.2
1542736	Drill Core	<1	459	15.93	2	0.002	<20	0.20	0.001	<0.01	<0.1	<0.01	4.7	<0.1	0.12	<1	<0.5	<0.2
DUP 1542736	QC	<1	474	15.89	2	0.002	<20	0.20	0.002	<0.01	<0.1	0.01	5.0	<0.1	0.11	<1	<0.5	<0.2
Reference Materials																		
STD DS10	Standard	17	56	0.78	425	0.075	23	1.04	0.073	0.33	3.0	0.27	2.7	5.3	0.29	4	3.7	5.1
STD DS10	Standard	18	54	0.81	426	0.079	<20	1.03	0.069	0.32	2.8	0.31	3.0	5.3	0.27	5	3.0	5.0
STD DS10	Standard	17	57	0.78	411	0.080	<20	1.04	0.073	0.34	2.9	0.26	2.8	5.1	0.29	4	1.7	5.0
STD DS10	Standard	17	56	0.78	439	0.083	<20	1.05	0.074	0.35	3.0	0.22	3.2	5.5	0.29	4	2.3	5.2
STD DS10	Standard	17	53	0.79	418	0.073	<20	1.05	0.070	0.34	3.4	0.29	2.9	5.2	0.29	4	1.8	5.1
STD OREAS45EA	Standard	7	836	0.10	143	0.088	22	3.24	0.026	0.05	<0.1	<0.01	80.0	<0.1	<0.05	12	<0.5	<0.2
STD OREAS45EA	Standard	7	882	0.10	145	0.100	<20	3.46	0.025	0.06	<0.1	0.01	80.2	<0.1	<0.05	13	1.2	<0.2
STD OREAS45EA	Standard	7	912	0.10	148	0.104	<20	3.41	0.029	0.06	<0.1	0.01	84.7	<0.1	<0.05	13	<0.5	<0.2
STD OREAS45EA	Standard	7	908	0.09	149	0.104	<20	3.36	0.027	0.06	<0.1	<0.01	83.1	<0.1	<0.05	13	1.0	<0.2
STD OREAS45EA	Standard	7	950	0.10	146	0.091	<20	3.27	0.022	0.05	<0.1	<0.01	80.1	<0.1	<0.05	12	0.5	<0.2

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		WGHT	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
STD DS10 Expected			13.6	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765
STD OREAS45EA Expected			1.6	709	14.3	31.4	0.26	381	52	400	23.51	10.3	53	10.7	3.5	0.03	0.32	0.26	303	0.036	0.029
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
ROCK-WHI	Prep Blank		0.6	4.8	1.3	293	<0.1	1.6	3.5	416	1.67	0.7	4.1	2.2	27	1.4	<0.1	<0.1	22	0.62	0.040
ROCK-WHI	Prep Blank		0.6	1.9	1.4	32	<0.1	1.6	3.9	425	1.75	0.9	0.9	2.5	29	<0.1	<0.1	<0.1	23	0.63	0.041

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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD DS10 Expected		17.5	54.6	0.775	412	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OREAS45EA Expected		7.06	849	0.095	148	0.0984		3.13	0.02	0.053			78	0.072	0.036	12.4	0.78	0.07
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<20	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
ROCK-WHI	Prep Blank	5	3	0.41	65	0.073	<20	0.95	0.080	0.09	0.1	<0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	5	3	0.42	86	0.084	<20	1.00	0.102	0.10	0.2	<0.01	3.2	<0.1	<0.05	4	<0.5	<0.2

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Submitted By: Irwin Olian
Receiving Lab: Canada-Whitehorse
Received: September 19, 2016
Report Date: September 26, 2016

CERTIFICATE OF ANALYSIS WHI16000195M.1

CLIENT JOB INFORMATION

Project: Yellow Jacket
Shipment ID:
P.O. Number
Number of Samples: 1

SAMPLE DISPOSAL

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PUL85	1	Pulverize to 85% passing 200 mesh			VAN
FS652	1	Metallic Sieve 1 kg to 150 mesh - save + and - fraction			VAN
FS652	1	Metallic Fire Assay - duplicate minus fraction analysis	50	Completed	VAN
SHP01	1	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: African Queen Mines Ltd.
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8
Canada

CC: Reinhard Ramdohr

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Production Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Project: Yellow Jacket
Report Date: September 26, 2016

CERTIFICATE OF ANALYSIS WHI16000195M.1

Method	WEI150 1kg	FA450	FA450	FS652	FS652	FS652
Analyte	TotWt	-Au	-Au + Au	Wt	+ Au	Au Total
Unit	g	gm/t	gm/t	g	gm/t	gm/t
MDL	1	0.005	0.005	0.01	0.17	0.1
1542657 Drill Core	1037	0.019	0.024	27.31	<0.17	<0.1

BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.
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PHONE (604) 253-3158

Client: **African Queen Mines Ltd.**
Box 11553
Suite 1450 - 650 West Georgia Street
Vancouver British Columbia V6B 4N8 Canada

Project: Yellow Jacket
Report Date: September 26, 2016

QUALITY CONTROL REPORT WHI16000195M.1

		Method	WEI150 1kg	FA450	FA450	FS652	FS652	FS652
		Analyte	TotWt	-Au	-Au	+ Au Wt	+ Au	Au Total
		Unit	g	gm/t	gm/t	g	gm/t	gm/t
		MDL	1	0.005	0.005	0.01	0.17	0.1
Reference Materials								
STD OXD108	Standard				0.394			
STD OXD108	Standard			0.401				
STD OXI121	Standard				1.818			
STD OXI121	Standard			1.823				
STD OXN117	Standard				7.740			
STD OXN117	Standard			7.841				
STD OXP91	Standard					49.97	15.11	
STD OXP91 Expected							14.82	
BLK	Blank					50.00	<0.17	
BLK	Blank				<0.005			
BLK	Blank			<0.005				
BLK	Blank			<0.005				
Prep Wash								
ROCK-WHI	Prep Blank		738	0.009	0.008	27.00	<0.17	<0.1

Appendix VI

Maxxam Laboratory

Certificates of Analysis for July 2016

Maxxam
A Bureau Veritas Group Company

Success Through Science®

Your Project #: YJ
Site Location: YELLOWJACKET
Your C.O.C. #: 501115-01-01, 501115-02-01

Attention:Linda Dandy

AFRICAN QUEEN MINES LTD.
1153 56TH STREET
BOX 19040
DELTA, BC
CANADA V4L 2P8

Report Date: 2016/08/12
Report #: R2235594
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

MAXXAM JOB #: B661421
Received: 2016/07/25, 00:20

Sample Matrix: Water
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	5	2016/07/27	2016/07/27	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Water	5	2016/07/27	2016/07/28	BBY6SOP-00026	SM 22 2320 B m
Alkalinity - Water	1	2016/07/27	2016/08/03	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	11	N/A	2016/07/27	BBY6SOP-00011	SM 22 4500-Cl- E m
Conductance - water	6	N/A	2016/07/27	BBY6SOP-00026	SM 22 2510 B m
Conductance - water	5	N/A	2016/07/28	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Mining Clients	11	N/A	2016/08/10	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3)	10	N/A	2016/07/27	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3)	1	N/A	2016/07/29	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	11	N/A	2016/07/29	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAF	11	N/A	2016/08/03	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAF	11	2016/08/03	2016/08/03	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	11	N/A	2016/07/29	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	11	N/A	2016/07/28	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	10	2016/07/26	2016/07/27	BBY7SOP-00002	EPA 6020A R1 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	1	2016/07/26	2016/07/29	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (total)	10	2016/07/27	2016/07/27	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Elements by CRC ICPMS (total)	1	2016/07/28	2016/07/29	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Ammonia-N (Preserved)	11	N/A	2016/07/27	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N)	11	N/A	2016/07/27	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	11	N/A	2016/07/27	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	11	N/A	2016/07/28	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	10	N/A	2016/07/27	BBY7 WI-00004	BCMOE Reqs 08/14
Filter and HNO3 Preserve for Metals	1	N/A	2016/07/29	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	6	N/A	2016/07/27	BBY6SOP-00026	SM 22 4500-H+ B m
pH Water (1)	5	N/A	2016/07/28	BBY6SOP-00026	SM 22 4500-H+ B m
Orthophosphate by Konelab	11	N/A	2016/07/27	BBY6SOP-00013	SM 22 4500-P E m
Sulphate by Automated Colourimetry	10	N/A	2016/07/27	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate by Automated Colourimetry	1	N/A	2016/08/03	BBY6SOP-00017	SM 22 4500-SO42- E m

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your Project #: YJ
Site Location: YELLOWJACKET
Your C.O.C. #: 501115-01-01, 501115-02-01

Attention:Linda Dandy

AFRICAN QUEEN MINES LTD.
1153 56TH STREET
BOX 19040
DELTA, BC
CANADA V4L 2P8

Report Date: 2016/08/12
Report #: R2235594
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

MAXXAM JOB #: B661421
Received: 2016/07/25, 00:20

Sample Matrix: Water
Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Phosphorus-P (Total, dissolved) - FF/FP	11	2016/07/28	2016/07/28	BBY6SOP-00013	SM 22 4500-P E m
Total Suspended Solids	11	2016/07/27	2016/07/28	BBY6SOP-00034	SM 22 2540 D
Turbidity	11	N/A	2016/07/27	BBY6SOP-00027	SM 22 2130 B m

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Veronica De Guzman, Project Manager
Email: VDeGuzman@maxxam.ca
Phone# (604) 734 7276

==========

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B661421
Report Date: 2016/08/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Site Location: YELLOWJACKET
Sampler Initials: LD

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		PC4709		PC4710	PC4711		PC4712		
Sampling Date		2016/07/24 10:05		2016/07/24 18:10	2016/07/24 08:50		2016/07/24 16:15		
COC Number		501115-01-01		501115-01-01	501115-01-01		501115-01-01		
	UNITS	PC-1	QC Batch	PC-2	PC-5	QC Batch	PC-6	RDL	QC Batch
Misc. Inorganics									
Fluoride (F)	mg/L	0.700	8357860	0.690	0.600	8357860	0.690	0.010	8357860
ANIONS									
Nitrite (N)	mg/L	<0.0050	8343515	<0.0050	<0.0050	8343515	<0.0050	0.0050	8343515
Calculated Parameters									
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	<0.020	8340796	<0.020	<0.020	8340796	<0.020	0.020	8340796
Misc. Inorganics									
Alkalinity (Total as CaCO3)	mg/L	39.5	8342556	42.4	56.8	8342800	41.0	0.50	8342556
Alkalinity (PP as CaCO3)	mg/L	<0.50	8342556	<0.50	<0.50	8342800	<0.50	0.50	8342556
Bicarbonate (HCO3)	mg/L	48.2	8342556	51.7	69.3	8342800	50.1	0.50	8342556
Carbonate (CO3)	mg/L	<0.50	8342556	<0.50	<0.50	8342800	<0.50	0.50	8342556
Hydroxide (OH)	mg/L	<0.50	8342556	<0.50	<0.50	8342800	<0.50	0.50	8342556
Anions									
Dissolved Sulphate (SO4)	mg/L	4.71	8343446	4.99	5.98	8343446	4.72	0.50	8343446
Dissolved Chloride (Cl)	mg/L	<0.50	8343442	0.60	0.61	8343442	<0.50	0.50	8343442
Nutrients									
Orthophosphate (P)	mg/L	<0.0050	8342393	<0.0050	<0.0050	8342393	<0.0050	0.0050	8342393
Dissolved Phosphorus (P)	mg/L	<0.0050	8343784	<0.0050	<0.0050	8343784	<0.0050	0.0050	8343784
Total Ammonia (N)	mg/L	0.036	8342054	0.023	0.014	8342054	0.020	0.0050	8342055
Nitrate plus Nitrite (N)	mg/L	<0.020	8343504	<0.020	<0.020	8343504	<0.020	0.020	8343504
Physical Properties									
Conductivity	uS/cm	92.9	8342563	99.0	128	8342799	95.1	1.0	8342563
pH	pH	7.85	8342564	7.94	8.05	8342786	7.89		8342564
Physical Properties									
Total Suspended Solids	mg/L	<4.0	8341804	<4.0	<4.0	8341804	<4.0	4.0	8341804
Turbidity	NTU	2.22	8342187	1.65	2.13	8342187	2.15	0.10	8342187

RDL = Reportable Detection Limit
N/A = Not Applicable

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B661421
Report Date: 2016/08/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Site Location: YELLOWJACKET
Sampler Initials: LD

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		PC4713		PC4714		PC4715		
Sampling Date		2016/07/24 15:45		2016/07/24 14:05		2016/07/24 13:40		
COC Number		501115-01-01		501115-01-01		501115-01-01		
	UNITS	MW09-1D	QC Batch	MW09-2S	QC Batch	MW09-2D	RDL	QC Batch
Misc. Inorganics								
Fluoride (F)	mg/L	0.180	8357860	0.160	8357860	0.130	0.010	8357860
ANIONS								
Nitrite (N)	mg/L	<0.0050	8343515	<0.0050	8343515	<0.0050	0.0050	8343515
Calculated Parameters								
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	<0.020	8340796	0.136	8340796	0.027	0.020	8340796
Misc. Inorganics								
Alkalinity (Total as CaCO3)	mg/L	855	8342800	64.4	8342572	141	0.50	8342556
Alkalinity (PP as CaCO3)	mg/L	<0.50	8342800	<0.50	8342572	<0.50	0.50	8342556
Bicarbonate (HCO3)	mg/L	1040	8342800	78.5	8342572	172	0.50	8342556
Carbonate (CO3)	mg/L	<0.50	8342800	<0.50	8342572	<0.50	0.50	8342556
Hydroxide (OH)	mg/L	<0.50	8342800	<0.50	8342572	<0.50	0.50	8342556
Anions								
Dissolved Sulphate (SO4)	mg/L	127	8343446	6.88	8343446	23.9	0.50	8350400
Dissolved Chloride (Cl)	mg/L	2.6	8343442	1.0	8343442	1.7	0.50	8343442
Nutrients								
Orthophosphate (P)	mg/L	0.0070	8342393	0.0252	8342393	0.0437	0.0050	8342393
Dissolved Phosphorus (P)	mg/L	0.0871	8343784	0.0262	8343784	0.0475	0.0050	8343784
Total Ammonia (N)	mg/L	0.24	8342054	0.021	8342055	0.044	0.0050	8342055
Nitrate plus Nitrite (N)	mg/L	<0.020	8343504	0.136	8343504	0.027	0.020	8343504
Physical Properties								
Conductivity	uS/cm	1580	8342799	120	8342571	322	1.0	8342563
pH	pH	7.96	8342786	8.02	8342567	8.12		8342564
Physical Properties								
Total Suspended Solids	mg/L	15.0	8341804	14.8	8341804	<4.0	4.0	8341804
Turbidity	NTU	93.3	8342187	24.9	8342187	3.52	0.10	8342187

RDL = Reportable Detection Limit
N/A = Not Applicable

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B661421
Report Date: 2016/08/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Site Location: YELLOWJACKET
Sampler Initials: LD

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		PC4716			PC4717	PC4718		PC4719		
Sampling Date		2016/07/24 12:30			2016/07/24 10:30	2016/07/24 14:20		2016/07/24 13:40		
COC Number		501115-01-01			501115-02-01	501115-02-01		501115-02-01		
	UNITS	MW09-3	RDL	QC Batch	DUP1	DUP2	QC Batch	FIELD BLANK	RDL	QC Batch
Misc. Inorganics										
Fluoride (F)	mg/L	0.160	0.010	8357860	0.700	0.130	8357860	<0.010	0.010	8357860
ANIONS										
Nitrite (N)	mg/L	<0.0050	0.0050	8343515	<0.0050	<0.0050	8343515	<0.0050	0.0050	8343515
Calculated Parameters										
Filter and HNO3 Preservation	N/A	FIELD	N/A	ONSITE	FIELD	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	<0.020	0.020	8340796	<0.020	0.029	8340796	<0.020	0.020	8340796
Misc. Inorganics										
Alkalinity (Total as CaCO3)	mg/L	463	0.50	8342556	43.5	146	8342800	<0.50	0.50	8342556
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8342556	<0.50	<0.50	8342800	<0.50	0.50	8342556
Bicarbonate (HCO3)	mg/L	565	0.50	8342556	53.0	178	8342800	<0.50	0.50	8342556
Carbonate (CO3)	mg/L	<0.50	0.50	8342556	<0.50	<0.50	8342800	<0.50	0.50	8342556
Hydroxide (OH)	mg/L	<0.50	0.50	8342556	<0.50	<0.50	8342800	<0.50	0.50	8342556
Anions										
Dissolved Sulphate (SO4)	mg/L	205 (1)	5.0	8343446	4.57	24.9	8343446	<0.50	0.50	8343446
Dissolved Chloride (Cl)	mg/L	1.1	0.50	8343442	<0.50	1.9	8343442	<0.50	0.50	8343442
Nutrients										
Orthophosphate (P)	mg/L	0.0200	0.0050	8342393	<0.0050	0.0250	8342393	<0.0050	0.0050	8342393
Dissolved Phosphorus (P)	mg/L	0.0262	0.0050	8343784	<0.0050	0.0472	8343784	<0.0050	0.0050	8343784
Total Ammonia (N)	mg/L	0.067	0.0050	8342055	0.028	0.023	8342055	<0.0050	0.0050	8342189
Nitrate plus Nitrite (N)	mg/L	<0.020	0.020	8343504	<0.020	0.029	8343504	<0.020	0.020	8343504
Physical Properties										
Conductivity	uS/cm	1140	1.0	8342563	94.7	327	8342799	1.1	1.0	8342563
pH	pH	7.76		8342564	7.88	8.23	8342786	5.41		8342564
Physical Properties										
Total Suspended Solids	mg/L	<4.0	4.0	8341804	<4.0	4.8	8341804	<4.0	4.0	8341804
Turbidity	NTU	2.41	0.10	8342187	2.25	5.93	8342187	<0.10	0.10	8342187

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Detection limits raised due to dilution to bring analyte within the calibrated range.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B661421
Report Date: 2016/08/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Site Location: YELLOWJACKET
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PC4709	PC4710	PC4711	PC4712	PC4713	PC4714		
Sampling Date		2016/07/24 10:05	2016/07/24 18:10	2016/07/24 08:50	2016/07/24 16:15	2016/07/24 15:45	2016/07/24 14:05		
COC Number		501115-01-01	501115-01-01	501115-01-01	501115-01-01	501115-01-01	501115-01-01		
	UNITS	PC-1	PC-2	PC-5	PC-6	MW09-1D	MW09-2S	RDL	QC Batch
Misc. Inorganics									
Dissolved Hardness (CaCO3)	mg/L	43.5	47.0	58.8	48.1	974	38.2	0.50	8341393
Elements									
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8349250
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	5.0	5.0	48.1	5.1	<3.0	6.2	3.0	8343739
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8343739
Dissolved Arsenic (As)	ug/L	0.49	0.57	0.59	0.57	3.83	1.50	0.10	8343739
Dissolved Barium (Ba)	ug/L	12.7	12.4	13.8	14.6	163	10.7	1.0	8343739
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8343739
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8343739
Dissolved Boron (B)	ug/L	<50	<50	<50	<50	126	<50	50	8343739
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8343739
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	7.4	1.0	8343739
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	<0.50	10.7	<0.50	0.50	8343739
Dissolved Copper (Cu)	ug/L	0.32	0.41	0.39	0.35	<0.20	0.70	0.20	8343739
Dissolved Iron (Fe)	ug/L	6.8	5.5	29.6	5.7	9800	40.8	5.0	8343739
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8343739
Dissolved Lithium (Li)	ug/L	<5.0	<5.0	<5.0	<5.0	20.1	<5.0	5.0	8343739
Dissolved Manganese (Mn)	ug/L	2.0	1.8	1.4	1.6	1380	<1.0	1.0	8343739
Dissolved Molybdenum (Mo)	ug/L	2.7	2.7	2.5	2.8	2.5	<1.0	1.0	8343739
Dissolved Nickel (Ni)	ug/L	1.9	1.6	1.9	1.6	195	1.9	1.0	8343739
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.70 (1)	0.10	8343739
Dissolved Silicon (Si)	ug/L	3560	3590	4110	3500	31400	16000	100	8343739
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	8343739
Dissolved Strontium (Sr)	ug/L	30.2	31.0	37.5	33.3	398	22.0	1.0	8343739
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8343739
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8343739
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8343739
Dissolved Uranium (U)	ug/L	2.17	2.17	1.08	2.49	2.70	0.13	0.10	8343739
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	8.5	5.0	8343739

RDL = Reportable Detection Limit
(1) Dissolved greater than total. Reanalysis yields similar results.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B661421
Report Date: 2016/08/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Site Location: YELLOWJACKET
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PC4709	PC4710	PC4711	PC4712	PC4713	PC4714		
Sampling Date		2016/07/24 10:05	2016/07/24 18:10	2016/07/24 08:50	2016/07/24 16:15	2016/07/24 15:45	2016/07/24 14:05		
COC Number		501115-01-01	501115-01-01	501115-01-01	501115-01-01	501115-01-01	501115-01-01		
	UNITS	PC-1	PC-2	PC-5	PC-6	MW09-1D	MW09-2S	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8343739
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8343739
Dissolved Calcium (Ca)	mg/L	10.4	10.8	13.8	11.6	57.5	5.47	0.050	8340458
Dissolved Magnesium (Mg)	mg/L	4.29	4.90	5.90	4.66	202	5.95	0.050	8340458
Dissolved Potassium (K)	mg/L	0.616	0.656	0.650	0.642	4.68	0.482	0.050	8340458
Dissolved Sodium (Na)	mg/L	1.78	1.81	1.81	1.83	24.6	13.4	0.050	8340458
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	<3.0	<3.0	45.9	<3.0	3.0	8340458

RDL = Reportable Detection Limit

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Maxxam Job #: B661421
Report Date: 2016/08/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Site Location: YELLOWJACKET
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PC4715	PC4716	PC4717	PC4718	PC4719		
Sampling Date		2016/07/24 13:40	2016/07/24 12:30	2016/07/24 10:30	2016/07/24 14:20	2016/07/24 13:40		
COC Number		501115-01-01	501115-01-01	501115-02-01	501115-02-01	501115-02-01		
	UNITS	MW09-2D	MW09-3	DUP1	DUP2	FIELD BLANK	RDL	QC Batch
Misc. Inorganics								
Dissolved Hardness (CaCO3)	mg/L	130	687	44.4	127	<0.50	0.50	8341393
Elements								
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8349250
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	<3.0	4.2	4.8	<3.0	<3.0	3.0	8343739
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8343739
Dissolved Arsenic (As)	ug/L	1.18	1.36	0.58	1.32	<0.10	0.10	8343739
Dissolved Barium (Ba)	ug/L	52.4	96.1	14.0	54.5	<1.0	1.0	8343739
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8343739
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8343739
Dissolved Boron (B)	ug/L	<50	<50	<50	<50	<50	50	8343739
Dissolved Cadmium (Cd)	ug/L	<0.010	0.014	<0.010	<0.010	<0.010	0.010	8343739
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8343739
Dissolved Cobalt (Co)	ug/L	<0.50	2.68	<0.50	<0.50	<0.50	0.50	8343739
Dissolved Copper (Cu)	ug/L	<0.20	1.03	0.33	<0.20	<0.20	0.20	8343739
Dissolved Iron (Fe)	ug/L	1050	183	9.6	1030	<5.0	5.0	8343739
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8343739
Dissolved Lithium (Li)	ug/L	<5.0	24.2	<5.0	<5.0	<5.0	5.0	8343739
Dissolved Manganese (Mn)	ug/L	202	396	2.3	206	<1.0	1.0	8343739
Dissolved Molybdenum (Mo)	ug/L	<1.0	1.4	2.7	<1.0	<1.0	1.0	8343739
Dissolved Nickel (Ni)	ug/L	2.0	61.7	1.8	2.4	<1.0	1.0	8343739
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8343739
Dissolved Silicon (Si)	ug/L	21500	13900	3680	21100	<100	100	8343739
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	8343739
Dissolved Strontium (Sr)	ug/L	64.6	275	31.9	67.0	<1.0	1.0	8343739
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8343739
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8343739
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8343739
Dissolved Uranium (U)	ug/L	0.26	1.58	2.10	0.27	<0.10	0.10	8343739
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8343739
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8343739
RDL = Reportable Detection Limit								

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Maxxam Job #: B661421
Report Date: 2016/08/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Site Location: YELLOWJACKET
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PC4715	PC4716	PC4717	PC4718	PC4719		
Sampling Date		2016/07/24 13:40	2016/07/24 12:30	2016/07/24 10:30	2016/07/24 14:20	2016/07/24 13:40		
COC Number		501115-01-01	501115-01-01	501115-02-01	501115-02-01	501115-02-01		
	UNITS	MW09-2D	MW09-3	DUP1	DUP2	FIELD BLANK	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8343739
Dissolved Calcium (Ca)	mg/L	19.8	90.2	10.6	19.5	<0.050	0.050	8340458
Dissolved Magnesium (Mg)	mg/L	19.5	112	4.36	19.0	<0.050	0.050	8340458
Dissolved Potassium (K)	mg/L	0.675	2.78	0.610	0.647	<0.050	0.050	8340458
Dissolved Sodium (Na)	mg/L	23.1	9.38	1.83	22.7	<0.050	0.050	8340458
Dissolved Sulphur (S)	mg/L	7.2	69.2	<3.0	9.4	<3.0	3.0	8340458
RDL = Reportable Detection Limit								

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Maxxam Job #: B661421
Report Date: 2016/08/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Site Location: YELLOWJACKET
Sampler Initials: LD

CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PC4709	PC4710	PC4711	PC4712	PC4713	PC4714		
Sampling Date		2016/07/24 10:05	2016/07/24 18:10	2016/07/24 08:50	2016/07/24 16:15	2016/07/24 15:45	2016/07/24 14:05		
COC Number		501115-01-01	501115-01-01	501115-01-01	501115-01-01	501115-01-01	501115-01-01		
	UNITS	PC-1	PC-2	PC-5	PC-6	MW09-1D	MW09-2S	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	47.5	50.4	67.3	47.9	1020	38.0	0.50	8340456
Elements									
Total Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8349344
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	61.6	57.6	62.0	58.0	5.4	480	3.0	8342195
Total Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8342195
Total Arsenic (As)	ug/L	0.61	0.67	0.57	0.66	3.98	1.80	0.10	8342195
Total Barium (Ba)	ug/L	14.9	15.0	17.9	14.5	171	13.3	1.0	8342195
Total Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8342195
Total Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8342195
Total Boron (B)	ug/L	<50	<50	<50	<50	144	<50	50	8342195
Total Cadmium (Cd)	ug/L	0.011	0.012	<0.010	0.011	<0.010	0.010	0.010	8342195
Total Chromium (Cr)	ug/L	<1.0	1.6	<1.0	<1.0	<1.0	12.6	1.0	8342195
Total Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	<0.50	10.9	1.55	0.50	8342195
Total Copper (Cu)	ug/L	0.88	1.06	0.82	0.95	<0.50	1.41	0.50	8342195
Total Iron (Fe)	ug/L	153	138	131	115	10300	753	10	8342195
Total Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.61	0.20	8342195
Total Lithium (Li)	ug/L	<5.0	<5.0	<5.0	<5.0	20.8	<5.0	5.0	8342195
Total Manganese (Mn)	ug/L	7.5	7.4	4.5	7.5	1450	16.2	1.0	8342195
Total Molybdenum (Mo)	ug/L	2.9	2.9	2.5	2.8	2.4	<1.0	1.0	8342195
Total Nickel (Ni)	ug/L	2.8	2.8	2.8	2.7	198	30.7	1.0	8342195
Total Selenium (Se)	ug/L	<0.10	<0.10	0.10	<0.10	<0.10	0.45	0.10	8342195
Total Silicon (Si)	ug/L	4080	4280	4350	4090	33800	18300	100	8342195
Total Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	8342195
Total Strontium (Sr)	ug/L	32.2	32.7	41.3	32.8	410	20.5	1.0	8342195
Total Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8342195
Total Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8342195
Total Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	10.6	5.0	8342195
Total Uranium (U)	ug/L	2.35	2.39	1.94	2.38	2.62	0.16	0.10	8342195
Total Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	9.9	5.0	8342195
Total Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8342195

RDL = Reportable Detection Limit

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Maxxam Job #: B661421
Report Date: 2016/08/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Site Location: YELLOWJACKET
Sampler Initials: LD

CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PC4709	PC4710	PC4711	PC4712	PC4713	PC4714		
Sampling Date		2016/07/24 10:05	2016/07/24 18:10	2016/07/24 08:50	2016/07/24 16:15	2016/07/24 15:45	2016/07/24 14:05		
COC Number		501115-01-01	501115-01-01	501115-01-01	501115-01-01	501115-01-01	501115-01-01		
	UNITS	PC-1	PC-2	PC-5	PC-6	MW09-1D	MW09-2S	RDL	QC Batch
Total Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	<0.50	0.55	<0.50	0.50	8342195
Total Calcium (Ca)	mg/L	11.3	12.0	16.2	11.4	59.9	5.24	0.050	8340459
Total Magnesium (Mg)	mg/L	4.70	4.96	6.54	4.72	210	6.04	0.050	8340459
Total Potassium (K)	mg/L	0.683	0.663	0.660	0.675	4.72	0.612	0.050	8340459
Total Sodium (Na)	mg/L	1.93	1.84	1.82	1.91	24.6	13.4	0.050	8340459
Total Sulphur (S)	mg/L	<3.0	<3.0	<3.0	<3.0	42.5	<3.0	3.0	8340459
RDL = Reportable Detection Limit									

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AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Site Location: YELLOWJACKET
Sampler Initials: LD

CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PC4715	PC4716	PC4717	PC4718		PC4719		
Sampling Date		2016/07/24 13:40	2016/07/24 12:30	2016/07/24 10:30	2016/07/24 14:20		2016/07/24 13:40		
COC Number		501115-01-01	501115-01-01	501115-02-01	501115-02-01		501115-02-01		
	UNITS	MW09-2D	MW09-3	DUP1	DUP2	QC Batch	FIELD BLANK	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	132	695	47.7	138	8340456	<0.50	0.50	8340456
Elements									
Total Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	<0.010	8349344	<0.010	0.010	8349344
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	90.5	39.8	62.5	47.7	8342195	<3.0	3.0	8343901
Total Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	8342195	<0.50	0.50	8343901
Total Arsenic (As)	ug/L	1.19	1.49	0.65	1.20	8342195	<0.10	0.10	8343901
Total Barium (Ba)	ug/L	54.2	112	14.6	55.0	8342195	<1.0	1.0	8343901
Total Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	8342195	<0.10	0.10	8343901
Total Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	8342195	<1.0	1.0	8343901
Total Boron (B)	ug/L	<50	<50	<50	<50	8342195	<50	50	8343901
Total Cadmium (Cd)	ug/L	<0.010	0.025	0.012	<0.010	8342195	<0.010	0.010	8343901
Total Chromium (Cr)	ug/L	1.7	<1.0	<1.0	1.1	8342195	<1.0	1.0	8343901
Total Cobalt (Co)	ug/L	0.68	3.19	<0.50	<0.50	8342195	<0.50	0.50	8343901
Total Copper (Cu)	ug/L	0.53	1.64	0.98	0.51	8342195	<0.50	0.50	8343901
Total Iron (Fe)	ug/L	1280	235	141	1270	8342195	<10	10	8343901
Total Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	8342195	<0.20	0.20	8343901
Total Lithium (Li)	ug/L	<5.0	29.0	<5.0	<5.0	8342195	<5.0	5.0	8343901
Total Manganese (Mn)	ug/L	201	436	7.7	196	8342195	<1.0	1.0	8343901
Total Molybdenum (Mo)	ug/L	<1.0	1.5	2.9	<1.0	8342195	<1.0	1.0	8343901
Total Nickel (Ni)	ug/L	11.0	65.2	2.9	6.6	8342195	<1.0	1.0	8343901
Total Selenium (Se)	ug/L	<0.10	<0.10	<0.10	<0.10	8342195	<0.10	0.10	8343901
Total Silicon (Si)	ug/L	22700	15300	4190	23600	8342195	<100	100	8343901
Total Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	8342195	<0.020	0.020	8343901
Total Strontium (Sr)	ug/L	65.6	286	30.5	67.2	8342195	<1.0	1.0	8343901
Total Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	8342195	<0.050	0.050	8343901
Total Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	8342195	<5.0	5.0	8343901
Total Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	8342195	<5.0	5.0	8343901
Total Uranium (U)	ug/L	0.28	1.76	2.29	0.28	8342195	<0.10	0.10	8343901
Total Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	8342195	<5.0	5.0	8343901
Total Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	8342195	<5.0	5.0	8343901
RDL = Reportable Detection Limit									

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AFRICAN QUEEN MINES LTD.
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Site Location: YELLOWJACKET
Sampler Initials: LD

CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PC4715	PC4716	PC4717	PC4718		PC4719		
Sampling Date		2016/07/24 13:40	2016/07/24 12:30	2016/07/24 10:30	2016/07/24 14:20		2016/07/24 13:40		
COC Number		501115-01-01	501115-01-01	501115-02-01	501115-02-01		501115-02-01		
	UNITS	MW09-2D	MW09-3	DUP1	DUP2	QC Batch	FIELD BLANK	RDL	QC Batch
Total Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	<0.50	8342195	<0.50	0.50	8343901
Total Calcium (Ca)	mg/L	20.0	91.7	11.5	20.9	8340459	<0.050	0.050	8340459
Total Magnesium (Mg)	mg/L	19.9	113	4.60	20.8	8340459	<0.050	0.050	8340459
Total Potassium (K)	mg/L	0.656	2.89	0.676	0.633	8340459	<0.050	0.050	8340459
Total Sodium (Na)	mg/L	22.1	9.13	1.92	22.3	8340459	<0.050	0.050	8340459
Total Sulphur (S)	mg/L	8.5	78.4	<3.0	9.8	8340459	<3.0	3.0	8340459
RDL = Reportable Detection Limit									

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GENERAL COMMENTS

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8341804	WFO	Matrix Spike	Total Suspended Solids	2016/07/28		110	%	80 - 120
8341804	WFO	Spiked Blank	Total Suspended Solids	2016/07/28		98	%	80 - 120
8341804	WFO	Method Blank	Total Suspended Solids	2016/07/28	<4.0		mg/L	
8341804	WFO	RPD	Total Suspended Solids	2016/07/28	NC		%	20
8342054	CK	Matrix Spike	Total Ammonia (N)	2016/07/27		96	%	80 - 120
8342054	CK	Spiked Blank	Total Ammonia (N)	2016/07/27		100	%	80 - 120
8342054	CK	Method Blank	Total Ammonia (N)	2016/07/27	<0.0050		mg/L	
8342054	CK	RPD	Total Ammonia (N)	2016/07/27	NC		%	20
8342055	CK	Matrix Spike	Total Ammonia (N)	2016/07/27		103	%	80 - 120
8342055	CK	Spiked Blank	Total Ammonia (N)	2016/07/27		96	%	80 - 120
8342055	CK	Method Blank	Total Ammonia (N)	2016/07/27	<0.0050		mg/L	
8342055	CK	RPD	Total Ammonia (N)	2016/07/27	NC		%	20
8342187	CGP	Spiked Blank	Turbidity	2016/07/27		103	%	80 - 120
8342187	CGP	Method Blank	Turbidity	2016/07/27	<0.10		NTU	
8342187	CGP	RPD [PC4709-01]	Turbidity	2016/07/27	4.4		%	20
8342189	CK	Matrix Spike	Total Ammonia (N)	2016/07/27		NC	%	80 - 120
8342189	CK	Spiked Blank	Total Ammonia (N)	2016/07/27		97	%	80 - 120
8342189	CK	Method Blank	Total Ammonia (N)	2016/07/27	<0.0050		mg/L	
8342189	CK	RPD	Total Ammonia (N)	2016/07/27	0.52		%	20
8342195	JT3	Matrix Spike	Total Aluminum (Al)	2016/07/27		113	%	80 - 120
			Total Antimony (Sb)	2016/07/27		114	%	80 - 120
			Total Arsenic (As)	2016/07/27		112	%	80 - 120
			Total Barium (Ba)	2016/07/27		NC	%	80 - 120
			Total Beryllium (Be)	2016/07/27		110	%	80 - 120
			Total Bismuth (Bi)	2016/07/27		109	%	80 - 120
			Total Boron (B)	2016/07/27		113	%	80 - 120
			Total Cadmium (Cd)	2016/07/27		110	%	80 - 120
			Total Chromium (Cr)	2016/07/27		104	%	80 - 120
			Total Cobalt (Co)	2016/07/27		101	%	80 - 120
			Total Copper (Cu)	2016/07/27		99	%	80 - 120
			Total Iron (Fe)	2016/07/27		NC	%	80 - 120
			Total Lead (Pb)	2016/07/27		105	%	80 - 120
			Total Lithium (Li)	2016/07/27		102	%	80 - 120
			Total Manganese (Mn)	2016/07/27		NC	%	80 - 120
			Total Molybdenum (Mo)	2016/07/27		NC	%	80 - 120
			Total Nickel (Ni)	2016/07/27		102	%	80 - 120
			Total Selenium (Se)	2016/07/27		111	%	80 - 120
			Total Silver (Ag)	2016/07/27		114	%	80 - 120
			Total Strontium (Sr)	2016/07/27		NC	%	80 - 120
			Total Thallium (Tl)	2016/07/27		109	%	80 - 120
			Total Tin (Sn)	2016/07/27		107	%	80 - 120
			Total Titanium (Ti)	2016/07/27		99	%	80 - 120
			Total Uranium (U)	2016/07/27		102	%	80 - 120
			Total Vanadium (V)	2016/07/27		103	%	80 - 120
			Total Zinc (Zn)	2016/07/27		NC	%	80 - 120
8342195	JT3	Spiked Blank	Total Aluminum (Al)	2016/07/27		112	%	80 - 120
			Total Antimony (Sb)	2016/07/27		102	%	80 - 120
			Total Arsenic (As)	2016/07/27		106	%	80 - 120
			Total Barium (Ba)	2016/07/27		100	%	80 - 120
			Total Beryllium (Be)	2016/07/27		108	%	80 - 120
			Total Bismuth (Bi)	2016/07/27		98	%	80 - 120
			Total Boron (B)	2016/07/27		99	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Cadmium (Cd)	2016/07/27		104	%	80 - 120
			Total Chromium (Cr)	2016/07/27		100	%	80 - 120
			Total Cobalt (Co)	2016/07/27		96	%	80 - 120
			Total Copper (Cu)	2016/07/27		98	%	80 - 120
			Total Iron (Fe)	2016/07/27		104	%	80 - 120
			Total Lead (Pb)	2016/07/27		97	%	80 - 120
			Total Lithium (Li)	2016/07/27		110	%	80 - 120
			Total Manganese (Mn)	2016/07/27		97	%	80 - 120
			Total Molybdenum (Mo)	2016/07/27		92	%	80 - 120
			Total Nickel (Ni)	2016/07/27		99	%	80 - 120
			Total Selenium (Se)	2016/07/27		106	%	80 - 120
			Total Silver (Ag)	2016/07/27		98	%	80 - 120
			Total Strontium (Sr)	2016/07/27		99	%	80 - 120
			Total Thallium (Tl)	2016/07/27		93	%	80 - 120
			Total Tin (Sn)	2016/07/27		95	%	80 - 120
			Total Titanium (Ti)	2016/07/27		108	%	80 - 120
			Total Uranium (U)	2016/07/27		93	%	80 - 120
			Total Vanadium (V)	2016/07/27		95	%	80 - 120
			Total Zinc (Zn)	2016/07/27		105	%	80 - 120
8342195	JT3	Method Blank	Total Aluminum (Al)	2016/07/27	3.0, RDL=3.0		ug/L	
			Total Antimony (Sb)	2016/07/27	<0.50		ug/L	
			Total Arsenic (As)	2016/07/27	<0.10		ug/L	
			Total Barium (Ba)	2016/07/27	<1.0		ug/L	
			Total Beryllium (Be)	2016/07/27	<0.10		ug/L	
			Total Bismuth (Bi)	2016/07/27	<1.0		ug/L	
			Total Boron (B)	2016/07/27	<50		ug/L	
			Total Cadmium (Cd)	2016/07/27	<0.010		ug/L	
			Total Chromium (Cr)	2016/07/27	<1.0		ug/L	
			Total Cobalt (Co)	2016/07/27	<0.50		ug/L	
			Total Copper (Cu)	2016/07/27	<0.50		ug/L	
			Total Iron (Fe)	2016/07/27	<10		ug/L	
			Total Lead (Pb)	2016/07/27	<0.20		ug/L	
			Total Lithium (Li)	2016/07/27	<5.0		ug/L	
			Total Manganese (Mn)	2016/07/27	<1.0		ug/L	
			Total Molybdenum (Mo)	2016/07/27	<1.0		ug/L	
			Total Nickel (Ni)	2016/07/27	<1.0		ug/L	
			Total Selenium (Se)	2016/07/27	<0.10		ug/L	
			Total Silicon (Si)	2016/07/27	<100		ug/L	
			Total Silver (Ag)	2016/07/27	<0.020		ug/L	
			Total Strontium (Sr)	2016/07/27	<1.0		ug/L	
			Total Thallium (Tl)	2016/07/27	<0.050		ug/L	
			Total Tin (Sn)	2016/07/27	<5.0		ug/L	
			Total Titanium (Ti)	2016/07/27	<5.0		ug/L	
			Total Uranium (U)	2016/07/27	<0.10		ug/L	
			Total Vanadium (V)	2016/07/27	<5.0		ug/L	
			Total Zinc (Zn)	2016/07/27	<5.0		ug/L	
			Total Zirconium (Zr)	2016/07/27	<0.50		ug/L	
8342195	JT3	RPD	Total Aluminum (Al)	2016/07/27	NC		%	20
			Total Antimony (Sb)	2016/07/27	NC		%	20
			Total Arsenic (As)	2016/07/27	4.2		%	20
			Total Barium (Ba)	2016/07/27	0.70		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Beryllium (Be)	2016/07/27	NC		%	20
			Total Bismuth (Bi)	2016/07/27	NC		%	20
			Total Boron (B)	2016/07/27	NC		%	20
			Total Cadmium (Cd)	2016/07/27	NC		%	20
			Total Chromium (Cr)	2016/07/27	NC		%	20
			Total Cobalt (Co)	2016/07/27	NC		%	20
			Total Copper (Cu)	2016/07/27	NC		%	20
			Total Iron (Fe)	2016/07/27	3.1		%	20
			Total Lead (Pb)	2016/07/27	NC		%	20
			Total Lithium (Li)	2016/07/27	NC		%	20
			Total Manganese (Mn)	2016/07/27	0.88		%	20
			Total Molybdenum (Mo)	2016/07/27	NC		%	20
			Total Nickel (Ni)	2016/07/27	NC		%	20
			Total Selenium (Se)	2016/07/27	NC		%	20
			Total Silicon (Si)	2016/07/27	2.7		%	20
			Total Silver (Ag)	2016/07/27	NC		%	20
			Total Strontium (Sr)	2016/07/27	3.2		%	20
			Total Thallium (Tl)	2016/07/27	NC		%	20
			Total Tin (Sn)	2016/07/27	NC		%	20
			Total Titanium (Ti)	2016/07/27	NC		%	20
			Total Uranium (U)	2016/07/27	NC		%	20
			Total Vanadium (V)	2016/07/27	NC		%	20
			Total Zinc (Zn)	2016/07/27	NC		%	20
			Total Zirconium (Zr)	2016/07/27	NC		%	20
8342393	IC4	Matrix Spike [PC4713-01]	Orthophosphate (P)	2016/07/27		87	%	80 - 120
8342393	IC4	Spiked Blank	Orthophosphate (P)	2016/07/27		108	%	80 - 120
8342393	IC4	Method Blank	Orthophosphate (P)	2016/07/27	<0.0050		mg/L	
8342393	IC4	RPD [PC4713-01]	Orthophosphate (P)	2016/07/27	NC		%	20
8342556	MM3	Matrix Spike	Alkalinity (Total as CaCO3)	2016/07/27		92	%	80 - 120
8342556	MM3	Spiked Blank	Alkalinity (Total as CaCO3)	2016/07/27		91	%	80 - 120
8342556	MM3	Method Blank	Alkalinity (Total as CaCO3)	2016/07/27	<0.50		mg/L	
			Alkalinity (PP as CaCO3)	2016/07/27	<0.50		mg/L	
			Bicarbonate (HCO3)	2016/07/27	<0.50		mg/L	
			Carbonate (CO3)	2016/07/27	<0.50		mg/L	
			Hydroxide (OH)	2016/07/27	<0.50		mg/L	
8342556	MM3	RPD	Alkalinity (Total as CaCO3)	2016/07/27	13		%	20
			Alkalinity (PP as CaCO3)	2016/07/27	NC		%	20
			Bicarbonate (HCO3)	2016/07/27	13		%	20
			Carbonate (CO3)	2016/07/27	NC		%	20
			Hydroxide (OH)	2016/07/27	NC		%	20
8342563	MM3	Spiked Blank	Conductivity	2016/07/27		100	%	80 - 120
8342563	MM3	Method Blank	Conductivity	2016/07/27	1.2, RDL=1.0		uS/cm	
8342563	MM3	RPD	Conductivity	2016/07/27	0.31		%	20
8342564	MM3	Spiked Blank	pH	2016/07/27		101	%	97 - 103
8342564	MM3	RPD	pH	2016/07/27	0.29		%	N/A
8342567	MM3	Spiked Blank	pH	2016/07/27		102	%	97 - 103
8342571	MM3	Spiked Blank	Conductivity	2016/07/27		100	%	80 - 120
8342571	MM3	Method Blank	Conductivity	2016/07/27	<1.0		uS/cm	
8342572	MM3	Spiked Blank	Alkalinity (Total as CaCO3)	2016/07/27		92	%	80 - 120
8342572	MM3	Method Blank	Alkalinity (Total as CaCO3)	2016/07/27	<0.50		mg/L	
			Alkalinity (PP as CaCO3)	2016/07/27	<0.50		mg/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Bicarbonate (HCO3)	2016/07/27	<0.50		mg/L	
			Carbonate (CO3)	2016/07/27	<0.50		mg/L	
			Hydroxide (OH)	2016/07/27	<0.50		mg/L	
8342786	MM3	Spiked Blank	pH	2016/07/27		102	%	97 - 103
8342786	MM3	RPD	pH	2016/07/28	0.15		%	N/A
8342799	MM3	Spiked Blank	Conductivity	2016/07/27		100	%	80 - 120
8342799	MM3	Method Blank	Conductivity	2016/07/27	<1.0		uS/cm	
8342799	MM3	RPD	Conductivity	2016/07/28	3.1		%	20
8342800	MM3	Matrix Spike	Alkalinity (Total as CaCO3)	2016/07/28		98	%	80 - 120
8342800	MM3	Spiked Blank	Alkalinity (Total as CaCO3)	2016/07/27		92	%	80 - 120
8342800	MM3	Method Blank	Alkalinity (Total as CaCO3)	2016/07/27	<0.50		mg/L	
			Alkalinity (PP as CaCO3)	2016/07/27	<0.50		mg/L	
			Bicarbonate (HCO3)	2016/07/27	<0.50		mg/L	
			Carbonate (CO3)	2016/07/27	<0.50		mg/L	
			Hydroxide (OH)	2016/07/27	<0.50		mg/L	
8342800	MM3	RPD	Alkalinity (Total as CaCO3)	2016/07/28	6.7		%	20
			Alkalinity (PP as CaCO3)	2016/07/28	NC		%	20
			Bicarbonate (HCO3)	2016/07/28	6.7		%	20
			Carbonate (CO3)	2016/07/28	NC		%	20
			Hydroxide (OH)	2016/07/28	NC		%	20
8343442	BB3	Matrix Spike	Dissolved Chloride (Cl)	2016/07/27		97	%	80 - 120
8343442	BB3	Spiked Blank	Dissolved Chloride (Cl)	2016/07/27		101	%	80 - 120
8343442	BB3	Method Blank	Dissolved Chloride (Cl)	2016/07/27	0.50, RDL=0.50		mg/L	
8343442	BB3	RPD	Dissolved Chloride (Cl)	2016/07/27	1.0		%	20
8343446	BB3	Matrix Spike	Dissolved Sulphate (SO4)	2016/07/27		92	%	80 - 120
8343446	BB3	Spiked Blank	Dissolved Sulphate (SO4)	2016/07/27		96	%	80 - 120
8343446	BB3	Method Blank	Dissolved Sulphate (SO4)	2016/07/27	0.71, RDL=0.50		mg/L	
8343446	BB3	RPD	Dissolved Sulphate (SO4)	2016/07/27	1.4		%	20
8343504	IW1	Matrix Spike	Nitrate plus Nitrite (N)	2016/07/27		105	%	80 - 120
8343504	IW1	Spiked Blank	Nitrate plus Nitrite (N)	2016/07/27		105	%	80 - 120
8343504	IW1	Method Blank	Nitrate plus Nitrite (N)	2016/07/27	<0.020		mg/L	
8343504	IW1	RPD	Nitrate plus Nitrite (N)	2016/07/27	NC		%	25
8343515	IW1	Matrix Spike	Nitrite (N)	2016/07/27		92	%	80 - 120
8343515	IW1	Spiked Blank	Nitrite (N)	2016/07/27		98	%	80 - 120
8343515	IW1	Method Blank	Nitrite (N)	2016/07/27	<0.0050		mg/L	
8343515	IW1	RPD	Nitrite (N)	2016/07/27	NC		%	20
8343739	GS2	Matrix Spike [PC4719-03]	Dissolved Aluminum (Al)	2016/07/28		105	%	80 - 120
			Dissolved Antimony (Sb)	2016/07/28		102	%	80 - 120
			Dissolved Arsenic (As)	2016/07/28		104	%	80 - 120
			Dissolved Barium (Ba)	2016/07/28		99	%	80 - 120
			Dissolved Beryllium (Be)	2016/07/28		109	%	80 - 120
			Dissolved Bismuth (Bi)	2016/07/28		104	%	80 - 120
			Dissolved Boron (B)	2016/07/28		105	%	80 - 120
			Dissolved Cadmium (Cd)	2016/07/28		105	%	80 - 120
			Dissolved Chromium (Cr)	2016/07/28		97	%	80 - 120
			Dissolved Cobalt (Co)	2016/07/28		98	%	80 - 120
			Dissolved Copper (Cu)	2016/07/28		98	%	80 - 120
			Dissolved Iron (Fe)	2016/07/28		107	%	80 - 120
			Dissolved Lead (Pb)	2016/07/28		98	%	80 - 120
			Dissolved Lithium (Li)	2016/07/28		104	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Manganese (Mn)	2016/07/28		101	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/07/28		109	%	80 - 120
			Dissolved Nickel (Ni)	2016/07/28		101	%	80 - 120
			Dissolved Selenium (Se)	2016/07/28		108	%	80 - 120
			Dissolved Silver (Ag)	2016/07/28		109	%	80 - 120
			Dissolved Strontium (Sr)	2016/07/28		102	%	80 - 120
			Dissolved Thallium (Tl)	2016/07/28		103	%	80 - 120
			Dissolved Tin (Sn)	2016/07/28		100	%	80 - 120
			Dissolved Titanium (Ti)	2016/07/28		97	%	80 - 120
			Dissolved Uranium (U)	2016/07/28		97	%	80 - 120
			Dissolved Vanadium (V)	2016/07/28		94	%	80 - 120
			Dissolved Zinc (Zn)	2016/07/28		117	%	80 - 120
8343739	GS2	Spiked Blank	Dissolved Aluminum (Al)	2016/07/28		111	%	80 - 120
			Dissolved Antimony (Sb)	2016/07/28		102	%	80 - 120
			Dissolved Arsenic (As)	2016/07/28		104	%	80 - 120
			Dissolved Barium (Ba)	2016/07/28		98	%	80 - 120
			Dissolved Beryllium (Be)	2016/07/28		106	%	80 - 120
			Dissolved Bismuth (Bi)	2016/07/28		102	%	80 - 120
			Dissolved Boron (B)	2016/07/28		108	%	80 - 120
			Dissolved Cadmium (Cd)	2016/07/28		102	%	80 - 120
			Dissolved Chromium (Cr)	2016/07/28		100	%	80 - 120
			Dissolved Cobalt (Co)	2016/07/28		101	%	80 - 120
			Dissolved Copper (Cu)	2016/07/28		99	%	80 - 120
			Dissolved Iron (Fe)	2016/07/28		107	%	80 - 120
			Dissolved Lead (Pb)	2016/07/28		98	%	80 - 120
			Dissolved Lithium (Li)	2016/07/28		106	%	80 - 120
			Dissolved Manganese (Mn)	2016/07/28		100	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/07/28		104	%	80 - 120
			Dissolved Nickel (Ni)	2016/07/28		103	%	80 - 120
			Dissolved Selenium (Se)	2016/07/28		105	%	80 - 120
			Dissolved Silver (Ag)	2016/07/28		106	%	80 - 120
			Dissolved Strontium (Sr)	2016/07/28		99	%	80 - 120
			Dissolved Thallium (Tl)	2016/07/28		101	%	80 - 120
			Dissolved Tin (Sn)	2016/07/28		102	%	80 - 120
			Dissolved Titanium (Ti)	2016/07/28		97	%	80 - 120
			Dissolved Uranium (U)	2016/07/28		96	%	80 - 120
			Dissolved Vanadium (V)	2016/07/28		98	%	80 - 120
			Dissolved Zinc (Zn)	2016/07/28		100	%	80 - 120
8343739	GS2	Method Blank	Dissolved Aluminum (Al)	2016/07/28	<3.0		ug/L	
			Dissolved Antimony (Sb)	2016/07/28	<0.50		ug/L	
			Dissolved Arsenic (As)	2016/07/28	<0.10		ug/L	
			Dissolved Barium (Ba)	2016/07/28	<1.0		ug/L	
			Dissolved Beryllium (Be)	2016/07/28	<0.10		ug/L	
			Dissolved Bismuth (Bi)	2016/07/28	<1.0		ug/L	
			Dissolved Boron (B)	2016/07/28	<50		ug/L	
			Dissolved Cadmium (Cd)	2016/07/28	<0.010		ug/L	
			Dissolved Chromium (Cr)	2016/07/28	<1.0		ug/L	
			Dissolved Cobalt (Co)	2016/07/28	<0.50		ug/L	
			Dissolved Copper (Cu)	2016/07/28	<0.20		ug/L	
			Dissolved Iron (Fe)	2016/07/28	<5.0		ug/L	
			Dissolved Lead (Pb)	2016/07/28	<0.20		ug/L	
			Dissolved Lithium (Li)	2016/07/28	<5.0		ug/L	

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Maxxam Job #: B661421
Report Date: 2016/08/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Site Location: YELLOWJACKET
Sampler Initials: LD

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Manganese (Mn)	2016/07/28	<1.0		ug/L	
			Dissolved Molybdenum (Mo)	2016/07/28	<1.0		ug/L	
			Dissolved Nickel (Ni)	2016/07/28	<1.0		ug/L	
			Dissolved Selenium (Se)	2016/07/28	<0.10		ug/L	
			Dissolved Silicon (Si)	2016/07/28	<100		ug/L	
			Dissolved Silver (Ag)	2016/07/28	<0.020		ug/L	
			Dissolved Strontium (Sr)	2016/07/28	<1.0		ug/L	
			Dissolved Thallium (Tl)	2016/07/28	<0.050		ug/L	
			Dissolved Tin (Sn)	2016/07/28	<5.0		ug/L	
			Dissolved Titanium (Ti)	2016/07/28	<5.0		ug/L	
			Dissolved Uranium (U)	2016/07/28	<0.10		ug/L	
			Dissolved Vanadium (V)	2016/07/28	<5.0		ug/L	
			Dissolved Zinc (Zn)	2016/07/28	<5.0		ug/L	
			Dissolved Zirconium (Zr)	2016/07/28	<0.50		ug/L	
8343739	GS2	RPD [PC4719-03]	Dissolved Aluminum (Al)	2016/07/28	NC		%	20
			Dissolved Antimony (Sb)	2016/07/28	NC		%	20
			Dissolved Arsenic (As)	2016/07/28	NC		%	20
			Dissolved Barium (Ba)	2016/07/28	NC		%	20
			Dissolved Beryllium (Be)	2016/07/28	NC		%	20
			Dissolved Bismuth (Bi)	2016/07/28	NC		%	20
			Dissolved Boron (B)	2016/07/28	NC		%	20
			Dissolved Cadmium (Cd)	2016/07/28	NC		%	20
			Dissolved Chromium (Cr)	2016/07/28	NC		%	20
			Dissolved Cobalt (Co)	2016/07/28	NC		%	20
			Dissolved Copper (Cu)	2016/07/28	NC		%	20
			Dissolved Iron (Fe)	2016/07/28	NC		%	20
			Dissolved Lead (Pb)	2016/07/28	NC		%	20
			Dissolved Lithium (Li)	2016/07/28	NC		%	20
			Dissolved Manganese (Mn)	2016/07/28	NC		%	20
			Dissolved Molybdenum (Mo)	2016/07/28	NC		%	20
			Dissolved Nickel (Ni)	2016/07/28	NC		%	20
			Dissolved Selenium (Se)	2016/07/28	NC		%	20
			Dissolved Silicon (Si)	2016/07/28	NC		%	20
			Dissolved Silver (Ag)	2016/07/28	NC		%	20
			Dissolved Strontium (Sr)	2016/07/28	NC		%	20
			Dissolved Thallium (Tl)	2016/07/28	NC		%	20
			Dissolved Tin (Sn)	2016/07/28	NC		%	20
			Dissolved Titanium (Ti)	2016/07/28	NC		%	20
			Dissolved Uranium (U)	2016/07/28	NC		%	20
			Dissolved Vanadium (V)	2016/07/28	NC		%	20
			Dissolved Zinc (Zn)	2016/07/28	NC		%	20
			Dissolved Zirconium (Zr)	2016/07/28	NC		%	20
8343784	DC6	Matrix Spike [PC4719-07]	Dissolved Phosphorus (P)	2016/07/28		95	%	80 - 120
8343784	DC6	Spiked Blank	Dissolved Phosphorus (P)	2016/07/28		108	%	80 - 120
8343784	DC6	Method Blank	Dissolved Phosphorus (P)	2016/07/28	<0.0050		mg/L	
8343784	DC6	RPD [PC4719-07]	Dissolved Phosphorus (P)	2016/07/28	NC		%	20
8343901	JT3	Matrix Spike	Total Aluminum (Al)	2016/07/29		109	%	80 - 120
			Total Antimony (Sb)	2016/07/29		104	%	80 - 120
			Total Arsenic (As)	2016/07/29		109	%	80 - 120
			Total Barium (Ba)	2016/07/29		103	%	80 - 120
			Total Beryllium (Be)	2016/07/29		106	%	80 - 120
			Total Bismuth (Bi)	2016/07/29		102	%	80 - 120

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AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Site Location: YELLOWJACKET
Sampler Initials: LD

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Boron (B)	2016/07/29		98	%	80 - 120
			Total Cadmium (Cd)	2016/07/29		108	%	80 - 120
			Total Chromium (Cr)	2016/07/29		100	%	80 - 120
			Total Cobalt (Co)	2016/07/29		98	%	80 - 120
			Total Copper (Cu)	2016/07/29		99	%	80 - 120
			Total Iron (Fe)	2016/07/29		105	%	80 - 120
			Total Lead (Pb)	2016/07/29		101	%	80 - 120
			Total Lithium (Li)	2016/07/29		100	%	80 - 120
			Total Manganese (Mn)	2016/07/29		102	%	80 - 120
			Total Molybdenum (Mo)	2016/07/29		101	%	80 - 120
			Total Nickel (Ni)	2016/07/29		99	%	80 - 120
			Total Selenium (Se)	2016/07/29		110	%	80 - 120
			Total Silver (Ag)	2016/07/29		103	%	80 - 120
			Total Strontium (Sr)	2016/07/29		97	%	80 - 120
			Total Thallium (Tl)	2016/07/29		94	%	80 - 120
			Total Tin (Sn)	2016/07/29		105	%	80 - 120
			Total Titanium (Ti)	2016/07/29		107	%	80 - 120
			Total Uranium (U)	2016/07/29		96	%	80 - 120
			Total Vanadium (V)	2016/07/29		99	%	80 - 120
			Total Zinc (Zn)	2016/07/29		116	%	80 - 120
8343901	JT3	Spiked Blank	Total Aluminum (Al)	2016/07/29		107	%	80 - 120
			Total Antimony (Sb)	2016/07/29		102	%	80 - 120
			Total Arsenic (As)	2016/07/29		105	%	80 - 120
			Total Barium (Ba)	2016/07/29		105	%	80 - 120
			Total Beryllium (Be)	2016/07/29		102	%	80 - 120
			Total Bismuth (Bi)	2016/07/29		102	%	80 - 120
			Total Boron (B)	2016/07/29		105	%	80 - 120
			Total Cadmium (Cd)	2016/07/29		103	%	80 - 120
			Total Chromium (Cr)	2016/07/29		100	%	80 - 120
			Total Cobalt (Co)	2016/07/29		98	%	80 - 120
			Total Copper (Cu)	2016/07/29		97	%	80 - 120
			Total Iron (Fe)	2016/07/29		106	%	80 - 120
			Total Lead (Pb)	2016/07/29		101	%	80 - 120
			Total Lithium (Li)	2016/07/29		104	%	80 - 120
			Total Manganese (Mn)	2016/07/29		101	%	80 - 120
			Total Molybdenum (Mo)	2016/07/29		102	%	80 - 120
			Total Nickel (Ni)	2016/07/29		98	%	80 - 120
			Total Selenium (Se)	2016/07/29		106	%	80 - 120
			Total Silver (Ag)	2016/07/29		105	%	80 - 120
			Total Strontium (Sr)	2016/07/29		100	%	80 - 120
			Total Thallium (Tl)	2016/07/29		98	%	80 - 120
			Total Tin (Sn)	2016/07/29		103	%	80 - 120
			Total Titanium (Ti)	2016/07/29		99	%	80 - 120
			Total Uranium (U)	2016/07/29		98	%	80 - 120
			Total Vanadium (V)	2016/07/29		103	%	80 - 120
			Total Zinc (Zn)	2016/07/29		101	%	80 - 120
8343901	JT3	Method Blank	Total Aluminum (Al)	2016/07/29	<3.0		ug/L	
			Total Antimony (Sb)	2016/07/29	<0.50		ug/L	
			Total Arsenic (As)	2016/07/29	<0.10		ug/L	
			Total Barium (Ba)	2016/07/29	<1.0		ug/L	
			Total Beryllium (Be)	2016/07/29	<0.10		ug/L	
			Total Bismuth (Bi)	2016/07/29	<1.0		ug/L	

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Maxxam Job #: B661421
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AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Site Location: YELLOWJACKET
Sampler Initials: LD

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Boron (B)	2016/07/29	<50		ug/L	
			Total Cadmium (Cd)	2016/07/29	<0.010		ug/L	
			Total Chromium (Cr)	2016/07/29	<1.0		ug/L	
			Total Cobalt (Co)	2016/07/29	<0.50		ug/L	
			Total Copper (Cu)	2016/07/29	<0.50		ug/L	
			Total Iron (Fe)	2016/07/29	<10		ug/L	
			Total Lead (Pb)	2016/07/29	<0.20		ug/L	
			Total Lithium (Li)	2016/07/29	<5.0		ug/L	
			Total Manganese (Mn)	2016/07/29	<1.0		ug/L	
			Total Molybdenum (Mo)	2016/07/29	<1.0		ug/L	
			Total Nickel (Ni)	2016/07/29	<1.0		ug/L	
			Total Selenium (Se)	2016/07/29	<0.10		ug/L	
			Total Silicon (Si)	2016/07/29	<100		ug/L	
			Total Silver (Ag)	2016/07/29	<0.020		ug/L	
			Total Strontium (Sr)	2016/07/29	<1.0		ug/L	
			Total Thallium (Tl)	2016/07/29	<0.050		ug/L	
			Total Tin (Sn)	2016/07/29	<5.0		ug/L	
			Total Titanium (Ti)	2016/07/29	<5.0		ug/L	
			Total Uranium (U)	2016/07/29	<0.10		ug/L	
			Total Vanadium (V)	2016/07/29	<5.0		ug/L	
			Total Zinc (Zn)	2016/07/29	<5.0		ug/L	
			Total Zirconium (Zr)	2016/07/29	<0.50		ug/L	
8343901	JT3	RPD	Total Aluminum (Al)	2016/07/29	NC		%	20
			Total Antimony (Sb)	2016/07/29	NC		%	20
			Total Arsenic (As)	2016/07/29	NC		%	20
			Total Barium (Ba)	2016/07/29	NC		%	20
			Total Beryllium (Be)	2016/07/29	NC		%	20
			Total Bismuth (Bi)	2016/07/29	NC		%	20
			Total Boron (B)	2016/07/29	NC		%	20
			Total Cadmium (Cd)	2016/07/29	NC		%	20
			Total Chromium (Cr)	2016/07/29	NC		%	20
			Total Cobalt (Co)	2016/07/29	NC		%	20
			Total Copper (Cu)	2016/07/29	NC		%	20
			Total Iron (Fe)	2016/07/29	NC		%	20
			Total Lead (Pb)	2016/07/29	NC		%	20
			Total Lithium (Li)	2016/07/29	NC		%	20
			Total Manganese (Mn)	2016/07/29	NC		%	20
			Total Molybdenum (Mo)	2016/07/29	NC		%	20
			Total Nickel (Ni)	2016/07/29	NC		%	20
			Total Selenium (Se)	2016/07/29	NC		%	20
			Total Silicon (Si)	2016/07/29	NC		%	20
			Total Silver (Ag)	2016/07/29	NC		%	20
			Total Strontium (Sr)	2016/07/29	NC		%	20
			Total Thallium (Tl)	2016/07/29	NC		%	20
			Total Tin (Sn)	2016/07/29	NC		%	20
			Total Titanium (Ti)	2016/07/29	NC		%	20
			Total Uranium (U)	2016/07/29	NC		%	20
			Total Vanadium (V)	2016/07/29	NC		%	20
			Total Zinc (Zn)	2016/07/29	NC		%	20
			Total Zirconium (Zr)	2016/07/29	NC		%	20
8349250	EL2	Matrix Spike [PC4709-05]	Dissolved Mercury (Hg)	2016/08/03		90	%	80 - 120
8349250	EL2	Spiked Blank	Dissolved Mercury (Hg)	2016/08/03		104	%	80 - 120

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AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Site Location: YELLOWJACKET
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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8349250	EL2	Method Blank	Dissolved Mercury (Hg)	2016/08/03	<0.010		ug/L	
8349250	EL2	RPD [PC4709-05]	Dissolved Mercury (Hg)	2016/08/03	NC		%	20
8349344	EL2	Matrix Spike [PC4709-04]	Total Mercury (Hg)	2016/08/03		93	%	80 - 120
8349344	EL2	Spiked Blank	Total Mercury (Hg)	2016/08/03		107	%	80 - 120
8349344	EL2	Method Blank	Total Mercury (Hg)	2016/08/03	<0.010		ug/L	
8349344	EL2	RPD [PC4709-04]	Total Mercury (Hg)	2016/08/03	NC		%	20
8350400	BB3	Spiked Blank	Dissolved Sulphate (SO4)	2016/08/03		92	%	80 - 120
8350400	BB3	Method Blank	Dissolved Sulphate (SO4)	2016/08/03	<0.50		mg/L	
8350400	BB3	RPD	Dissolved Sulphate (SO4)	2016/08/03	1.3		%	20
8357860	BB3	Matrix Spike [PC4709-01]	Fluoride (F)	2016/08/10		NC	%	80 - 120
8357860	BB3	Spiked Blank	Fluoride (F)	2016/08/10		100	%	80 - 120
8357860	BB3	Method Blank	Fluoride (F)	2016/08/10	0.012, RDL=0.010		mg/L	
8357860	BB3	RPD [PC4712-01]	Fluoride (F)	2016/08/10	0		%	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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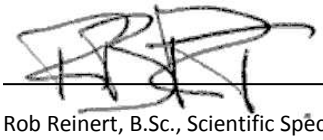
AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Site Location: YELLOWJACKET
Sampler Initials: LD

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Rob Reinert, B.Sc., Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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B661421_COC

C#501115-01-01

Veronica De Guzman

INVOICE TO:		Report Information		Project Information	
Company Name	#12411 AFRICAN QUEEN MINES LTD.	Company Name		Quotation #	B61210
Contact Name	Linda Dandy	Contact Name		P.O. #	
Address	1153 56TH STREET BOX 19040 DELTA BC V4L 2P8	Address		Project #	VJ
Phone	(604) 240-7676 x Fax:	Phone	Fax:	Project Name	YELLOWJACKET
Email	lindadandy@telus.net	Email		Site #	
				Sampled By	L - DANDY

Regulatory Criteria

Special Instructions

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT ☑
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number: _____ *(call lab for #)* ☐

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	EC, pH, ALK	Cl, SO4, N+N, TURB	TSS	NH4	TOTAL D. PHOS	ORTHOPHOSPHATE	TOTAL METALS W/ CV Hg.	DISSOLVED METALS WITH CV Hg.	# of Bottles	Comments
1	SID#160442	PC-1	JULY 24/16	1005		N	Y									7	
2	SID#160443	PC-2	"	1810		N											
3	SID#160444	PC-5	"	0850		N											
4	SID#160445	PC-6	"	1615		N											
5	SID#160446	BGC06-02	/														
6	SID#160447	BGC06-04	/														
7	SID#160448	MW09-1D	JULY 24/16	1545													
8	SID#160449	MW09-2S	"	1405													
9	SID#160450	MW06-2D 09	"	1340													This should read MW09-2D. NOTE: The bottles are labelled MW06-3 + should be MW09-3
10	SID#160451	MW06-3 09	"	1230													

* * RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
L. DANDY	25/07/16	10:15	[illegible]	2016/07/26	14:35	

Lab Use Only

Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
☐	4.2 / 3.2 / 3	☐ Yes ☐ No

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Maxxam Yellow: Client

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B661421_COC

CR901115-03-01

Veronica De Guzman

INVOICE TO:		Report Information		Project Information	
Company Name	#12411 AFRICAN QUEEN MINES LTD.	Company Name		Quotation #	B61210
Contact Name	Linda Dandy	Contact Name		P.O. #	
Address	1153 56TH STREET BOX 19040	Address		Project #	YJ
	DELTA BC V4L 2P8			Project Name	YELLOWJACKET
Phone	(604) 240-7676 x Fax:	Phone	Fax:	Site #	
Email	lindadandy@telus.net	Email		Sampled By	

Regulatory Criteria

Special Instructions

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam

Turnaround Time (TAT) Required

Please give advance notice for rush projects

Regular (Standard) TAT: ☑
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number: _____ ☐
(call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	EC, pH, ALK	Cl, SO4, N+N, TURB	TSS	NH4	TOTAL D. PHOS	ORTHOPHOSPHATE	TOTAL METALS W/ CV Hg.	DISSOLVED METALS WITH CV Hg.			# of Bottles	Comments
1	SID#160452	MW09-4D	✓			N	Y	✓	✓	✓	✓	✓	✓	✓	✓			7	
2	SID#160453	MW09-1S	✓			↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			↓	
3	SID#160454	MW09-4S	✓																
4	SID#160455	DUP 1	JULY 24/16	1030															
5	SID#160456	DUP 2	"	1420															
6	SID#160457	FIELD BLANK	"	1340		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓			↓	
7																			
8																			
9																			
10																			

~~RECEIVED IN WHITEHORSE~~
BY: Sylvia @ 12:20
2016 -07- 25
TEMP: 5 / 4 / 5 → 1 (cooler #)
4 4 4 → 2

* * RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
			Laurel Arthur	2016/07/26	14:35		☐	4 2 2 / 3 2 3	☐ Yes ☐ No

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Maxxam Yellow: Client

Maxxam Analytics International Corporation o/a Maxxam Analytics

Appendix VII

Maxxam Laboratory

Certificates of Analysis for October 2016

Your Project #: YJ
Your C.O.C. #: 506921-01-01

Attention:Linda Dandy

AFRICAN QUEEN MINES LTD.
1153 56TH STREET
BOX 19040
DELTA, BC
CANADA V4L 2P8

Report Date: 2016/10/19
Report #: R2285715
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B687153
Received: 2016/10/03, 13:30

Sample Matrix: Water
Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	10	2016/10/05	2016/10/05	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	10	N/A	2016/10/06	BBY6SOP-00011	SM 22 4500-Cl- E m
Conductance - water	10	N/A	2016/10/05	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Mining Clients	10	N/A	2016/10/06	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3)	6	N/A	2016/10/06	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3)	4	N/A	2016/10/11	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	10	N/A	2016/10/07	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAF	10	N/A	2016/10/11	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAF	10	2016/10/11	2016/10/11	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	10	N/A	2016/10/07	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	10	N/A	2016/10/06	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	6	2016/10/04	2016/10/06	BBY7SOP-00002	EPA 6020A R1 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	4	2016/10/04	2016/10/11	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (total)	6	2016/10/05	2016/10/05	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Elements by CRC ICPMS (total)	4	2016/10/05	2016/10/08	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Ammonia-N (Preserved)	9	N/A	2016/10/06	BBY6SOP-00009	SM 22 4500-NH3- G m
Ammonia-N (Preserved)	1	N/A	2016/10/19	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N)	10	N/A	2016/10/05	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	10	N/A	2016/10/05	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	10	N/A	2016/10/06	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	7	N/A	2016/10/04	BBY7 WI-00004	BCMOE Reqs 08/14
Filter and HNO3 Preserve for Metals	2	N/A	2016/10/05	BBY7 WI-00004	BCMOE Reqs 08/14
Filter and HNO3 Preserve for Metals	1	N/A	2016/10/06	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	10	N/A	2016/10/05	BBY6SOP-00026	SM 22 4500-H+ B m
Orthophosphate by Konelab	9	N/A	2016/10/05	BBY6SOP-00013	SM 22 4500-P E m
Orthophosphate by Konelab	1	N/A	2016/10/12	BBY6SOP-00013	SM 22 4500-P E m
Sulphate by Automated Colourimetry	9	N/A	2016/10/06	BBY6SOP-00017	SM 22 4500-SO42- E m
Sulphate by Automated Colourimetry	1	N/A	2016/10/11	BBY6SOP-00017	SM 22 4500-SO42- E m
Phosphorus-P (Total, dissolved) - FF/FP	7	2016/10/06	2016/10/06	BBY6SOP-00013	SM 22 4500-P E m

Your Project #: YJ
Your C.O.C. #: 506921-01-01

Attention:Linda Dandy

AFRICAN QUEEN MINES LTD.
1153 56TH STREET
BOX 19040
DELTA, BC
CANADA V4L 2P8

Report Date: 2016/10/19
Report #: R2285715
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B687153
Received: 2016/10/03, 13:30

Sample Matrix: Water
Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Phosphorus-P (Total, dissolved) - FF/FP	1	2016/10/12	2016/10/12	BBY6SOP-00013	SM 22 4500-P E m
Phosphorus-P (LL Tot, dissolved) - UF/UP	2	2016/10/05	2016/10/05	BBY6SOP-00013	SM 22 4500-P E m
Total Suspended Solids	5	2016/10/05	2016/10/06	BBY6SOP-00034	SM 22 2540 D
Total Suspended Solids	5	2016/10/06	2016/10/07	BBY6SOP-00034	SM 22 2540 D
Turbidity	10	N/A	2016/10/04	BBY6SOP-00027	SM 22 2130 B m

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Veronica De Guzman, Project Manager
Email: VDeGuzman@maxxam.ca
Phone# (604) 734 7276

==========

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B687153
Report Date: 2016/10/19

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		PR4784		PR4785		PR4786		PR4787		
Sampling Date		2016/10/02 15:20		2016/10/01 13:00		2016/10/01 13:50		2016/10/02 14:10		
COC Number		506921-01-01		506921-01-01		506921-01-01		506921-01-01		
	UNITS	MW09-01D	QC Batch	MW09-2D	QC Batch	MW09-2S	QC Batch	MW09-3	RDL	QC Batch
Misc. Inorganics										
Fluoride (F)	mg/L	0.180	8422875	0.120	8422875	0.130	8422875	0.140	0.010	8422875
ANIONS										
Nitrite (N)	mg/L	<0.0050	8424500	<0.0050 (1)	8424500	<0.0050 (1)	8424500	<0.0050	0.0050	8424500
Calculated Parameters										
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	ONSITE	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	<0.020	8421520	0.022	8421520	0.072	8421520	<0.020	0.020	8421520
Misc. Inorganics										
Alkalinity (Total as CaCO3)	mg/L	869	8423400	143	8423400	47.9	8423400	442	0.50	8423400
Alkalinity (PP as CaCO3)	mg/L	<0.50	8423400	<0.50	8423400	<0.50	8423400	<0.50	0.50	8423400
Bicarbonate (HCO3)	mg/L	1060	8423400	175	8423400	58.5	8423400	540	0.50	8423400
Carbonate (CO3)	mg/L	<0.50	8423400	<0.50	8423400	<0.50	8423400	<0.50	0.50	8423400
Hydroxide (OH)	mg/L	<0.50	8423400	<0.50	8423400	<0.50	8423400	<0.50	0.50	8423400
Anions										
Dissolved Sulphate (SO4)	mg/L	139	8424715	22.6	8424709	6.43	8424715	184	0.50	8424709
Dissolved Chloride (Cl)	mg/L	2.4	8424712	2.3	8424705	1.3	8424712	0.97	0.50	8424705
Nutrients										
Orthophosphate (P)	mg/L	<0.0050	8423375	0.0160 (1)	8423375	0.0207 (1)	8423375	<0.0050	0.0050	8423375
Dissolved Phosphorus (P)	mg/L	0.0878	8425180	0.0302	8425180	0.0247	8425180	0.0341	0.0050	8425180
Total Ammonia (N)	mg/L	0.58	8424857	0.024	8424862	0.029	8424857	0.16	0.0050	8424857
Nitrate plus Nitrite (N)	mg/L	<0.020	8424497	0.022	8424497	0.072 (1)	8424497	<0.020	0.020	8424497
Physical Properties										
Conductivity	uS/cm	1580	8423402	312	8423402	107	8423402	1090	1.0	8423402
pH	pH	7.76	8423401	8.05	8423401	7.82	8423401	7.69		8423401
Physical Properties										
Total Suspended Solids	mg/L	18.5	8422062	34.3	8422062	10.3	8422062	5.5	4.0	8422062
Turbidity	NTU	85.2	8421090	3.64	8421090	20.4	8421090	3.38	0.10	8421090

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past recommended hold time.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B687153
Report Date: 2016/10/19

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		PR4788		PR4789			PR4790		
Sampling Date		2016/10/01 12:30		2016/10/01 13:20			2016/10/02 13:10		
COC Number		506921-01-01		506921-01-01			506921-01-01		
	UNITS	FIELD BLANK MW	QC Batch	DUPLICATE MW	RDL	QC Batch	BGC06-04	RDL	QC Batch
Misc. Inorganics									
Fluoride (F)	mg/L	<0.010	8422875	0.120	0.010	8422875	0.190	0.010	8422875
ANIONS									
Nitrite (N)	mg/L	<0.0050 (1)	8424500	<0.0050 (1)	0.0050	8424500	<0.0050	0.0050	8424500
Calculated Parameters									
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	N/A	ONSITE	LAB	N/A	8422689
Nitrate (N)	mg/L	<0.020	8421520	<0.020	0.020	8421520	0.040	0.020	8421520
Misc. Inorganics									
Alkalinity (Total as CaCO3)	mg/L	<0.50	8423400	151	0.50	8423400	164	0.50	8423400
Alkalinity (PP as CaCO3)	mg/L	<0.50	8423400	<0.50	0.50	8423400	1.46	0.50	8423400
Bicarbonate (HCO3)	mg/L	<0.50	8423400	184	0.50	8423400	197	0.50	8423400
Carbonate (CO3)	mg/L	<0.50	8423400	<0.50	0.50	8423400	1.75	0.50	8423400
Hydroxide (OH)	mg/L	<0.50	8423400	<0.50	0.50	8423400	<0.50	0.50	8423400
Anions									
Dissolved Sulphate (SO4)	mg/L	<0.50	8429146	25.8	0.50	8424715	13.1	0.50	8424715
Dissolved Chloride (Cl)	mg/L	<0.50	8424705	1.9	0.50	8424712	0.99	0.50	8424712
Nutrients									
Orthophosphate (P)	mg/L	<0.0050 (1)	8423375	0.0281 (1)	0.0050	8430231	0.0051	0.0050	8423375
Dissolved Phosphorus (P)	mg/L	<0.0050	8425180	0.0382	0.0050	8429724	0.0203	0.0020	8423090
Total Ammonia (N)	mg/L	<0.0050	8424857	0.015	0.0050	8424862	0.091	0.0050	8424857
Nitrate plus Nitrite (N)	mg/L	<0.020 (1)	8424497	<0.020 (1)	0.020	8424497	0.040	0.020	8424497
Physical Properties									
Conductivity	uS/cm	1.1	8423402	332	1.0	8423402	322	1.0	8423402
pH	pH	5.44	8423401	8.07		8423401	8.33		8423401
Physical Properties									
Total Suspended Solids	mg/L	<4.0	8422062	6.0	4.0	8424297	322 (2)	32	8424297
Turbidity	NTU	<0.10	8421090	3.09	0.10	8421090	139	0.10	8421090

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past recommended hold time.
(2) RDL raised due to high concentration of solids in the sample.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B687153
Report Date: 2016/10/19

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		PR4791			PR4792			PR4793		
Sampling Date		2016/10/01 17:05			2016/10/01 10:30			2016/10/01 11:30		
COC Number		506921-01-01			506921-01-01			506921-01-01		
	UNITS	BGC06-02	RDL	QC Batch	MW09-4S	RDL	QC Batch	MW09-4D	RDL	QC Batch
Misc. Inorganics										
Fluoride (F)	mg/L	0.210	0.010	8422875	0.075	0.010	8422875	0.071	0.010	8422875
ANIONS										
Nitrite (N)	mg/L	<0.0050	0.0050	8424500	<0.0050 (1)	0.0050	8424500	<0.0050 (1)	0.0050	8424500
Calculated Parameters										
Filter and HNO3 Preservation	N/A	FIELD	N/A	ONSITE	LAB	N/A	8422689	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	<0.020	0.020	8421520	0.054	0.020	8421520	0.044	0.020	8421520
Misc. Inorganics										
Alkalinity (Total as CaCO3)	mg/L	106	0.50	8423400	251	0.50	8423400	252	0.50	8423400
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	8423400	<0.50	0.50	8423400	<0.50	0.50	8423400
Bicarbonate (HCO3)	mg/L	129	0.50	8423400	307	0.50	8423400	308	0.50	8423400
Carbonate (CO3)	mg/L	<0.50	0.50	8423400	<0.50	0.50	8423400	<0.50	0.50	8423400
Hydroxide (OH)	mg/L	<0.50	0.50	8423400	<0.50	0.50	8423400	<0.50	0.50	8423400
Anions										
Dissolved Sulphate (SO4)	mg/L	9.40	0.50	8424715	3.93	0.50	8424715	3.02	0.50	8424715
Dissolved Chloride (Cl)	mg/L	0.54	0.50	8424712	7.6	0.50	8424712	7.2	0.50	8424712
Nutrients										
Orthophosphate (P)	mg/L	<0.0050 (1)	0.0050	8423375	0.0073 (1)	0.0050	8423375	<0.0050 (1)	0.0050	8423375
Dissolved Phosphorus (P)	mg/L	<0.0050	0.0050	8425180	0.0963 (1)	0.0020	8423090	0.0138	0.0050	8425180
Total Ammonia (N)	mg/L	0.015	0.0050	8424857	0.13	0.0050	8437255	0.18	0.0050	8424857
Nitrate plus Nitrite (N)	mg/L	<0.020 (1)	0.020	8424497	0.054 (1)	0.020	8424497	0.044 (1)	0.020	8424497
Physical Properties										
Conductivity	uS/cm	215	1.0	8423402	487	1.0	8423402	482	1.0	8423402
pH	pH	8.05		8423401	8.06		8423401	8.05		8423401
Physical Properties										
Total Suspended Solids	mg/L	69.5 (2)	8.0	8424297	1030 (3)	32	8424297	15.5	4.0	8424297
Turbidity	NTU	52.8	0.10	8421090	1090	0.10	8421090	56.5	0.10	8421090

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past recommended hold time.
(2) RDL raised due to sample matrix interference.
(3) RDL raised due to high concentration of solids in the sample.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B687153
Report Date: 2016/10/19

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR4784	PR4785	PR4786		PR4787		
Sampling Date		2016/10/02 15:20	2016/10/01 13:00	2016/10/01 13:50		2016/10/02 14:10		
COC Number		506921-01-01	506921-01-01	506921-01-01		506921-01-01		
	UNITS	MW09-01D	MW09-2D	MW09-2S	QC Batch	MW09-3	RDL	QC Batch
Misc. Inorganics								
Dissolved Hardness (CaCO3)	mg/L	867	118	29.8	8420933	578	0.50	8420933
Elements								
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	8428799	<0.010	0.010	8428799
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	3.7	<3.0	5.5	8423289	5.7	3.0	8423289
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	8423289	<0.50	0.50	8423289
Dissolved Arsenic (As)	ug/L	3.10	0.83	1.49	8423289	1.68	0.10	8423289
Dissolved Barium (Ba)	ug/L	146	44.8	6.9	8423289	94.7	1.0	8423289
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	8423289	<0.10	0.10	8423289
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	8423289	<1.0	1.0	8423289
Dissolved Boron (B)	ug/L	106	<50	<50	8423289	<50	50	8423289
Dissolved Cadmium (Cd)	ug/L	0.016	<0.010	<0.010	8423289	0.012	0.010	8423289
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	4.8	8423289	<1.0	1.0	8423289
Dissolved Cobalt (Co)	ug/L	7.14	<0.50	<0.50	8423289	3.14 (1)	0.50	8423289
Dissolved Copper (Cu)	ug/L	<0.20	0.21	0.38	8423289	0.48	0.20	8423289
Dissolved Iron (Fe)	ug/L	7730	658	6.3	8423289	899 (1)	5.0	8423289
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	8423289	<0.20	0.20	8423289
Dissolved Lithium (Li)	ug/L	19.1	<5.0	<5.0	8423289	21.5	5.0	8423289
Dissolved Manganese (Mn)	ug/L	929	116	<1.0	8423289	393 (1)	1.0	8429771
Dissolved Molybdenum (Mo)	ug/L	1.8	<1.0	<1.0	8423289	1.1	1.0	8423289
Dissolved Nickel (Ni)	ug/L	143	4.3	1.3	8423289	54.7	1.0	8423289
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	0.38	8423289	<0.10	0.10	8423289
Dissolved Silicon (Si)	ug/L	31700	19000	12000	8423289	12200	100	8423289
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	8423289	<0.020	0.020	8423289
Dissolved Strontium (Sr)	ug/L	371	59.5	16.3	8423289	256	1.0	8423289
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	8423289	<0.050	0.050	8423289
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	8423289	<5.0	5.0	8423289
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	8423289	<5.0	5.0	8423289
Dissolved Uranium (U)	ug/L	1.56	0.20	<0.10	8423289	1.37	0.10	8423289
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	7.3	8423289	<5.0	5.0	8423289
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	8423289	<5.0	5.0	8423289

RDL = Reportable Detection Limit
(1) Dissolved greater than total. Reanalysis yields similar results.

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Maxxam Job #: B687153
Report Date: 2016/10/19

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR4784	PR4785	PR4786		PR4787		
Sampling Date		2016/10/02 15:20	2016/10/01 13:00	2016/10/01 13:50		2016/10/02 14:10		
COC Number		506921-01-01	506921-01-01	506921-01-01		506921-01-01		
	UNITS	**MW09-01D**	**MW09-2D**	**MW09-2S**	**QC Batch**	**MW09-3**	**RDL**	**QC Batch**
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	8423289	0.51	0.50	8423289
Dissolved Calcium (Ca)	mg/L	55.8	17.6	4.09	8420934	76.4	0.050	8420934
Dissolved Magnesium (Mg)	mg/L	177	17.9	4.76	8420934	94.1	0.050	8420934
Dissolved Potassium (K)	mg/L	4.21	0.533	0.341	8420934	2.59	0.050	8420934
Dissolved Sodium (Na)	mg/L	21.4	15.0	10.2	8420934	8.62	0.050	8420934
Dissolved Sulphur (S)	mg/L	42.2	6.9	<3.0	8420934	62.2	3.0	8420934
RDL = Reportable Detection Limit								

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Maxxam Job #: B687153
Report Date: 2016/10/19

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR4788	PR4789	PR4790	PR4791	PR4792		
Sampling Date		2016/10/01 12:30	2016/10/01 13:20	2016/10/02 13:10	2016/10/01 17:05	2016/10/01 10:30		
COC Number		506921-01-01	506921-01-01	506921-01-01	506921-01-01	506921-01-01		
	UNITS	FIELD BLANK MW	DUPLICATE MW	BGC06-04	BGC06-02	MW09-4S	RDL	QC Batch
Misc. Inorganics								
Dissolved Hardness (CaCO3)	mg/L	<0.50	115	152	104	258	0.50	8420933
Elements								
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8428799
Dissolved Metals by ICPMS								
Dissolved Aluminum (Al)	ug/L	<3.0	<3.0	<3.0	<3.0	<3.0	3.0	8423289
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8423289
Dissolved Arsenic (As)	ug/L	<0.10	0.83	1.56	0.42	2.10	0.10	8423289
Dissolved Barium (Ba)	ug/L	<1.0	43.7	37.5	14.7	61.4	1.0	8423289
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8423289
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8423289
Dissolved Boron (B)	ug/L	<50	<50	<50	<50	<50	50	8423289
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	<0.010	0.022	0.010	8423289
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8423289
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8423289
Dissolved Copper (Cu)	ug/L	<0.20	0.30	0.21	<0.20	3.76	0.20	8423289
Dissolved Iron (Fe)	ug/L	<5.0	666	<5.0	<5.0	<5.0	5.0	8423289
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8423289
Dissolved Lithium (Li)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8423289
Dissolved Manganese (Mn)	ug/L	<1.0	116	1.6	1.2	1.2	1.0	8423289
Dissolved Molybdenum (Mo)	ug/L	<1.0	<1.0	1.8	<1.0	<1.0	1.0	8423289
Dissolved Nickel (Ni)	ug/L	<1.0	4.3	<1.0	5.3	11.9	1.0	8423289
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	<0.10	<0.10	0.15	0.10	8423289
Dissolved Silicon (Si)	ug/L	<100	19800	7880	9790	9550	100	8423289
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	8423289
Dissolved Strontium (Sr)	ug/L	<1.0	62.0	121	59.2	157	1.0	8423289
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8423289
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8423289
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8423289
Dissolved Uranium (U)	ug/L	<0.10	0.20	0.23	<0.10	0.57	0.10	8423289
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	6.1	<5.0	<5.0	5.0	8423289
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8423289
RDL = Reportable Detection Limit								

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Maxxam Job #: B687153
Report Date: 2016/10/19

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR4788	PR4789	PR4790	PR4791	PR4792		
Sampling Date		2016/10/01 12:30	2016/10/01 13:20	2016/10/02 13:10	2016/10/01 17:05	2016/10/01 10:30		
COC Number		506921-01-01	506921-01-01	506921-01-01	506921-01-01	506921-01-01		
	UNITS	**FIELD BLANK MW**	**DUPLICATE MW**	**BGC06-04**	**BGC06-02**	**MW09-4S**	**RDL**	**QC Batch**
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8423289
Dissolved Calcium (Ca)	mg/L	<0.050	18.2	12.3	13.1	52.5	0.050	8420934
Dissolved Magnesium (Mg)	mg/L	<0.050	17.0	29.4	17.3	30.7	0.050	8420934
Dissolved Potassium (K)	mg/L	<0.050	0.526	1.57	0.873	0.483	0.050	8420934
Dissolved Sodium (Na)	mg/L	<0.050	15.4	8.47	2.07	3.04	0.050	8420934
Dissolved Sulphur (S)	mg/L	<3.0	6.6	4.0	<3.0	<3.0	3.0	8420934
RDL = Reportable Detection Limit								

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Maxxam Job #: B687153
Report Date: 2016/10/19

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR4793		
Sampling Date		2016/10/01 11:30		
COC Number		506921-01-01		
	UNITS	MW09-4D	RDL	QC Batch
Misc. Inorganics				
Dissolved Hardness (CaCO3)	mg/L	248	0.50	8420933
Elements				
Dissolved Mercury (Hg)	ug/L	<0.010	0.010	8428799
Dissolved Metals by ICPMS				
Dissolved Aluminum (Al)	ug/L	3.9	3.0	8423289
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	8423289
Dissolved Arsenic (As)	ug/L	0.53	0.10	8423289
Dissolved Barium (Ba)	ug/L	39.7	1.0	8423289
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	8423289
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	8423289
Dissolved Boron (B)	ug/L	<50	50	8423289
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	8423289
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	8423289
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	8423289
Dissolved Copper (Cu)	ug/L	1.54	0.20	8423289
Dissolved Iron (Fe)	ug/L	<5.0	5.0	8423289
Dissolved Lead (Pb)	ug/L	<0.20	0.20	8423289
Dissolved Lithium (Li)	ug/L	<5.0	5.0	8423289
Dissolved Manganese (Mn)	ug/L	<1.0	1.0	8423289
Dissolved Molybdenum (Mo)	ug/L	<1.0	1.0	8423289
Dissolved Nickel (Ni)	ug/L	13.7	1.0	8423289
Dissolved Selenium (Se)	ug/L	0.11	0.10	8423289
Dissolved Silicon (Si)	ug/L	8730	100	8423289
Dissolved Silver (Ag)	ug/L	<0.020	0.020	8423289
Dissolved Strontium (Sr)	ug/L	131	1.0	8423289
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	8423289
Dissolved Tin (Sn)	ug/L	<5.0	5.0	8423289
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	8423289
Dissolved Uranium (U)	ug/L	0.76	0.10	8423289
Dissolved Vanadium (V)	ug/L	<5.0	5.0	8423289
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	8423289
RDL = Reportable Detection Limit				

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Maxxam Job #: B687153
Report Date: 2016/10/19

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR4793		
Sampling Date		2016/10/01 11:30		
COC Number		506921-01-01		
	UNITS	**MW09-4D**	**RDL**	**QC Batch**
Dissolved Zirconium (Zr)	ug/L	<0.50	0.50	8423289
Dissolved Calcium (Ca)	mg/L	49.3	0.050	8420934
Dissolved Magnesium (Mg)	mg/L	30.3	0.050	8420934
Dissolved Potassium (K)	mg/L	0.488	0.050	8420934
Dissolved Sodium (Na)	mg/L	3.06	0.050	8420934
Dissolved Sulphur (S)	mg/L	<3.0	3.0	8420934
RDL = Reportable Detection Limit				

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Maxxam Job #: B687153
Report Date: 2016/10/19

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR4784	PR4785		PR4786	PR4787		
Sampling Date		2016/10/02 15:20	2016/10/01 13:00		2016/10/01 13:50	2016/10/02 14:10		
COC Number		506921-01-01	506921-01-01		506921-01-01	506921-01-01		
	UNITS	MW09-01D	MW09-2D	QC Batch	MW09-2S	MW09-3	RDL	QC Batch
Calculated Parameters								
Total Hardness (CaCO3)	mg/L	982	137	8420969	38.4	610	0.50	8420969
Elements								
Total Mercury (Hg)	ug/L	<0.010	<0.010	8428538	<0.010	<0.010	0.010	8428538
Total Metals by ICPMS								
Total Aluminum (Al)	ug/L	<3.0	11.9	8423644	1030	47.6	3.0	8422926
Total Antimony (Sb)	ug/L	<0.50	<0.50	8423644	<0.50	<0.50	0.50	8422926
Total Arsenic (As)	ug/L	3.10	0.87	8423644	1.90	1.39	0.10	8422926
Total Barium (Ba)	ug/L	165	48.2	8423644	14.3	112	1.0	8422926
Total Beryllium (Be)	ug/L	<0.10	<0.10	8423644	<0.10	<0.10	0.10	8422926
Total Bismuth (Bi)	ug/L	<1.0	<1.0	8423644	<1.0	<1.0	1.0	8422926
Total Boron (B)	ug/L	119	<50	8423644	<50	<50	50	8422926
Total Cadmium (Cd)	ug/L	<0.010	<0.010	8423644	0.014	0.050	0.010	8422926
Total Chromium (Cr)	ug/L	<1.0	<1.0	8423644	11.9	<1.0	1.0	8422926
Total Cobalt (Co)	ug/L	6.78	<0.50	8423644	2.05	2.33	0.50	8422926
Total Copper (Cu)	ug/L	<0.50	<0.50	8423644	1.47	1.50	0.50	8422926
Total Iron (Fe)	ug/L	7900	962	8423644	1030	451	10	8422926
Total Lead (Pb)	ug/L	<0.20	<0.20	8423644	0.70	<0.20	0.20	8422926
Total Lithium (Li)	ug/L	21.2	<5.0	8423644	<5.0	19.5	5.0	8422926
Total Manganese (Mn)	ug/L	894	130	8423644	29.0	268	1.0	8422926
Total Molybdenum (Mo)	ug/L	2.0	<1.0	8423644	<1.0	1.1	1.0	8422926
Total Nickel (Ni)	ug/L	134	4.8	8423644	39.7	55.4	1.0	8422926
Total Selenium (Se)	ug/L	<0.10	<0.10	8423644	0.42	0.11	0.10	8422926
Total Silicon (Si)	ug/L	39800	23600	8423644	17200	13400	100	8422926
Total Silver (Ag)	ug/L	<0.020	<0.020	8423644	<0.020	<0.020	0.020	8422926
Total Strontium (Sr)	ug/L	403	59.4	8423644	20.8	269	1.0	8422926
Total Thallium (Tl)	ug/L	<0.050	<0.050	8423644	<0.050	<0.050	0.050	8422926
Total Tin (Sn)	ug/L	<5.0	<5.0	8423644	<5.0	<5.0	5.0	8422926
Total Titanium (Ti)	ug/L	<5.0	<5.0	8423644	15.2	<5.0	5.0	8422926
Total Uranium (U)	ug/L	1.46	0.20	8423644	0.14	1.64	0.10	8422926
Total Vanadium (V)	ug/L	<5.0	<5.0	8423644	8.8	<5.0	5.0	8422926
Total Zinc (Zn)	ug/L	<5.0	<5.0	8423644	<5.0	<5.0	5.0	8422926

RDL = Reportable Detection Limit

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Maxxam Job #: B687153
Report Date: 2016/10/19

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR4784	PR4785		PR4786	PR4787		
Sampling Date		2016/10/02 15:20	2016/10/01 13:00		2016/10/01 13:50	2016/10/02 14:10		
COC Number		506921-01-01	506921-01-01		506921-01-01	506921-01-01		
	UNITS	MW09-01D	MW09-2D	QC Batch	MW09-2S	MW09-3	RDL	QC Batch
Total Zirconium (Zr)	ug/L	0.50	<0.50	8423644	0.68	<0.50	0.50	8422926
Total Calcium (Ca)	mg/L	61.6	20.0	8421036	5.04	85.7	0.050	8421036
Total Magnesium (Mg)	mg/L	201	21.2	8421036	6.27	96.2	0.050	8421036
Total Potassium (K)	mg/L	4.86	0.604	8421036	0.522	2.89	0.050	8421036
Total Sodium (Na)	mg/L	22.6	19.7	8421036	10.4	8.91	0.050	8421036
Total Sulphur (S)	mg/L	49.9	8.9	8421036	<3.0	64.3	3.0	8421036
RDL = Reportable Detection Limit								

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Maxxam Job #: B687153
Report Date: 2016/10/19

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR4788	PR4789		PR4790	PR4791	PR4792		
Sampling Date		2016/10/01 12:30	2016/10/01 13:20		2016/10/02 13:10	2016/10/01 17:05	2016/10/01 10:30		
COC Number		506921-01-01	506921-01-01		506921-01-01	506921-01-01	506921-01-01		
	UNITS	FIELD BLANK MW	DUPLICATE MW	QC Batch	BGC06-04	BGC06-02	MW09-4S	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	<0.50	133	8420969	228	117	451	0.50	8420969
Elements									
Total Mercury (Hg)	ug/L	<0.010	<0.010	8428538	<0.010	<0.010	<0.010	0.010	8428538
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	<3.0	9.7	8423644	8660	449	19700	3.0	8422926
Total Antimony (Sb)	ug/L	<0.50	<0.50	8423644	<0.50	<0.50	<0.50	0.50	8422926
Total Arsenic (As)	ug/L	<0.10	1.01	8423644	3.93	1.32	28.5	0.10	8422926
Total Barium (Ba)	ug/L	<1.0	46.8	8423644	146	18.4	332	1.0	8422926
Total Beryllium (Be)	ug/L	<0.10	<0.10	8423644	1.04	<0.10	1.11	0.10	8422926
Total Bismuth (Bi)	ug/L	<1.0	<1.0	8423644	<1.0	<1.0	<1.0	1.0	8422926
Total Boron (B)	ug/L	<50	<50	8423644	<50	<50	<50	50	8422926
Total Cadmium (Cd)	ug/L	<0.010	<0.010	8423644	0.172	0.016	0.734	0.010	8422926
Total Chromium (Cr)	ug/L	<1.0	<1.0	8423644	28.1	3.5	140	1.0	8422926
Total Cobalt (Co)	ug/L	<0.50	<0.50	8423644	6.70	1.95	55.1	0.50	8422926
Total Copper (Cu)	ug/L	<0.50	<0.50	8423644	9.94	1.15	106	0.50	8422926
Total Iron (Fe)	ug/L	<10	949	8423644	10800	718	40400	10	8422926
Total Lead (Pb)	ug/L	<0.20	<0.20	8423644	22.7	1.68	18.7	0.20	8422926
Total Lithium (Li)	ug/L	<5.0	<5.0	8423644	5.7	<5.0	15.3	5.0	8422926
Total Manganese (Mn)	ug/L	<1.0	134	8423644	352	178	1220	1.0	8422926
Total Molybdenum (Mo)	ug/L	<1.0	<1.0	8423644	1.1	<1.0	<1.0	1.0	8422926
Total Nickel (Ni)	ug/L	<1.0	4.8	8423644	66.5	47.9	607	1.0	8422926
Total Selenium (Se)	ug/L	<0.10	<0.10	8423644	0.13	<0.10	0.34	0.10	8422926
Total Silicon (Si)	ug/L	<100	24000	8423644	23900	12900	47600	100	8422926
Total Silver (Ag)	ug/L	<0.020	<0.020	8423644	0.022	<0.020	0.116	0.020	8422926
Total Strontium (Sr)	ug/L	<1.0	58.5	8423644	159	61.1	226	1.0	8422926
Total Thallium (Tl)	ug/L	<0.050	<0.050	8423644	<0.050	<0.050	0.145	0.050	8422926
Total Tin (Sn)	ug/L	<5.0	<5.0	8423644	<5.0	<5.0	<5.0	5.0	8422926
Total Titanium (Ti)	ug/L	<5.0	<5.0	8423644	90.0	<5.0	413	5.0	8422926
Total Uranium (U)	ug/L	<0.10	0.20	8423644	2.99	<0.10	2.10	0.10	8422926
Total Vanadium (V)	ug/L	<5.0	<5.0	8423644	19.6	<5.0	62.7	5.0	8422926
Total Zinc (Zn)	ug/L	<5.0	<5.0	8423644	39.1	<5.0	112	5.0	8422926
RDL = Reportable Detection Limit									

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Maxxam Job #: B687153
Report Date: 2016/10/19

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR4788	PR4789		PR4790	PR4791	PR4792		
Sampling Date		2016/10/01 12:30	2016/10/01 13:20		2016/10/02 13:10	2016/10/01 17:05	2016/10/01 10:30		
COC Number		506921-01-01	506921-01-01		506921-01-01	506921-01-01	506921-01-01		
	UNITS	**FIELD BLANK MW**	**DUPLICATE MW**	**QC Batch**	**BGC06-04**	**BGC06-02**	**MW09-4S**	**RDL**	**QC Batch**
Total Zirconium (Zr)	ug/L	<0.50	<0.50	8423644	1.20	<0.50	1.87	0.50	8422926
Total Calcium (Ca)	mg/L	<0.050	20.7	8421036	17.3	15.3	72.9	0.050	8421036
Total Magnesium (Mg)	mg/L	<0.050	19.8	8421036	44.8	19.2	65.3	0.050	8421036
Total Potassium (K)	mg/L	<0.050	0.616	8421036	2.56	0.973	2.82	0.050	8421036
Total Sodium (Na)	mg/L	<0.050	19.1	8421036	10.2	2.06	3.88	0.050	8421036
Total Sulphur (S)	mg/L	<3.0	8.4	8421036	4.3	<3.0	<3.0	3.0	8421036
RDL = Reportable Detection Limit									

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AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR4793		
Sampling Date		2016/10/01 11:30		
COC Number		506921-01-01		
	UNITS	MW09-4D	RDL	QC Batch
Calculated Parameters				
Total Hardness (CaCO3)	mg/L	295	0.50	8420969
Elements				
Total Mercury (Hg)	ug/L	<0.010	0.010	8428538
Total Metals by ICPMS				
Total Aluminum (Al)	ug/L	1150	3.0	8422926
Total Antimony (Sb)	ug/L	<0.50	0.50	8422926
Total Arsenic (As)	ug/L	1.47	0.10	8422926
Total Barium (Ba)	ug/L	58.7	1.0	8422926
Total Beryllium (Be)	ug/L	<0.10	0.10	8422926
Total Bismuth (Bi)	ug/L	<1.0	1.0	8422926
Total Boron (B)	ug/L	<50	50	8422926
Total Cadmium (Cd)	ug/L	0.028	0.010	8422926
Total Chromium (Cr)	ug/L	7.4	1.0	8422926
Total Cobalt (Co)	ug/L	2.91	0.50	8422926
Total Copper (Cu)	ug/L	5.34	0.50	8422926
Total Iron (Fe)	ug/L	2000	10	8422926
Total Lead (Pb)	ug/L	0.95	0.20	8422926
Total Lithium (Li)	ug/L	<5.0	5.0	8422926
Total Manganese (Mn)	ug/L	52.4	1.0	8422926
Total Molybdenum (Mo)	ug/L	<1.0	1.0	8422926
Total Nickel (Ni)	ug/L	45.1	1.0	8422926
Total Selenium (Se)	ug/L	<0.10	0.10	8422926
Total Silicon (Si)	ug/L	12900	100	8422926
Total Silver (Ag)	ug/L	<0.020	0.020	8422926
Total Strontium (Sr)	ug/L	147	1.0	8422926
Total Thallium (Tl)	ug/L	<0.050	0.050	8422926
Total Tin (Sn)	ug/L	<5.0	5.0	8422926
Total Titanium (Ti)	ug/L	46.0	5.0	8422926
Total Uranium (U)	ug/L	0.89	0.10	8422926
Total Vanadium (V)	ug/L	<5.0	5.0	8422926
Total Zinc (Zn)	ug/L	9.8	5.0	8422926
RDL = Reportable Detection Limit				

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AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR4793		
Sampling Date		2016/10/01 11:30		
COC Number		506921-01-01		
	UNITS	**MW09-4D**	**RDL**	**QC Batch**
Total Zirconium (Zr)	ug/L	<0.50	0.50	8422926
Total Calcium (Ca)	mg/L	59.2	0.050	8421036
Total Magnesium (Mg)	mg/L	35.8	0.050	8421036
Total Potassium (K)	mg/L	0.723	0.050	8421036
Total Sodium (Na)	mg/L	3.14	0.050	8421036
Total Sulphur (S)	mg/L	<3.0	3.0	8421036
RDL = Reportable Detection Limit				

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GENERAL COMMENTS

Sample PR4787, Elements by CRC ICPMS (dissolved): Test repeated.

Results relate only to the items tested.

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AFRICAN QUEEN MINES LTD.
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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8421090	CGP	Spiked Blank	Turbidity	2016/10/04		104	%	80 - 120
8421090	CGP	Method Blank	Turbidity	2016/10/04	<0.10		NTU	
8421090	CGP	RPD	Turbidity	2016/10/04	16		%	20
8422062	WFO	Matrix Spike	Total Suspended Solids	2016/10/06		105	%	80 - 120
8422062	WFO	Spiked Blank	Total Suspended Solids	2016/10/05		100	%	80 - 120
8422062	WFO	Method Blank	Total Suspended Solids	2016/10/05	<4.0		mg/L	
8422062	WFO	RPD	Total Suspended Solids	2016/10/06	NC		%	20
8422875	BB3	Matrix Spike	Fluoride (F)	2016/10/06		NC	%	80 - 120
8422875	BB3	Spiked Blank	Fluoride (F)	2016/10/06		100	%	80 - 120
8422875	BB3	Method Blank	Fluoride (F)	2016/10/06	<0.010		mg/L	
8422875	BB3	RPD [PR4787-01]	Fluoride (F)	2016/10/06	0		%	20
8422926	AA1	Matrix Spike	Total Aluminum (Al)	2016/10/05		NC	%	80 - 120
			Total Antimony (Sb)	2016/10/05		106	%	80 - 120
			Total Arsenic (As)	2016/10/05		113	%	80 - 120
			Total Barium (Ba)	2016/10/05		NC	%	80 - 120
			Total Beryllium (Be)	2016/10/05		114	%	80 - 120
			Total Bismuth (Bi)	2016/10/05		103	%	80 - 120
			Total Boron (B)	2016/10/05		108	%	80 - 120
			Total Cadmium (Cd)	2016/10/05		NC	%	80 - 120
			Total Chromium (Cr)	2016/10/05		97	%	80 - 120
			Total Cobalt (Co)	2016/10/05		NC	%	80 - 120
			Total Copper (Cu)	2016/10/05		NC	%	80 - 120
			Total Iron (Fe)	2016/10/05		NC	%	80 - 120
			Total Lead (Pb)	2016/10/05		101	%	80 - 120
			Total Lithium (Li)	2016/10/05		98	%	80 - 120
			Total Manganese (Mn)	2016/10/05		NC	%	80 - 120
			Total Molybdenum (Mo)	2016/10/05		NC	%	80 - 120
			Total Nickel (Ni)	2016/10/05		NC	%	80 - 120
			Total Selenium (Se)	2016/10/05		118	%	80 - 120
			Total Silver (Ag)	2016/10/05		84	%	80 - 120
			Total Strontium (Sr)	2016/10/05		NC	%	80 - 120
			Total Thallium (Tl)	2016/10/05		77 (1)	%	80 - 120
			Total Tin (Sn)	2016/10/05		95	%	80 - 120
			Total Titanium (Ti)	2016/10/05		115	%	80 - 120
			Total Uranium (U)	2016/10/05		100	%	80 - 120
			Total Vanadium (V)	2016/10/05		100	%	80 - 120
			Total Zinc (Zn)	2016/10/05		NC	%	80 - 120
8422926	AA1	Spiked Blank	Total Aluminum (Al)	2016/10/05		112	%	80 - 120
			Total Antimony (Sb)	2016/10/05		106	%	80 - 120
			Total Arsenic (As)	2016/10/05		110	%	80 - 120
			Total Barium (Ba)	2016/10/05		100	%	80 - 120
			Total Beryllium (Be)	2016/10/05		114	%	80 - 120
			Total Bismuth (Bi)	2016/10/05		101	%	80 - 120
			Total Boron (B)	2016/10/05		107	%	80 - 120
			Total Cadmium (Cd)	2016/10/05		109	%	80 - 120
			Total Chromium (Cr)	2016/10/05		98	%	80 - 120
			Total Cobalt (Co)	2016/10/05		97	%	80 - 120
			Total Copper (Cu)	2016/10/05		104	%	80 - 120
			Total Iron (Fe)	2016/10/05		101	%	80 - 120
			Total Lead (Pb)	2016/10/05		100	%	80 - 120
			Total Lithium (Li)	2016/10/05		101	%	80 - 120
			Total Manganese (Mn)	2016/10/05		97	%	80 - 120
			Total Molybdenum (Mo)	2016/10/05		98	%	80 - 120

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AFRICAN QUEEN MINES LTD.
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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Nickel (Ni)	2016/10/05		98	%	80 - 120
			Total Selenium (Se)	2016/10/05		115	%	80 - 120
			Total Silver (Ag)	2016/10/05		105	%	80 - 120
			Total Strontium (Sr)	2016/10/05		97	%	80 - 120
			Total Thallium (Tl)	2016/10/05		87	%	80 - 120
			Total Tin (Sn)	2016/10/05		100	%	80 - 120
			Total Titanium (Ti)	2016/10/05		99	%	80 - 120
			Total Uranium (U)	2016/10/05		99	%	80 - 120
			Total Vanadium (V)	2016/10/05		98	%	80 - 120
			Total Zinc (Zn)	2016/10/05		123 (2)	%	80 - 120
8422926	AA1	Method Blank	Total Aluminum (Al)	2016/10/05	<3.0		ug/L	
			Total Antimony (Sb)	2016/10/05	<0.50		ug/L	
			Total Arsenic (As)	2016/10/05	<0.10		ug/L	
			Total Barium (Ba)	2016/10/05	<1.0		ug/L	
			Total Beryllium (Be)	2016/10/05	<0.10		ug/L	
			Total Bismuth (Bi)	2016/10/05	<1.0		ug/L	
			Total Boron (B)	2016/10/05	<50		ug/L	
			Total Cadmium (Cd)	2016/10/05	<0.010		ug/L	
			Total Chromium (Cr)	2016/10/05	<1.0		ug/L	
			Total Cobalt (Co)	2016/10/05	<0.50		ug/L	
			Total Copper (Cu)	2016/10/05	<0.50		ug/L	
			Total Iron (Fe)	2016/10/05	<10		ug/L	
			Total Lead (Pb)	2016/10/05	<0.20		ug/L	
			Total Lithium (Li)	2016/10/05	<5.0		ug/L	
			Total Manganese (Mn)	2016/10/05	<1.0		ug/L	
			Total Molybdenum (Mo)	2016/10/05	<1.0		ug/L	
			Total Nickel (Ni)	2016/10/05	<1.0		ug/L	
			Total Selenium (Se)	2016/10/05	<0.10		ug/L	
			Total Silicon (Si)	2016/10/05	<100		ug/L	
			Total Silver (Ag)	2016/10/05	<0.020		ug/L	
			Total Strontium (Sr)	2016/10/05	<1.0		ug/L	
			Total Thallium (Tl)	2016/10/05	<0.050		ug/L	
			Total Tin (Sn)	2016/10/05	<5.0		ug/L	
			Total Titanium (Ti)	2016/10/05	<5.0		ug/L	
			Total Uranium (U)	2016/10/05	<0.10		ug/L	
			Total Vanadium (V)	2016/10/05	<5.0		ug/L	
			Total Zinc (Zn)	2016/10/05	<5.0		ug/L	
			Total Zirconium (Zr)	2016/10/05	<0.50		ug/L	
8422926	AA1	RPD	Total Aluminum (Al)	2016/10/05	0.54		%	20
			Total Antimony (Sb)	2016/10/05	NC		%	20
			Total Arsenic (As)	2016/10/05	4.2		%	20
			Total Barium (Ba)	2016/10/05	0.56		%	20
			Total Beryllium (Be)	2016/10/05	NC		%	20
			Total Bismuth (Bi)	2016/10/05	NC		%	20
			Total Boron (B)	2016/10/05	NC		%	20
			Total Cadmium (Cd)	2016/10/05	2.2		%	20
			Total Chromium (Cr)	2016/10/05	NC		%	20
			Total Cobalt (Co)	2016/10/05	0.92		%	20
			Total Copper (Cu)	2016/10/05	5.9		%	20
			Total Iron (Fe)	2016/10/05	1.6		%	20
			Total Lead (Pb)	2016/10/05	NC		%	20
			Total Lithium (Li)	2016/10/05	NC		%	20
			Total Manganese (Mn)	2016/10/05	1.4		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Molybdenum (Mo)	2016/10/05	NC		%	20
			Total Nickel (Ni)	2016/10/05	2.4		%	20
			Total Selenium (Se)	2016/10/05	1.3		%	20
			Total Silicon (Si)	2016/10/05	1.6		%	20
			Total Silver (Ag)	2016/10/05	NC		%	20
			Total Strontium (Sr)	2016/10/05	1.2		%	20
			Total Thallium (Tl)	2016/10/05	NC		%	20
			Total Tin (Sn)	2016/10/05	NC		%	20
			Total Titanium (Ti)	2016/10/05	NC		%	20
			Total Uranium (U)	2016/10/05	NC		%	20
			Total Vanadium (V)	2016/10/05	NC		%	20
			Total Zinc (Zn)	2016/10/05	1.5		%	20
			Total Zirconium (Zr)	2016/10/05	NC		%	20
8423090	IC4	Matrix Spike	Dissolved Phosphorus (P)	2016/10/05		95	%	80 - 120
8423090	IC4	Spiked Blank	Dissolved Phosphorus (P)	2016/10/05		115	%	80 - 120
8423090	IC4	Method Blank	Dissolved Phosphorus (P)	2016/10/05	<0.0020		mg/L	
8423090	IC4	RPD	Dissolved Phosphorus (P)	2016/10/05	3.8		%	20
8423289	JT3	Matrix Spike [PR4786-05]	Dissolved Aluminum (Al)	2016/10/06		98	%	80 - 120
			Dissolved Antimony (Sb)	2016/10/06		102	%	80 - 120
			Dissolved Arsenic (As)	2016/10/06		102	%	80 - 120
			Dissolved Barium (Ba)	2016/10/06		NC	%	80 - 120
			Dissolved Beryllium (Be)	2016/10/06		99	%	80 - 120
			Dissolved Bismuth (Bi)	2016/10/06		100	%	80 - 120
			Dissolved Boron (B)	2016/10/06		103	%	80 - 120
			Dissolved Cadmium (Cd)	2016/10/06		100	%	80 - 120
			Dissolved Chromium (Cr)	2016/10/06		98	%	80 - 120
			Dissolved Cobalt (Co)	2016/10/06		101	%	80 - 120
			Dissolved Copper (Cu)	2016/10/06		99	%	80 - 120
			Dissolved Iron (Fe)	2016/10/06		104	%	80 - 120
			Dissolved Lead (Pb)	2016/10/06		97	%	80 - 120
			Dissolved Lithium (Li)	2016/10/06		100	%	80 - 120
			Dissolved Manganese (Mn)	2016/10/06		99	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/10/06		NC	%	80 - 120
			Dissolved Nickel (Ni)	2016/10/06		100	%	80 - 120
			Dissolved Selenium (Se)	2016/10/06		102	%	80 - 120
			Dissolved Silver (Ag)	2016/10/06		103	%	80 - 120
			Dissolved Strontium (Sr)	2016/10/06		NC	%	80 - 120
			Dissolved Thallium (Tl)	2016/10/06		104	%	80 - 120
			Dissolved Tin (Sn)	2016/10/06		104	%	80 - 120
			Dissolved Titanium (Ti)	2016/10/06		102	%	80 - 120
			Dissolved Uranium (U)	2016/10/06		97	%	80 - 120
			Dissolved Vanadium (V)	2016/10/06		NC	%	80 - 120
			Dissolved Zinc (Zn)	2016/10/06		102	%	80 - 120
8423289	JT3	Spiked Blank	Dissolved Aluminum (Al)	2016/10/06		98	%	80 - 120
			Dissolved Antimony (Sb)	2016/10/06		100	%	80 - 120
			Dissolved Arsenic (As)	2016/10/06		105	%	80 - 120
			Dissolved Barium (Ba)	2016/10/06		96	%	80 - 120
			Dissolved Beryllium (Be)	2016/10/06		99	%	80 - 120
			Dissolved Bismuth (Bi)	2016/10/06		98	%	80 - 120
			Dissolved Boron (B)	2016/10/06		97	%	80 - 120
			Dissolved Cadmium (Cd)	2016/10/06		98	%	80 - 120
			Dissolved Chromium (Cr)	2016/10/06		100	%	80 - 120
			Dissolved Cobalt (Co)	2016/10/06		102	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Copper (Cu)	2016/10/06		99	%	80 - 120
			Dissolved Iron (Fe)	2016/10/06		109	%	80 - 120
			Dissolved Lead (Pb)	2016/10/06		94	%	80 - 120
			Dissolved Lithium (Li)	2016/10/06		99	%	80 - 120
			Dissolved Manganese (Mn)	2016/10/06		100	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/10/06		101	%	80 - 120
			Dissolved Nickel (Ni)	2016/10/06		102	%	80 - 120
			Dissolved Selenium (Se)	2016/10/06		105	%	80 - 120
			Dissolved Silver (Ag)	2016/10/06		105	%	80 - 120
			Dissolved Strontium (Sr)	2016/10/06		93	%	80 - 120
			Dissolved Thallium (Tl)	2016/10/06		100	%	80 - 120
			Dissolved Tin (Sn)	2016/10/06		103	%	80 - 120
			Dissolved Titanium (Ti)	2016/10/06		92	%	80 - 120
			Dissolved Uranium (U)	2016/10/06		92	%	80 - 120
			Dissolved Vanadium (V)	2016/10/06		100	%	80 - 120
			Dissolved Zinc (Zn)	2016/10/06		104	%	80 - 120
8423289	JT3	Method Blank	Dissolved Aluminum (Al)	2016/10/06	<3.0		ug/L	
			Dissolved Antimony (Sb)	2016/10/06	<0.50		ug/L	
			Dissolved Arsenic (As)	2016/10/06	<0.10		ug/L	
			Dissolved Barium (Ba)	2016/10/06	<1.0		ug/L	
			Dissolved Beryllium (Be)	2016/10/06	<0.10		ug/L	
			Dissolved Bismuth (Bi)	2016/10/06	<1.0		ug/L	
			Dissolved Boron (B)	2016/10/06	<50		ug/L	
			Dissolved Cadmium (Cd)	2016/10/06	<0.010		ug/L	
			Dissolved Chromium (Cr)	2016/10/06	<1.0		ug/L	
			Dissolved Cobalt (Co)	2016/10/06	<0.50		ug/L	
			Dissolved Copper (Cu)	2016/10/06	<0.20		ug/L	
			Dissolved Iron (Fe)	2016/10/06	<5.0		ug/L	
			Dissolved Lead (Pb)	2016/10/06	<0.20		ug/L	
			Dissolved Lithium (Li)	2016/10/06	<5.0		ug/L	
			Dissolved Manganese (Mn)	2016/10/06	<1.0		ug/L	
			Dissolved Molybdenum (Mo)	2016/10/06	<1.0		ug/L	
			Dissolved Nickel (Ni)	2016/10/06	<1.0		ug/L	
			Dissolved Selenium (Se)	2016/10/06	<0.10		ug/L	
			Dissolved Silicon (Si)	2016/10/06	<100		ug/L	
			Dissolved Silver (Ag)	2016/10/06	<0.020		ug/L	
			Dissolved Strontium (Sr)	2016/10/06	<1.0		ug/L	
			Dissolved Thallium (Tl)	2016/10/06	<0.050		ug/L	
			Dissolved Tin (Sn)	2016/10/06	<5.0		ug/L	
			Dissolved Titanium (Ti)	2016/10/06	<5.0		ug/L	
			Dissolved Uranium (U)	2016/10/06	<0.10		ug/L	
			Dissolved Vanadium (V)	2016/10/06	<5.0		ug/L	
			Dissolved Zinc (Zn)	2016/10/06	<5.0		ug/L	
			Dissolved Zirconium (Zr)	2016/10/06	<0.50		ug/L	
8423289	JT3	RPD [PR4786-05]	Dissolved Aluminum (Al)	2016/10/06	NC		%	20
			Dissolved Antimony (Sb)	2016/10/06	NC		%	20
			Dissolved Arsenic (As)	2016/10/06	0.20		%	20
			Dissolved Barium (Ba)	2016/10/06	3.5		%	20
			Dissolved Beryllium (Be)	2016/10/06	NC		%	20
			Dissolved Bismuth (Bi)	2016/10/06	NC		%	20
			Dissolved Boron (B)	2016/10/06	NC		%	20
			Dissolved Cadmium (Cd)	2016/10/06	NC		%	20
			Dissolved Chromium (Cr)	2016/10/06	NC		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Cobalt (Co)	2016/10/06	NC		%	20
			Dissolved Copper (Cu)	2016/10/06	NC		%	20
			Dissolved Iron (Fe)	2016/10/06	NC		%	20
			Dissolved Lead (Pb)	2016/10/06	NC		%	20
			Dissolved Lithium (Li)	2016/10/06	NC		%	20
			Dissolved Manganese (Mn)	2016/10/06	NC		%	20
			Dissolved Molybdenum (Mo)	2016/10/06	NC		%	20
			Dissolved Nickel (Ni)	2016/10/06	NC		%	20
			Dissolved Selenium (Se)	2016/10/06	NC		%	20
			Dissolved Silicon (Si)	2016/10/06	3.4		%	20
			Dissolved Silver (Ag)	2016/10/06	NC		%	20
			Dissolved Strontium (Sr)	2016/10/06	1.1		%	20
			Dissolved Thallium (Tl)	2016/10/06	NC		%	20
			Dissolved Tin (Sn)	2016/10/06	NC		%	20
			Dissolved Titanium (Ti)	2016/10/06	NC		%	20
			Dissolved Uranium (U)	2016/10/06	NC		%	20
			Dissolved Vanadium (V)	2016/10/06	NC		%	20
			Dissolved Zinc (Zn)	2016/10/06	NC		%	20
			Dissolved Zirconium (Zr)	2016/10/06	NC		%	20
8423375	IC4	Matrix Spike [PR4785-01]	Orthophosphate (P)	2016/10/05		96	%	80 - 120
8423375	IC4	Spiked Blank	Orthophosphate (P)	2016/10/05		95	%	80 - 120
8423375	IC4	Method Blank	Orthophosphate (P)	2016/10/05	<0.0050		mg/L	
8423375	IC4	RPD [PR4785-01]	Orthophosphate (P)	2016/10/05	NC		%	20
8423400	WAY	Matrix Spike	Alkalinity (Total as CaCO3)	2016/10/05		NC	%	80 - 120
8423400	WAY	Spiked Blank	Alkalinity (Total as CaCO3)	2016/10/05		97	%	80 - 120
8423400	WAY	Method Blank	Alkalinity (Total as CaCO3)	2016/10/05	<0.50		mg/L	
			Alkalinity (PP as CaCO3)	2016/10/05	<0.50		mg/L	
			Bicarbonate (HCO3)	2016/10/05	<0.50		mg/L	
			Carbonate (CO3)	2016/10/05	<0.50		mg/L	
			Hydroxide (OH)	2016/10/05	<0.50		mg/L	
8423400	WAY	RPD	Alkalinity (Total as CaCO3)	2016/10/05	0.91		%	20
			Alkalinity (PP as CaCO3)	2016/10/05	NC		%	20
			Bicarbonate (HCO3)	2016/10/05	0.91		%	20
			Carbonate (CO3)	2016/10/05	NC		%	20
			Hydroxide (OH)	2016/10/05	NC		%	20
8423401	WAY	Spiked Blank	pH	2016/10/05		102	%	97 - 103
8423401	WAY	RPD	pH	2016/10/05	0.97		%	N/A
8423402	WAY	Spiked Blank	Conductivity	2016/10/05		99	%	80 - 120
8423402	WAY	Method Blank	Conductivity	2016/10/05	<1.0		uS/cm	
8423644	GS2	Matrix Spike [PR4784-03]	Total Aluminum (Al)	2016/10/08		103	%	80 - 120
			Total Antimony (Sb)	2016/10/08		98	%	80 - 120
			Total Arsenic (As)	2016/10/08		97	%	80 - 120
			Total Barium (Ba)	2016/10/08		NC	%	80 - 120
			Total Beryllium (Be)	2016/10/08		93	%	80 - 120
			Total Bismuth (Bi)	2016/10/08		97	%	80 - 120
			Total Boron (B)	2016/10/08		NC	%	80 - 120
			Total Cadmium (Cd)	2016/10/08		94	%	80 - 120
			Total Chromium (Cr)	2016/10/08		95	%	80 - 120
			Total Cobalt (Co)	2016/10/08		NC	%	80 - 120
			Total Copper (Cu)	2016/10/08		87	%	80 - 120
			Total Iron (Fe)	2016/10/08		NC	%	80 - 120
			Total Lead (Pb)	2016/10/08		96	%	80 - 120
			Total Lithium (Li)	2016/10/08		NC	%	80 - 120

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AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Manganese (Mn)	2016/10/08		NC	%	80 - 120
			Total Molybdenum (Mo)	2016/10/08		NC	%	80 - 120
			Total Nickel (Ni)	2016/10/08		NC	%	80 - 120
			Total Selenium (Se)	2016/10/08		105	%	80 - 120
			Total Silver (Ag)	2016/10/08		90	%	80 - 120
			Total Strontium (Sr)	2016/10/08		NC	%	80 - 120
			Total Thallium (Tl)	2016/10/08		101	%	80 - 120
			Total Tin (Sn)	2016/10/08		95	%	80 - 120
			Total Titanium (Ti)	2016/10/08		93	%	80 - 120
			Total Uranium (U)	2016/10/08		99	%	80 - 120
			Total Vanadium (V)	2016/10/08		97	%	80 - 120
			Total Zinc (Zn)	2016/10/08		90	%	80 - 120
8423644	GS2	Spiked Blank	Total Aluminum (Al)	2016/10/08		112	%	80 - 120
			Total Antimony (Sb)	2016/10/08		99	%	80 - 120
			Total Arsenic (As)	2016/10/08		99	%	80 - 120
			Total Barium (Ba)	2016/10/08		99	%	80 - 120
			Total Beryllium (Be)	2016/10/08		98	%	80 - 120
			Total Bismuth (Bi)	2016/10/08		102	%	80 - 120
			Total Boron (B)	2016/10/08		107	%	80 - 120
			Total Cadmium (Cd)	2016/10/08		99	%	80 - 120
			Total Chromium (Cr)	2016/10/08		97	%	80 - 120
			Total Cobalt (Co)	2016/10/08		97	%	80 - 120
			Total Copper (Cu)	2016/10/08		97	%	80 - 120
			Total Iron (Fe)	2016/10/08		111	%	80 - 120
			Total Lead (Pb)	2016/10/08		95	%	80 - 120
			Total Lithium (Li)	2016/10/08		95	%	80 - 120
			Total Manganese (Mn)	2016/10/08		102	%	80 - 120
			Total Molybdenum (Mo)	2016/10/08		96	%	80 - 120
			Total Nickel (Ni)	2016/10/08		104	%	80 - 120
			Total Selenium (Se)	2016/10/08		108	%	80 - 120
			Total Silver (Ag)	2016/10/08		102	%	80 - 120
			Total Strontium (Sr)	2016/10/08		95	%	80 - 120
			Total Thallium (Tl)	2016/10/08		100	%	80 - 120
			Total Tin (Sn)	2016/10/08		99	%	80 - 120
			Total Titanium (Ti)	2016/10/08		109	%	80 - 120
			Total Uranium (U)	2016/10/08		91	%	80 - 120
			Total Vanadium (V)	2016/10/08		101	%	80 - 120
			Total Zinc (Zn)	2016/10/08		103	%	80 - 120
8423644	GS2	Method Blank	Total Aluminum (Al)	2016/10/08	<3.0		ug/L	
			Total Antimony (Sb)	2016/10/08	<0.50		ug/L	
			Total Arsenic (As)	2016/10/08	<0.10		ug/L	
			Total Barium (Ba)	2016/10/08	<1.0		ug/L	
			Total Beryllium (Be)	2016/10/08	<0.10		ug/L	
			Total Bismuth (Bi)	2016/10/08	<1.0		ug/L	
			Total Boron (B)	2016/10/08	<50		ug/L	
			Total Cadmium (Cd)	2016/10/08	<0.010		ug/L	
			Total Chromium (Cr)	2016/10/08	<1.0		ug/L	
			Total Cobalt (Co)	2016/10/08	<0.50		ug/L	
			Total Copper (Cu)	2016/10/08	<0.50		ug/L	
			Total Iron (Fe)	2016/10/08	<10		ug/L	
			Total Lead (Pb)	2016/10/08	<0.20		ug/L	
			Total Lithium (Li)	2016/10/08	<5.0		ug/L	
			Total Manganese (Mn)	2016/10/08	<1.0		ug/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Molybdenum (Mo)	2016/10/08	<1.0		ug/L	
			Total Nickel (Ni)	2016/10/08	<1.0		ug/L	
			Total Selenium (Se)	2016/10/08	<0.10		ug/L	
			Total Silicon (Si)	2016/10/08	<100		ug/L	
			Total Silver (Ag)	2016/10/08	<0.020		ug/L	
			Total Strontium (Sr)	2016/10/08	<1.0		ug/L	
			Total Thallium (Tl)	2016/10/08	<0.050		ug/L	
			Total Tin (Sn)	2016/10/08	<5.0		ug/L	
			Total Titanium (Ti)	2016/10/08	<5.0		ug/L	
			Total Uranium (U)	2016/10/08	<0.10		ug/L	
			Total Vanadium (V)	2016/10/08	<5.0		ug/L	
			Total Zinc (Zn)	2016/10/08	<5.0		ug/L	
			Total Zirconium (Zr)	2016/10/08	<0.50		ug/L	
8423644	GS2	RPD [PR4784-03]	Total Aluminum (Al)	2016/10/08	NC		%	20
			Total Antimony (Sb)	2016/10/08	NC		%	20
			Total Arsenic (As)	2016/10/08	0.56		%	20
			Total Barium (Ba)	2016/10/08	5.3		%	20
			Total Beryllium (Be)	2016/10/08	NC		%	20
			Total Bismuth (Bi)	2016/10/08	NC		%	20
			Total Boron (B)	2016/10/08	NC		%	20
			Total Cadmium (Cd)	2016/10/08	NC		%	20
			Total Chromium (Cr)	2016/10/08	NC		%	20
			Total Cobalt (Co)	2016/10/08	2.1		%	20
			Total Copper (Cu)	2016/10/08	NC		%	20
			Total Iron (Fe)	2016/10/08	0.92		%	20
			Total Lead (Pb)	2016/10/08	NC		%	20
			Total Lithium (Li)	2016/10/08	NC		%	20
			Total Manganese (Mn)	2016/10/08	2.5		%	20
			Total Molybdenum (Mo)	2016/10/08	NC		%	20
			Total Nickel (Ni)	2016/10/08	2.0		%	20
			Total Selenium (Se)	2016/10/08	NC		%	20
			Total Silicon (Si)	2016/10/08	2.5		%	20
			Total Silver (Ag)	2016/10/08	NC		%	20
			Total Strontium (Sr)	2016/10/08	0.46		%	20
			Total Thallium (Tl)	2016/10/08	NC		%	20
			Total Tin (Sn)	2016/10/08	NC		%	20
			Total Titanium (Ti)	2016/10/08	NC		%	20
			Total Uranium (U)	2016/10/08	6.0		%	20
			Total Vanadium (V)	2016/10/08	NC		%	20
			Total Zinc (Zn)	2016/10/08	NC		%	20
			Total Zirconium (Zr)	2016/10/08	NC		%	20
8424297	WFO	Matrix Spike	Total Suspended Solids	2016/10/07		111	%	80 - 120
8424297	WFO	Spiked Blank	Total Suspended Solids	2016/10/07		102	%	80 - 120
8424297	WFO	Method Blank	Total Suspended Solids	2016/10/07	<4.0		mg/L	
8424297	WFO	RPD	Total Suspended Solids	2016/10/07	NC		%	20
8424497	IW1	Matrix Spike [PR4791-01]	Nitrate plus Nitrite (N)	2016/10/05		104	%	80 - 120
8424497	IW1	Spiked Blank	Nitrate plus Nitrite (N)	2016/10/05		104	%	80 - 120
8424497	IW1	Method Blank	Nitrate plus Nitrite (N)	2016/10/05	<0.020		mg/L	
8424497	IW1	RPD [PR4791-01]	Nitrate plus Nitrite (N)	2016/10/05	NC		%	25
8424500	IW1	Matrix Spike [PR4791-01]	Nitrite (N)	2016/10/05		100	%	80 - 120
8424500	IW1	Spiked Blank	Nitrite (N)	2016/10/05		96	%	80 - 120
8424500	IW1	Method Blank	Nitrite (N)	2016/10/05	<0.0050		mg/L	
8424500	IW1	RPD [PR4791-01]	Nitrite (N)	2016/10/05	NC		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8424705	BB3	Matrix Spike	Dissolved Chloride (Cl)	2016/10/06		95	%	80 - 120
8424705	BB3	Spiked Blank	Dissolved Chloride (Cl)	2016/10/06		101	%	80 - 120
8424705	BB3	Method Blank	Dissolved Chloride (Cl)	2016/10/06	<0.50		mg/L	
8424705	BB3	RPD	Dissolved Chloride (Cl)	2016/10/06	NC		%	20
8424709	BB3	Matrix Spike	Dissolved Sulphate (SO4)	2016/10/06		NC	%	80 - 120
8424709	BB3	Spiked Blank	Dissolved Sulphate (SO4)	2016/10/06		97	%	80 - 120
8424709	BB3	Method Blank	Dissolved Sulphate (SO4)	2016/10/06	0.58, RDL=0.50		mg/L	
8424709	BB3	RPD	Dissolved Sulphate (SO4)	2016/10/06	1.1		%	20
8424712	BB3	Matrix Spike [PR4792-01]	Dissolved Chloride (Cl)	2016/10/06		99	%	80 - 120
8424712	BB3	Spiked Blank	Dissolved Chloride (Cl)	2016/10/06		94	%	80 - 120
8424712	BB3	Method Blank	Dissolved Chloride (Cl)	2016/10/06	<0.50		mg/L	
8424712	BB3	RPD [PR4792-01]	Dissolved Chloride (Cl)	2016/10/06	0.77		%	20
8424715	BB3	Matrix Spike [PR4792-01]	Dissolved Sulphate (SO4)	2016/10/06		104	%	80 - 120
8424715	BB3	Spiked Blank	Dissolved Sulphate (SO4)	2016/10/06		92	%	80 - 120
8424715	BB3	Method Blank	Dissolved Sulphate (SO4)	2016/10/06	<0.50		mg/L	
8424715	BB3	RPD [PR4792-01]	Dissolved Sulphate (SO4)	2016/10/06	2.4		%	20
8424857	DC6	Matrix Spike	Total Ammonia (N)	2016/10/06		NC	%	80 - 120
8424857	DC6	Spiked Blank	Total Ammonia (N)	2016/10/06		101	%	80 - 120
8424857	DC6	Method Blank	Total Ammonia (N)	2016/10/06	<0.0050		mg/L	
8424857	DC6	RPD	Total Ammonia (N)	2016/10/06	1.4		%	20
8424862	DC6	Matrix Spike	Total Ammonia (N)	2016/10/06		118	%	80 - 120
8424862	DC6	Spiked Blank	Total Ammonia (N)	2016/10/06		102	%	80 - 120
8424862	DC6	Method Blank	Total Ammonia (N)	2016/10/06	<0.0050		mg/L	
8424862	DC6	RPD	Total Ammonia (N)	2016/10/06	NC		%	20
8425180	IC4	Spiked Blank	Dissolved Phosphorus (P)	2016/10/06		110	%	80 - 120
8425180	IC4	Method Blank	Dissolved Phosphorus (P)	2016/10/06	<0.0050		mg/L	
8425180	IC4	RPD [PR4786-08]	Dissolved Phosphorus (P)	2016/10/06	NC		%	20
8428538	EL2	Matrix Spike [PR4788-04]	Total Mercury (Hg)	2016/10/11		99	%	80 - 120
8428538	EL2	Spiked Blank	Total Mercury (Hg)	2016/10/11		97	%	80 - 120
8428538	EL2	Method Blank	Total Mercury (Hg)	2016/10/11	<0.010		ug/L	
8428538	EL2	RPD [PR4788-04]	Total Mercury (Hg)	2016/10/11	NC		%	20
8428799	EL2	Matrix Spike [PR4784-06]	Dissolved Mercury (Hg)	2016/10/11		100	%	80 - 120
8428799	EL2	Spiked Blank	Dissolved Mercury (Hg)	2016/10/11		99	%	80 - 120
8428799	EL2	Method Blank	Dissolved Mercury (Hg)	2016/10/11	<0.010		ug/L	
8428799	EL2	RPD [PR4784-06]	Dissolved Mercury (Hg)	2016/10/11	NC		%	20
8429146	BB3	Matrix Spike	Dissolved Sulphate (SO4)	2016/10/11		100	%	80 - 120
8429146	BB3	Spiked Blank	Dissolved Sulphate (SO4)	2016/10/11		91	%	80 - 120
8429146	BB3	Method Blank	Dissolved Sulphate (SO4)	2016/10/11	<0.50		mg/L	
8429146	BB3	RPD	Dissolved Sulphate (SO4)	2016/10/11	NC		%	20
8429724	CK	Spiked Blank	Dissolved Phosphorus (P)	2016/10/12		97	%	80 - 120
8429724	CK	Method Blank	Dissolved Phosphorus (P)	2016/10/12	<0.0050		mg/L	
8429771	AD5	Matrix Spike	Dissolved Manganese (Mn)	2016/10/12		NC	%	80 - 120
8429771	AD5	Spiked Blank	Dissolved Manganese (Mn)	2016/10/12		102	%	80 - 120
8429771	AD5	Method Blank	Dissolved Manganese (Mn)	2016/10/12	<1.0		ug/L	
8430231	CK	Spiked Blank	Orthophosphate (P)	2016/10/12		96	%	80 - 120
8430231	CK	Method Blank	Orthophosphate (P)	2016/10/12	<0.0050		mg/L	
8437255	CK	Matrix Spike	Total Ammonia (N)	2016/10/18		NC	%	80 - 120
8437255	CK	Spiked Blank	Total Ammonia (N)	2016/10/18		96	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8437255	CK	Method Blank	Total Ammonia (N)	2016/10/18	<0.0050		mg/L	

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Blank Spike outside acceptance criteria (10% of analytes failure allowed).

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Andy Lu, Ph.D., P.Chem., Scientific Specialist

David Huang, M.Sc., P.Chem., QP, Scientific Services Manager

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Chain Of Custody Record

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B687153_COC

INVOICE TO:

Company Name: #12411 AFRICAN QUEEN MINES LTD.
Contact Name: Linda Dandy
Address: 1153 56TH STREET BOX 19040, DELTA BC V4L 2P8
Phone: (604) 240-7676 x Fax:
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Company Name:
Contact Name:
Address:
Phone: Fax:
Email:

Project Information

Quotation #: B61210
P.O. #:
Project #:
Project Name: YJ
Site #:
Sampled By: LINDA DANDY

Laboratory Use Only

Maxxam Job #: B687153
Bottle Order #: 506921
Chain Of Custody Record: C#506921-01-01
Project Manager: Veronica De Guzman

RECEIVED IN WHITEHORSE
BY: Shyamo@1330
2016-10-03
TEMP: cooler # 1 3 2→1 / 3 3 3.3 2

Regulatory Criteria

Special Instructions: See comments: Lab to filter & preserve these not done in field

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number:
(call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	EC, pH, ALK, F	Cl, SO4, N+N, TURB	TSS	NH4	TOTAL D. PHOS	ORTHOPHOSPHATE	TOTAL METALS W/ CV Hg	DISSOLVED METALS,WITH CV Hg	# of Bottles	Comments
1		MW09-01D	OCT2/16	1520	H2O	N	N	✓	✓	✓	✓	✓	✓	✓	✓	8	
2		MW09-2D	OCT1/16	1300	H2O												
3		MW09-2S	OCT1/16	1350	H2O												NOTE: DISS Hg - not filtered, preserv. rinsed out
4		MW09-3	OCT2/16	1410	H2O												
5		FIELD BLANK MW	OCT1/16	1230	H2O												
6		DUPLICATE MW	OCT1/16	1320	H2O											↓	
7		BGC06-04	OCT 2	1310	H2O											8/7	NOTE DID NOT FILTER DISS MET, PHOS OR DISS Hg - PRESERV. RINSED OUT
8		BGC06-02	OCT1/16	1705	H2O											8/7	
9		MW09-4S	OCT1/16	1030	H2O											7	NOTE NOT FIELD FILTERED. PRESERVE RINSED OUT. DISS MET, PHOS, DISS Hg
10		MW09-4D	OCT1/16	1130	H2O	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	7	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Linda Dandy	16/10/03	900	Maurel Berthier	2016/10/04	13:35	

Lab Use Only

Time Sensitive	Temperature (°C) on Receipt	Custody Seal Present on Cooler?
☐	1.3 2 / 2.1 2	☐ Yes ☐ No

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Maxxam Yellow: Client

Maxxam Analytics International Corporation o/a Maxxam Analytics

Maxxam
A Bureau Veritas Group Company

Success Through Science®

Your Project #: YJ
Your C.O.C. #: 506927-01-01

Attention:Linda Dandy

AFRICAN QUEEN MINES LTD.
1153 56TH STREET
BOX 19040
DELTA, BC
CANADA V4L 2P8

Report Date: 2016/10/12
Report #: R2280977
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B687201
Received: 2016/10/03, 13:30

Sample Matrix: Water
Samples Received: 7

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	7	2016/10/05	2016/10/05	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	7	N/A	2016/10/11	BBY6SOP-00011	SM 22 4500-Cl- E m
Fluoride - Mining Clients	7	N/A	2016/10/06	BBY6SOP-00048	SM 22 4500-F C m
Hardness (calculated as CaCO3)	7	N/A	2016/10/07	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAF	7	N/A	2016/10/11	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Bromide as Bromine (Br) by ICPMS	7	N/A	2016/10/12	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	7	N/A	2016/10/07	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	5	N/A	2016/10/06	BBY7SOP-00002	EPA 6020B R2 m
Elements by CRC ICPMS (dissolved)	2	N/A	2016/10/07	BBY7SOP-00002	EPA 6020B R2 m
Nitrate + Nitrite (N)	7	N/A	2016/10/05	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	7	N/A	2016/10/05	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	7	N/A	2016/10/06	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	7	N/A	2016/10/05	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	7	N/A	2016/10/05	BBY6SOP-00026	SM 22 4500-H+ B m
Sulphate by Automated Colourimetry	7	N/A	2016/10/11	BBY6SOP-00017	SM 22 4500-SO42- E m

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Veronica De Guzman, Project Manager
Email: VDeGuzman@maxxam.ca
Phone# (604) 734 7276

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Maxxam Job #: B687201
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		PR5289	PR5290		PR5291	PR5292		
Sampling Date		2016/10/01 15:10	2016/10/01 15:45		2016/10/01 15:55	2016/10/01 16:15		
COC Number		506927-01-01	506927-01-01		506927-01-01	506927-01-01		
	UNITS	YJ-BIN#1	YJ-BIN#2	QC Batch	YJ-BIN#3	YJ-BIN#4	RDL	QC Batch
Misc. Inorganics								
Fluoride (F)	mg/L	0.140	0.230	8424649	0.190	0.160	0.010	8424649
ANIONS								
Nitrite (N)	mg/L	<0.0050 (1)	<0.0050 (1)	8424500	<0.0050 (1)	<0.0050 (1)	0.0050	8424509
Calculated Parameters								
Filter and HNO3 Preservation	N/A	FIELD	FIELD	ONSITE	FIELD	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.970	<0.020	8421520	0.033	0.037	0.020	8421520
Misc. Inorganics								
Alkalinity (Total as CaCO3)	mg/L	118	125	8423400	133	122	0.50	8423393
Alkalinity (PP as CaCO3)	mg/L	0.83	<0.50	8423400	<0.50	0.72	0.50	8423393
Bicarbonate (HCO3)	mg/L	142	152	8423400	162	147	0.50	8423393
Carbonate (CO3)	mg/L	1.00	<0.50	8423400	<0.50	0.86	0.50	8423393
Hydroxide (OH)	mg/L	<0.50	<0.50	8423400	<0.50	<0.50	0.50	8423393
Anions								
Dissolved Sulphate (SO4)	mg/L	2.54	2.10	8429130	3.41	11.5	0.50	8429130
Dissolved Chloride (Cl)	mg/L	1.3	1.9	8429129	4.3	1.5	0.50	8429129
Nutrients								
Nitrate plus Nitrite (N)	mg/L	0.970 (1)	<0.020 (1)	8424497	0.033 (1)	0.037 (1)	0.020	8424506
Physical Properties								
pH	pH	8.32	8.19	8423401	8.22	8.31		8423396

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past recommended hold time.

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Maxxam Job #: B687201
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		PR5293		PR5294		PR5295		
Sampling Date		2016/10/01 16:20		2016/10/01 16:30		2016/10/01 16:05		
COC Number		506927-01-01		506927-01-01		506927-01-01		
	UNITS	YJ-BIN#5	QC Batch	FIELD BLANK FB	QC Batch	DUPLICATE FB	RDL	QC Batch
Misc. Inorganics								
Fluoride (F)	mg/L	0.150	8424649	<0.010	8424649	0.160	0.010	8424649
ANIONS								
Nitrite (N)	mg/L	<0.0050 (1)	8424500	<0.0050 (1)	8424500	<0.0050 (1)	0.0050	8424509
Calculated Parameters								
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	0.292	8421520	<0.020	8421520	0.042	0.020	8421520
Misc. Inorganics								
Alkalinity (Total as CaCO3)	mg/L	103	8423400	<0.50	8423393	123	0.50	8423393
Alkalinity (PP as CaCO3)	mg/L	<0.50	8423400	<0.50	8423393	<0.50	0.50	8423393
Bicarbonate (HCO3)	mg/L	126	8423400	<0.50	8423393	150	0.50	8423393
Carbonate (CO3)	mg/L	<0.50	8423400	<0.50	8423393	<0.50	0.50	8423393
Hydroxide (OH)	mg/L	<0.50	8423400	<0.50	8423393	<0.50	0.50	8423393
Anions								
Dissolved Sulphate (SO4)	mg/L	180	8429130	<0.50	8429130	11.3	0.50	8429130
Dissolved Chloride (Cl)	mg/L	1.3	8429129	<0.50	8429129	1.6	0.50	8429129
Nutrients								
Nitrate plus Nitrite (N)	mg/L	0.292 (1)	8424497	<0.020 (1)	8424497	0.042 (1)	0.020	8424506
Physical Properties								
pH	pH	8.18	8423401	5.78	8423396	8.32		8423396

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample analysed past recommended hold time.

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Maxxam Job #: B687201
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		PR5289	PR5290	PR5291	PR5292	PR5293	PR5294		
Sampling Date		2016/10/01 15:10	2016/10/01 15:45	2016/10/01 15:55	2016/10/01 16:15	2016/10/01 16:20	2016/10/01 16:30		
COC Number		506927-01-01	506927-01-01	506927-01-01	506927-01-01	506927-01-01	506927-01-01		
	UNITS	YJ-BIN#1	YJ-BIN#2	YJ-BIN#3	YJ-BIN#4	YJ-BIN#5	FIELD BLANK FB	RDL	QC Batch
ANIONS									
Bromide (Br)	mg/L	<0.010	<0.010	0.020	<0.010	<0.010	<0.010	0.010	8431163
RDL = Reportable Detection Limit									

Maxxam ID		PR5295		
Sampling Date		2016/10/01 16:05		
COC Number		506927-01-01		
	UNITS	DUPLICATE FB	RDL	QC Batch
ANIONS				
Bromide (Br)	mg/L	<0.010	0.010	8431163
RDL = Reportable Detection Limit				

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Maxxam Job #: B687201
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR5289	PR5290	PR5291	PR5292	PR5293	PR5294		
Sampling Date		2016/10/01 15:10	2016/10/01 15:45	2016/10/01 15:55	2016/10/01 16:15	2016/10/01 16:20	2016/10/01 16:30		
COC Number		506927-01-01	506927-01-01	506927-01-01	506927-01-01	506927-01-01	506927-01-01		
	UNITS	YJ-BIN#1	YJ-BIN#2	YJ-BIN#3	YJ-BIN#4	YJ-BIN#5	FIELD BLANK FB	RDL	QC Batch
Misc. Inorganics									
Dissolved Hardness (CaCO3)	mg/L	108	121	139	125	287	<0.50	0.50	8422091
Elements									
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8428763
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	3.0	8423365
Dissolved Antimony (Sb)	ug/L	1.70	1.64	1.87	1.04	7.88	<0.50	0.50	8423365
Dissolved Arsenic (As)	ug/L	1.74	1.06	3.95	2.32	7.63	<0.10	0.10	8423365
Dissolved Barium (Ba)	ug/L	20.7	36.6	25.1	31.0	39.8	<1.0	1.0	8423365
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	8423365
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	8423365
Dissolved Boron (B)	ug/L	<50	<50	<50	<50	<50	<50	50	8423365
Dissolved Cadmium (Cd)	ug/L	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	8423365
Dissolved Chromium (Cr)	ug/L	9.4	158	593	23.6	1.0	<1.0	1.0	8423365
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8423365
Dissolved Copper (Cu)	ug/L	<0.20	<0.20	<0.20	0.23	0.73	<0.20	0.20	8423365
Dissolved Iron (Fe)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8423365
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8423365
Dissolved Lithium (Li)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8423365
Dissolved Manganese (Mn)	ug/L	<1.0	2.5	1.1	<1.0	<1.0	<1.0	1.0	8423365
Dissolved Molybdenum (Mo)	ug/L	2.0	3.6	3.2	7.0	237	<1.0	1.0	8423365
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	2.2	<1.0	<1.0	<1.0	1.0	8423365
Dissolved Selenium (Se)	ug/L	<0.10	0.25	0.71	2.58	12.4	<0.10	0.10	8423365
Dissolved Silicon (Si)	ug/L	4730	6020	8040	4840	5050	<100	100	8423365
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	8423365
Dissolved Strontium (Sr)	ug/L	106	165	92.3	139	246	<1.0	1.0	8423365
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	8423365
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8423365
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8423365
Dissolved Uranium (U)	ug/L	0.65	0.89	0.99	0.90	13.7	<0.10	0.10	8423365
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	68.8	<5.0	5.0	8423365
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	8423365
RDL = Reportable Detection Limit									

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Maxxam Job #: B687201
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR5289	PR5290	PR5291	PR5292	PR5293	PR5294		
Sampling Date		2016/10/01 15:10	2016/10/01 15:45	2016/10/01 15:55	2016/10/01 16:15	2016/10/01 16:20	2016/10/01 16:30		
COC Number		506927-01-01	506927-01-01	506927-01-01	506927-01-01	506927-01-01	506927-01-01		
	UNITS	**YJ-BIN#1**	**YJ-BIN#2**	**YJ-BIN#3**	**YJ-BIN#4**	**YJ-BIN#5**	**FIELD BLANK FB**	**RDL**	**QC Batch**
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8423365
Dissolved Calcium (Ca)	mg/L	4.92	10.7	22.6	10.1	14.8	<0.050	0.050	8420934
Dissolved Magnesium (Mg)	mg/L	23.1	22.8	20.1	24.2	60.6	<0.050	0.050	8420934
Dissolved Potassium (K)	mg/L	1.14	0.756	0.401	1.27	2.58	<0.050	0.050	8420934
Dissolved Sodium (Na)	mg/L	4.27	2.62	0.649	3.87	7.35	<0.050	0.050	8420934
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	<3.0	3.8	66.0	<3.0	3.0	8420934
RDL = Reportable Detection Limit									

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Maxxam Job #: B687201
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR5295		
Sampling Date		2016/10/01 16:05		
COC Number		506927-01-01		
	UNITS	DUPLICATE FB	RDL	QC Batch
Misc. Inorganics				
Dissolved Hardness (CaCO3)	mg/L	120	0.50	8422091
Elements				
Dissolved Mercury (Hg)	ug/L	<0.010	0.010	8428763
Dissolved Metals by ICPMS				
Dissolved Aluminum (Al)	ug/L	<3.0	3.0	8423365
Dissolved Antimony (Sb)	ug/L	1.01	0.50	8423365
Dissolved Arsenic (As)	ug/L	2.33	0.10	8423365
Dissolved Barium (Ba)	ug/L	31.6	1.0	8423365
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	8423365
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	8423365
Dissolved Boron (B)	ug/L	<50	50	8423365
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	8423365
Dissolved Chromium (Cr)	ug/L	23.1	1.0	8423365
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	8423365
Dissolved Copper (Cu)	ug/L	<0.20	0.20	8423365
Dissolved Iron (Fe)	ug/L	<5.0	5.0	8423365
Dissolved Lead (Pb)	ug/L	<0.20	0.20	8423365
Dissolved Lithium (Li)	ug/L	<5.0	5.0	8423365
Dissolved Manganese (Mn)	ug/L	<1.0	1.0	8423365
Dissolved Molybdenum (Mo)	ug/L	6.9	1.0	8423365
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	8423365
Dissolved Selenium (Se)	ug/L	2.52	0.10	8423365
Dissolved Silicon (Si)	ug/L	5200	100	8423365
Dissolved Silver (Ag)	ug/L	<0.020	0.020	8423365
Dissolved Strontium (Sr)	ug/L	149	1.0	8423365
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	8423365
Dissolved Tin (Sn)	ug/L	<5.0	5.0	8423365
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	8423365
Dissolved Uranium (U)	ug/L	0.91	0.10	8423365
Dissolved Vanadium (V)	ug/L	<5.0	5.0	8423365
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	8423365
RDL = Reportable Detection Limit				

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Maxxam Job #: B687201
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR5295		
Sampling Date		2016/10/01 16:05		
COC Number		506927-01-01		
	UNITS	**DUPLICATE FB**	**RDL**	**QC Batch**
Dissolved Zirconium (Zr)	ug/L	<0.50	0.50	8423365
Dissolved Calcium (Ca)	mg/L	10.3	0.050	8420934
Dissolved Magnesium (Mg)	mg/L	23.0	0.050	8420934
Dissolved Potassium (K)	mg/L	1.20	0.050	8420934
Dissolved Sodium (Na)	mg/L	3.60	0.050	8420934
Dissolved Sulphur (S)	mg/L	3.8	3.0	8420934
RDL = Reportable Detection Limit				

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Maxxam Job #: B687201
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

GENERAL COMMENTS

Results relate only to the items tested.

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Maxxam Job #: B687201
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8423365	AD5	Matrix Spike	Dissolved Aluminum (Al)	2016/10/06		106	%	80 - 120
			Dissolved Antimony (Sb)	2016/10/06		96	%	80 - 120
			Dissolved Arsenic (As)	2016/10/06		100	%	80 - 120
			Dissolved Barium (Ba)	2016/10/06		99	%	80 - 120
			Dissolved Beryllium (Be)	2016/10/06		100	%	80 - 120
			Dissolved Bismuth (Bi)	2016/10/06		97	%	80 - 120
			Dissolved Boron (B)	2016/10/06		105	%	80 - 120
			Dissolved Cadmium (Cd)	2016/10/06		99	%	80 - 120
			Dissolved Chromium (Cr)	2016/10/06		96	%	80 - 120
			Dissolved Cobalt (Co)	2016/10/06		95	%	80 - 120
			Dissolved Copper (Cu)	2016/10/06		98	%	80 - 120
			Dissolved Iron (Fe)	2016/10/06		107	%	80 - 120
			Dissolved Lead (Pb)	2016/10/06		97	%	80 - 120
			Dissolved Lithium (Li)	2016/10/06		99	%	80 - 120
			Dissolved Manganese (Mn)	2016/10/06		98	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/10/06		96	%	80 - 120
			Dissolved Nickel (Ni)	2016/10/06		97	%	80 - 120
			Dissolved Selenium (Se)	2016/10/06		104	%	80 - 120
			Dissolved Silver (Ag)	2016/10/06		83	%	80 - 120
			Dissolved Strontium (Sr)	2016/10/06		104	%	80 - 120
			Dissolved Thallium (Tl)	2016/10/06		105	%	80 - 120
			Dissolved Tin (Sn)	2016/10/06		99	%	80 - 120
			Dissolved Titanium (Ti)	2016/10/06		111	%	80 - 120
			Dissolved Uranium (U)	2016/10/06		98	%	80 - 120
			Dissolved Vanadium (V)	2016/10/06		95	%	80 - 120
			Dissolved Zinc (Zn)	2016/10/06		101	%	80 - 120
8423365	AD5	Spiked Blank	Dissolved Aluminum (Al)	2016/10/07		113	%	80 - 120
			Dissolved Antimony (Sb)	2016/10/07		97	%	80 - 120
			Dissolved Arsenic (As)	2016/10/07		101	%	80 - 120
			Dissolved Barium (Ba)	2016/10/07		101	%	80 - 120
			Dissolved Beryllium (Be)	2016/10/07		102	%	80 - 120
			Dissolved Bismuth (Bi)	2016/10/07		101	%	80 - 120
			Dissolved Boron (B)	2016/10/07		110	%	80 - 120
			Dissolved Cadmium (Cd)	2016/10/07		99	%	80 - 120
			Dissolved Chromium (Cr)	2016/10/07		100	%	80 - 120
			Dissolved Cobalt (Co)	2016/10/07		97	%	80 - 120
			Dissolved Copper (Cu)	2016/10/07		99	%	80 - 120
			Dissolved Iron (Fe)	2016/10/07		109	%	80 - 120
			Dissolved Lead (Pb)	2016/10/07		102	%	80 - 120
			Dissolved Lithium (Li)	2016/10/07		103	%	80 - 120
			Dissolved Manganese (Mn)	2016/10/07		103	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/10/07		98	%	80 - 120
			Dissolved Nickel (Ni)	2016/10/07		98	%	80 - 120
			Dissolved Selenium (Se)	2016/10/07		101	%	80 - 120
			Dissolved Silver (Ag)	2016/10/07		102	%	80 - 120
			Dissolved Strontium (Sr)	2016/10/07		103	%	80 - 120
			Dissolved Thallium (Tl)	2016/10/07		111	%	80 - 120
			Dissolved Tin (Sn)	2016/10/07		101	%	80 - 120
			Dissolved Titanium (Ti)	2016/10/07		112	%	80 - 120
			Dissolved Uranium (U)	2016/10/07		106	%	80 - 120
			Dissolved Vanadium (V)	2016/10/07		101	%	80 - 120
			Dissolved Zinc (Zn)	2016/10/07		105	%	80 - 120
8423365	AD5	Method Blank	Dissolved Aluminum (Al)	2016/10/06	<3.0		ug/L	

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Maxxam Job #: B687201
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Antimony (Sb)	2016/10/06	<0.50		ug/L	
			Dissolved Arsenic (As)	2016/10/06	<0.10		ug/L	
			Dissolved Barium (Ba)	2016/10/06	<1.0		ug/L	
			Dissolved Beryllium (Be)	2016/10/06	<0.10		ug/L	
			Dissolved Bismuth (Bi)	2016/10/06	<1.0		ug/L	
			Dissolved Boron (B)	2016/10/06	<50		ug/L	
			Dissolved Cadmium (Cd)	2016/10/06	<0.010		ug/L	
			Dissolved Chromium (Cr)	2016/10/06	<1.0		ug/L	
			Dissolved Cobalt (Co)	2016/10/06	<0.50		ug/L	
			Dissolved Copper (Cu)	2016/10/06	<0.20		ug/L	
			Dissolved Iron (Fe)	2016/10/06	<5.0		ug/L	
			Dissolved Lead (Pb)	2016/10/06	<0.20		ug/L	
			Dissolved Lithium (Li)	2016/10/06	<5.0		ug/L	
			Dissolved Manganese (Mn)	2016/10/06	<1.0		ug/L	
			Dissolved Molybdenum (Mo)	2016/10/06	<1.0		ug/L	
			Dissolved Nickel (Ni)	2016/10/06	<1.0		ug/L	
			Dissolved Selenium (Se)	2016/10/06	<0.10		ug/L	
			Dissolved Silicon (Si)	2016/10/06	<100		ug/L	
			Dissolved Silver (Ag)	2016/10/06	<0.020		ug/L	
			Dissolved Strontium (Sr)	2016/10/06	<1.0		ug/L	
			Dissolved Thallium (Tl)	2016/10/06	<0.050		ug/L	
			Dissolved Tin (Sn)	2016/10/06	<5.0		ug/L	
			Dissolved Titanium (Ti)	2016/10/06	<5.0		ug/L	
			Dissolved Uranium (U)	2016/10/06	<0.10		ug/L	
			Dissolved Vanadium (V)	2016/10/06	<5.0		ug/L	
			Dissolved Zinc (Zn)	2016/10/06	<5.0		ug/L	
			Dissolved Zirconium (Zr)	2016/10/06	<0.50		ug/L	
8423365	AD5	RPD	Dissolved Aluminum (Al)	2016/10/06	NC		%	20
			Dissolved Antimony (Sb)	2016/10/06	NC		%	20
			Dissolved Arsenic (As)	2016/10/06	NC		%	20
			Dissolved Barium (Ba)	2016/10/06	NC		%	20
			Dissolved Beryllium (Be)	2016/10/06	NC		%	20
			Dissolved Bismuth (Bi)	2016/10/06	NC		%	20
			Dissolved Boron (B)	2016/10/06	NC		%	20
			Dissolved Cadmium (Cd)	2016/10/06	NC		%	20
			Dissolved Chromium (Cr)	2016/10/06	NC		%	20
			Dissolved Cobalt (Co)	2016/10/06	NC		%	20
			Dissolved Copper (Cu)	2016/10/06	NC		%	20
			Dissolved Iron (Fe)	2016/10/06	NC		%	20
			Dissolved Lead (Pb)	2016/10/06	NC		%	20
			Dissolved Lithium (Li)	2016/10/06	NC		%	20
			Dissolved Manganese (Mn)	2016/10/06	NC		%	20
			Dissolved Molybdenum (Mo)	2016/10/06	NC		%	20
			Dissolved Nickel (Ni)	2016/10/06	NC		%	20
			Dissolved Selenium (Se)	2016/10/06	NC		%	20
			Dissolved Silicon (Si)	2016/10/06	NC		%	20
			Dissolved Silver (Ag)	2016/10/06	NC		%	20
			Dissolved Strontium (Sr)	2016/10/06	NC		%	20
			Dissolved Thallium (Tl)	2016/10/06	NC		%	20
			Dissolved Tin (Sn)	2016/10/06	NC		%	20
			Dissolved Titanium (Ti)	2016/10/06	NC		%	20
			Dissolved Uranium (U)	2016/10/06	NC		%	20
			Dissolved Vanadium (V)	2016/10/06	NC		%	20

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Maxxam Job #: B687201
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Zinc (Zn)	2016/10/06	NC		%	20
			Dissolved Zirconium (Zr)	2016/10/06	NC		%	20
8423393	WAY	Matrix Spike	Alkalinity (Total as CaCO3)	2016/10/05		NC	%	80 - 120
8423393	WAY	Spiked Blank	Alkalinity (Total as CaCO3)	2016/10/05		97	%	80 - 120
8423393	WAY	Method Blank	Alkalinity (Total as CaCO3)	2016/10/05	<0.50		mg/L	
			Alkalinity (PP as CaCO3)	2016/10/05	<0.50		mg/L	
			Bicarbonate (HCO3)	2016/10/05	<0.50		mg/L	
			Carbonate (CO3)	2016/10/05	<0.50		mg/L	
			Hydroxide (OH)	2016/10/05	<0.50		mg/L	
8423393	WAY	RPD	Alkalinity (Total as CaCO3)	2016/10/05	0.21		%	20
			Alkalinity (PP as CaCO3)	2016/10/05	NC		%	20
			Bicarbonate (HCO3)	2016/10/05	0.21		%	20
			Carbonate (CO3)	2016/10/05	NC		%	20
			Hydroxide (OH)	2016/10/05	NC		%	20
8423396	WAY	Spiked Blank	pH	2016/10/05		102	%	97 - 103
8423396	WAY	RPD	pH	2016/10/05	0.51		%	N/A
8423400	WAY	Matrix Spike [PR5290-01]	Alkalinity (Total as CaCO3)	2016/10/05		NC	%	80 - 120
8423400	WAY	Spiked Blank	Alkalinity (Total as CaCO3)	2016/10/05		97	%	80 - 120
8423400	WAY	Method Blank	Alkalinity (Total as CaCO3)	2016/10/05	<0.50		mg/L	
			Alkalinity (PP as CaCO3)	2016/10/05	<0.50		mg/L	
			Bicarbonate (HCO3)	2016/10/05	<0.50		mg/L	
			Carbonate (CO3)	2016/10/05	<0.50		mg/L	
			Hydroxide (OH)	2016/10/05	<0.50		mg/L	
8423400	WAY	RPD [PR5290-01]	Alkalinity (Total as CaCO3)	2016/10/05	0.91		%	20
			Alkalinity (PP as CaCO3)	2016/10/05	NC		%	20
			Bicarbonate (HCO3)	2016/10/05	0.91		%	20
			Carbonate (CO3)	2016/10/05	NC		%	20
			Hydroxide (OH)	2016/10/05	NC		%	20
8423401	WAY	Spiked Blank	pH	2016/10/05		102	%	97 - 103
8423401	WAY	RPD [PR5290-01]	pH	2016/10/05	0.97		%	N/A
8424497	IW1	Matrix Spike	Nitrate plus Nitrite (N)	2016/10/05		104	%	80 - 120
8424497	IW1	Spiked Blank	Nitrate plus Nitrite (N)	2016/10/05		104	%	80 - 120
8424497	IW1	Method Blank	Nitrate plus Nitrite (N)	2016/10/05	<0.020		mg/L	
8424497	IW1	RPD	Nitrate plus Nitrite (N)	2016/10/05	NC		%	25
8424500	IW1	Matrix Spike	Nitrite (N)	2016/10/05		100	%	80 - 120
8424500	IW1	Spiked Blank	Nitrite (N)	2016/10/05		96	%	80 - 120
8424500	IW1	Method Blank	Nitrite (N)	2016/10/05	<0.0050		mg/L	
8424500	IW1	RPD	Nitrite (N)	2016/10/05	NC		%	20
8424506	IW1	Matrix Spike [PR5292-01]	Nitrate plus Nitrite (N)	2016/10/05		103	%	80 - 120
8424506	IW1	Spiked Blank	Nitrate plus Nitrite (N)	2016/10/05		104	%	80 - 120
8424506	IW1	Method Blank	Nitrate plus Nitrite (N)	2016/10/05	<0.020		mg/L	
8424506	IW1	RPD [PR5292-01]	Nitrate plus Nitrite (N)	2016/10/05	NC		%	25
8424509	IW1	Matrix Spike [PR5292-01]	Nitrite (N)	2016/10/05		100	%	80 - 120
8424509	IW1	Spiked Blank	Nitrite (N)	2016/10/05		95	%	80 - 120
8424509	IW1	Method Blank	Nitrite (N)	2016/10/05	<0.0050		mg/L	
8424509	IW1	RPD [PR5292-01]	Nitrite (N)	2016/10/05	NC		%	20
8424649	BB3	Matrix Spike	Fluoride (F)	2016/10/06		101	%	80 - 120
8424649	BB3	Spiked Blank	Fluoride (F)	2016/10/06		104	%	80 - 120
8424649	BB3	Method Blank	Fluoride (F)	2016/10/06	<0.010		mg/L	
8424649	BB3	RPD	Fluoride (F)	2016/10/06	NC		%	20
8428763	EL2	Matrix Spike	Dissolved Mercury (Hg)	2016/10/11		92	%	80 - 120
8428763	EL2	Spiked Blank	Dissolved Mercury (Hg)	2016/10/11		91	%	80 - 120
8428763	EL2	Method Blank	Dissolved Mercury (Hg)	2016/10/11	<0.010		ug/L	

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Maxxam Job #: B687201
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8428763	EL2	RPD	Dissolved Mercury (Hg)	2016/10/11	NC		%	20
8429129	BB3	Matrix Spike [PR5290-01]	Dissolved Chloride (Cl)	2016/10/11		103	%	80 - 120
8429129	BB3	Spiked Blank	Dissolved Chloride (Cl)	2016/10/11		100	%	80 - 120
8429129	BB3	Method Blank	Dissolved Chloride (Cl)	2016/10/11	<0.50		mg/L	
8429129	BB3	RPD [PR5290-01]	Dissolved Chloride (Cl)	2016/10/11	NC		%	20
8429130	BB3	Matrix Spike [PR5290-01]	Dissolved Sulphate (SO4)	2016/10/11		101	%	80 - 120
8429130	BB3	Spiked Blank	Dissolved Sulphate (SO4)	2016/10/11		96	%	80 - 120
8429130	BB3	Method Blank	Dissolved Sulphate (SO4)	2016/10/11	0.52, RDL=0.50		mg/L	
8429130	BB3	RPD [PR5290-01]	Dissolved Sulphate (SO4)	2016/10/11	NC		%	20
8431163	JT3	Matrix Spike [PR5292-01]	Bromide (Br)	2016/10/12		98	%	78 - 120
8431163	JT3	Spiked Blank	Bromide (Br)	2016/10/12		97	%	80 - 120
8431163	JT3	Method Blank	Bromide (Br)	2016/10/12	<0.010		mg/L	

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Andy Lu, Ph.D., P.Chem., Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Maxxam Analytics International Corporation o/a Maxxam Analytics
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B687201_COC

Page 1 of 1

Bottle Order #: 506927

INVOICE TO:
Company Name: #12411 AFRICAN QUEEN MINES LTD.
Contact Name: Linda Dandy
Address: 1153 56TH STREET BOX 19040, DELTA BC V4L 2P8
Phone: (604) 240-7676 x Fax:
Email: lindadandy@telus.net

Report Information
Company Name:
Contact Name:
Address:
Phone: Fax:
Email:

Project Information
Quotation #: B61210
P.O. #:
Project #:
Project Name: YJ
Site #:
Sampled By: LINDA DANDY

Chain Of Custody Record: C#506927-01-01
Project Manager: Veronica De Guzman

Regulatory Criteria

Special Instructions

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam

Analysis Requested

Turnaround Time (TAT) Required
Please provide advance notice for rush projects
Regular (Standard) TAT
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.
Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number: (call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	pH, ALK, F	Cl, SO4, NITRATE, NITRITE	DISSOLVED METALS WITH CV Hg.	BROMIDE	# of Bottles	Comments
1		YJ-BIN#1	OCT 1/16	1510	H2O Leachate	N	Y	✓	✓	✓	✓	3	RECEIVED IN WHITEHORSE
2		YJ-BIN#2		1545		N	Y						BY: Shyama @ 1330
3		YJ-BIN#3		1555		N	Y						2016-10-03
4		YJ-BIN#4		1615		N	Y						cooler # TEMP: 3 / 2 / 3 → 1
5		YJ-BIN#5		1620		N	Y						
6		FIELD BLANK FB		1630	H2O	N	Y						
7		DUPLICATE FB		1605	H2O Leachate	N	Y						
8													
9													
10													

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Linda Dandy	16/10/03	900	Laurel DeHaer	2016/10/04	13:35	

Lab Use Only
Time Sensitive: ☐
Temperature (°C) on Receipt: 2 | 2
Custody Seal Intact on Cooler? ☐ Yes ☐ No

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Maxxam Yellow: Client

Maxxam Analytics International Corporation o/a Maxxam Analytics

Maxxam
A Bureau Veritas Group Company

Success Through Science®

Your Project #: YJ
Your C.O.C. #: 506926-01-01

Attention:Linda Dandy

AFRICAN QUEEN MINES LTD.
1153 56TH STREET
BOX 19040
DELTA, BC
CANADA V4L 2P8

Report Date: 2016/10/12
Report #: R2280979
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B687579
Received: 2016/10/03, 13:30

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity - Water	6	2016/10/05	2016/10/06	BBY6SOP-00026	SM 22 2320 B m
Chloride by Automated Colourimetry	6	N/A	2016/10/06	BBY6SOP-00011	SM 22 4500-Cl- E m
Conductance - water	6	N/A	2016/10/06	BBY6SOP-00026	SM 22 2510 B m
Fluoride - Mining Clients	6	N/A	2016/10/07	BBY6SOP-00048	SM 22 4500-F C m
Hardness Total (calculated as CaCO3)	6	N/A	2016/10/07	BBY WI-00033	Auto Calc
Hardness (calculated as CaCO3)	6	N/A	2016/10/07	BBY WI-00033	Auto Calc
Mercury (Dissolved) by CVAF	6	N/A	2016/10/11	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Mercury (Total) by CVAF	6	2016/10/11	2016/10/11	BBY7SOP-00015	BCMOE BCLM Oct2013 m
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	6	N/A	2016/10/07	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (dissolved)	6	N/A	2016/10/07	BBY7SOP-00002	EPA 6020B R2 m
Na, K, Ca, Mg, S by CRC ICPMS (total)	6	2016/10/05	2016/10/07	BBY7SOP-00002	EPA 6020A R1 m
Elements by CRC ICPMS (total)	5	2016/10/06	2016/10/06	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Elements by CRC ICPMS (total)	1	2016/10/06	2016/10/07	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Ammonia-N (Preserved)	6	N/A	2016/10/06	BBY6SOP-00009	SM 22 4500-NH3- G m
Nitrate + Nitrite (N)	6	N/A	2016/10/05	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrite (N) by CFA	6	N/A	2016/10/05	BBY6SOP-00010	SM 22 4500-NO3- I m
Nitrogen - Nitrate (as N)	6	N/A	2016/10/06	BBY6SOP-00010	SM 22 4500-NO3 I m
Filter and HNO3 Preserve for Metals	2	N/A	2016/10/06	BBY7 WI-00004	BCMOE Reqs 08/14
Filter and HNO3 Preserve for Metals	4	N/A	2016/10/07	BBY7 WI-00004	BCMOE Reqs 08/14
pH Water (1)	6	N/A	2016/10/06	BBY6SOP-00026	SM 22 4500-H+ B m
Orthophosphate by Konelab	6	N/A	2016/10/05	BBY6SOP-00013	SM 22 4500-P E m
Sulphate by Automated Colourimetry	6	N/A	2016/10/06	BBY6SOP-00017	SM 22 4500-SO42- E m
Phosphorus-P (Total, dissolved) - FF/FP	5	2016/10/06	2016/10/06	BBY6SOP-00013	SM 22 4500-P E m
Phosphorus-P (LL Tot, dissolved) - UF/UP	1	2016/10/05	2016/10/05	BBY6SOP-00013	SM 22 4500-P E m
Total Suspended Solids	6	2016/10/06	2016/10/07	BBY6SOP-00034	SM 22 2540 D
Turbidity	6	N/A	2016/10/05	BBY6SOP-00027	SM 22 2130 B m

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Maxxam Analytics International Corporation o/a Maxxam Analytics Burnaby: 4606 Canada Way V5G 1K5 Telephone(604) 734-7276 Fax(604) 731-2386

Your Project #: YJ
Your C.O.C. #: 506926-01-01

Attention:Linda Dandy

AFRICAN QUEEN MINES LTD.
1153 56TH STREET
BOX 19040
DELTA, BC
CANADA V4L 2P8

Report Date: 2016/10/12
Report #: R2280979
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B687579
Received: 2016/10/03, 13:30

(1) The BC-MOE and APHA Standard Method require pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the BC-MOE/APHA Standard Method holding time.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Veronica De Guzman, Project Manager
Email: VDeGuzman@maxxam.ca
Phone# (604) 734 7276

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B687579
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		PR7245	PR7246			PR7247		
Sampling Date		2016/10/02 10:45	2016/10/02 10:05			2016/10/02 17:00		
COC Number		506926-01-01	506926-01-01			506926-01-01		
	UNITS	PC-1	PC-2	RDL	QC Batch	PC-5	RDL	QC Batch
Misc. Inorganics								
Fluoride (F)	mg/L	0.750	0.730	0.010	8426251	0.650	0.010	8426251
ANIONS								
Nitrite (N)	mg/L	<0.0050	<0.0050	0.0050	8424577	<0.0050	0.0050	8424577
Calculated Parameters								
Filter and HNO3 Preservation	N/A	FIELD	FIELD	N/A	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	<0.020	<0.020	0.020	8422572	<0.020	0.020	8422572
Misc. Inorganics								
Alkalinity (Total as CaCO3)	mg/L	44.0	45.8	0.50	8423552	56.3	0.50	8423552
Alkalinity (PP as CaCO3)	mg/L	<0.50	<0.50	0.50	8423552	<0.50	0.50	8423552
Bicarbonate (HCO3)	mg/L	53.7	55.9	0.50	8423552	68.6	0.50	8423552
Carbonate (CO3)	mg/L	<0.50	<0.50	0.50	8423552	<0.50	0.50	8423552
Hydroxide (OH)	mg/L	<0.50	<0.50	0.50	8423552	<0.50	0.50	8423552
Anions								
Dissolved Sulphate (SO4)	mg/L	4.89	5.31	0.50	8424775	6.14	0.50	8424775
Dissolved Chloride (Cl)	mg/L	0.71	0.72	0.50	8424769	0.70	0.50	8424769
Nutrients								
Orthophosphate (P)	mg/L	0.0104	0.0106	0.0050	8423574	0.0088	0.0050	8423574
Dissolved Phosphorus (P)	mg/L	<0.0050	<0.0050	0.0050	8425180	0.0113	0.0020	8423101
Total Ammonia (N)	mg/L	0.037	0.014	0.0050	8424864	0.029	0.0050	8424864
Nitrate plus Nitrite (N)	mg/L	<0.020	<0.020	0.020	8424576	<0.020	0.020	8424576
Physical Properties								
Conductivity	uS/cm	97.9	104	1.0	8423554	131	1.0	8423554
pH	pH	7.88	7.91		8423553	8.00		8423553
Physical Properties								
Total Suspended Solids	mg/L	<4.0	<4.0	4.0	8424302	<4.0	4.0	8424302
Turbidity	NTU	4.78	3.88	0.10	8423130	3.46	0.10	8423130

RDL = Reportable Detection Limit
N/A = Not Applicable

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Maxxam Job #: B687579
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		PR7248		PR7249		PR7250		
Sampling Date		2016/10/02 11:45		2016/10/02 12:00		2016/10/02 11:00		
COC Number		506926-01-01		506926-01-01		506926-01-01		
	UNITS	PC-6	QC Batch	FIELD BLANK PC	QC Batch	DUPLICATE PC	RDL	QC Batch
Misc. Inorganics								
Fluoride (F)	mg/L	0.730	8426251	<0.010	8426251	0.720	0.010	8426251
ANIONS								
Nitrite (N)	mg/L	0.0059	8424577	<0.0050	8424573	<0.0050	0.0050	8424577
Calculated Parameters								
Filter and HNO3 Preservation	N/A	FIELD	ONSITE	FIELD	ONSITE	FIELD	N/A	ONSITE
Nitrate (N)	mg/L	<0.020	8422572	<0.020	8422572	<0.020	0.020	8422572
Misc. Inorganics								
Alkalinity (Total as CaCO3)	mg/L	45.3	8423552	0.81	8423538	42.6	0.50	8423538
Alkalinity (PP as CaCO3)	mg/L	<0.50	8423552	<0.50	8423538	<0.50	0.50	8423538
Bicarbonate (HCO3)	mg/L	55.3	8423552	0.99	8423538	52.0	0.50	8423538
Carbonate (CO3)	mg/L	<0.50	8423552	<0.50	8423538	<0.50	0.50	8423538
Hydroxide (OH)	mg/L	<0.50	8423552	<0.50	8423538	<0.50	0.50	8423538
Anions								
Dissolved Sulphate (SO4)	mg/L	5.55	8424775	0.67	8424775	5.05	0.50	8424775
Dissolved Chloride (Cl)	mg/L	0.52	8424769	<0.50	8424769	0.61	0.50	8424769
Nutrients								
Orthophosphate (P)	mg/L	0.0114	8423574	<0.0050	8423375	0.0093	0.0050	8423574
Dissolved Phosphorus (P)	mg/L	<0.0050	8425180	0.0082	8425180	<0.0050	0.0050	8425180
Total Ammonia (N)	mg/L	0.025	8424864	<0.0050	8424864	0.024	0.0050	8424857
Nitrate plus Nitrite (N)	mg/L	<0.020	8424576	<0.020	8424572	<0.020	0.020	8424576
Physical Properties								
Conductivity	uS/cm	99.8	8423554	<1.0	8423542	98.0	1.0	8423542
pH	pH	7.84	8423553	5.90	8423541	7.82		8423541
Physical Properties								
Total Suspended Solids	mg/L	<4.0	8424302	<4.0	8424302	<4.0	4.0	8424302
Turbidity	NTU	5.69	8423130	<0.10	8423130	4.16	0.10	8423130

RDL = Reportable Detection Limit
N/A = Not Applicable

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Maxxam Job #: B687579
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR7245	PR7246		PR7247	PR7248	PR7249		
Sampling Date		2016/10/02 10:45	2016/10/02 10:05		2016/10/02 17:00	2016/10/02 11:45	2016/10/02 12:00		
COC Number		506926-01-01	506926-01-01		506926-01-01	506926-01-01	506926-01-01		
	UNITS	PC-1	PC-2	QC Batch	PC-5	PC-6	FIELD BLANK PC	RDL	QC Batch
Misc. Inorganics									
Dissolved Hardness (CaCO3)	mg/L	44.2	47.3	8422516	60.6	45.2	<0.50	0.50	8422516
Elements									
Dissolved Mercury (Hg)	ug/L	<0.010	<0.010	8428763	<0.010	<0.010	<0.010	0.010	8428799
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	3.1	3.0	8424103	<3.0	3.6	<3.0	3.0	8424103
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	8424103	<0.50	<0.50	<0.50	0.50	8424103
Dissolved Arsenic (As)	ug/L	0.60	0.60	8424103	0.54	0.62	<0.10	0.10	8424103
Dissolved Barium (Ba)	ug/L	15.1	15.5	8424103	17.0	15.3	<1.0	1.0	8424103
Dissolved Beryllium (Be)	ug/L	<0.10	<0.10	8424103	<0.10	<0.10	<0.10	0.10	8424103
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	8424103	<1.0	<1.0	<1.0	1.0	8424103
Dissolved Boron (B)	ug/L	<50	<50	8424103	<50	<50	<50	50	8424103
Dissolved Cadmium (Cd)	ug/L	0.010	<0.010	8424103	<0.010	<0.010	<0.010	0.010	8424103
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	8424103	<1.0	<1.0	<1.0	1.0	8424103
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	8424103	<0.50	<0.50	<0.50	0.50	8424103
Dissolved Copper (Cu)	ug/L	0.77	0.75	8424103	0.66	0.82	<0.20	0.20	8424103
Dissolved Iron (Fe)	ug/L	6.4	7.7	8424103	7.2	7.5	<5.0	5.0	8424103
Dissolved Lead (Pb)	ug/L	<0.20	<0.20	8424103	<0.20	<0.20	<0.20	0.20	8424103
Dissolved Lithium (Li)	ug/L	<5.0	<5.0	8424103	<5.0	<5.0	<5.0	5.0	8424103
Dissolved Manganese (Mn)	ug/L	2.3	2.3	8424103	1.9	2.3	<1.0	1.0	8424103
Dissolved Molybdenum (Mo)	ug/L	2.6	2.6	8424103	2.4	2.8	<1.0	1.0	8424103
Dissolved Nickel (Ni)	ug/L	1.9	2.0	8424103	1.8	1.9	<1.0	1.0	8424103
Dissolved Selenium (Se)	ug/L	<0.10	<0.10	8424103	<0.10	<0.10	<0.10	0.10	8424103
Dissolved Silicon (Si)	ug/L	3300	3390	8424103	3500	3400	<100	100	8424103
Dissolved Silver (Ag)	ug/L	<0.020	<0.020	8424103	<0.020	<0.020	<0.020	0.020	8424103
Dissolved Strontium (Sr)	ug/L	31.9	33.6	8424103	40.5	34.5	<1.0	1.0	8424103
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	8424103	<0.050	<0.050	<0.050	0.050	8424103
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	8424103	<5.0	<5.0	<5.0	5.0	8424103
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	8424103	<5.0	<5.0	<5.0	5.0	8424103
Dissolved Uranium (U)	ug/L	2.06	2.00	8424103	1.90	2.15	<0.10	0.10	8424103
Dissolved Vanadium (V)	ug/L	<5.0	<5.0	8424103	<5.0	<5.0	<5.0	5.0	8424103
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	8424103	<5.0	<5.0	<5.0	5.0	8424103
RDL = Reportable Detection Limit									

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Maxxam Job #: B687579
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AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR7245	PR7246		PR7247	PR7248	PR7249		
Sampling Date		2016/10/02 10:45	2016/10/02 10:05		2016/10/02 17:00	2016/10/02 11:45	2016/10/02 12:00		
COC Number		506926-01-01	506926-01-01		506926-01-01	506926-01-01	506926-01-01		
	UNITS	PC-1	PC-2	QC Batch	PC-5	PC-6	FIELD BLANK PC	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	<0.50	<0.50	8424103	<0.50	<0.50	<0.50	0.50	8424103
Dissolved Calcium (Ca)	mg/L	10.2	10.8	8422517	14.4	10.5	<0.050	0.050	8422517
Dissolved Magnesium (Mg)	mg/L	4.51	4.93	8422517	5.95	4.61	<0.050	0.050	8422517
Dissolved Potassium (K)	mg/L	0.634	0.626	8422517	0.613	0.631	<0.050	0.050	8422517
Dissolved Sodium (Na)	mg/L	1.80	1.93	8422517	1.78	1.89	<0.050	0.050	8422517
Dissolved Sulphur (S)	mg/L	<3.0	<3.0	8422517	<3.0	<3.0	<3.0	3.0	8422517
RDL = Reportable Detection Limit									

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Maxxam Job #: B687579
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR7250		
Sampling Date		2016/10/02 11:00		
COC Number		506926-01-01		
	UNITS	DUPLICATE PC	RDL	QC Batch
Misc. Inorganics				
Dissolved Hardness (CaCO3)	mg/L	44.5	0.50	8422516
Elements				
Dissolved Mercury (Hg)	ug/L	<0.010	0.010	8428799
Dissolved Metals by ICPMS				
Dissolved Aluminum (Al)	ug/L	3.3	3.0	8424103
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	8424103
Dissolved Arsenic (As)	ug/L	0.61	0.10	8424103
Dissolved Barium (Ba)	ug/L	15.3	1.0	8424103
Dissolved Beryllium (Be)	ug/L	<0.10	0.10	8424103
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	8424103
Dissolved Boron (B)	ug/L	<50	50	8424103
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	8424103
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	8424103
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	8424103
Dissolved Copper (Cu)	ug/L	0.75	0.20	8424103
Dissolved Iron (Fe)	ug/L	6.9	5.0	8424103
Dissolved Lead (Pb)	ug/L	<0.20	0.20	8424103
Dissolved Lithium (Li)	ug/L	<5.0	5.0	8424103
Dissolved Manganese (Mn)	ug/L	2.3	1.0	8424103
Dissolved Molybdenum (Mo)	ug/L	2.8	1.0	8424103
Dissolved Nickel (Ni)	ug/L	1.8	1.0	8424103
Dissolved Selenium (Se)	ug/L	<0.10	0.10	8424103
Dissolved Silicon (Si)	ug/L	3370	100	8424103
Dissolved Silver (Ag)	ug/L	<0.020	0.020	8424103
Dissolved Strontium (Sr)	ug/L	32.5	1.0	8424103
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	8424103
Dissolved Tin (Sn)	ug/L	<5.0	5.0	8424103
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	8424103
Dissolved Uranium (U)	ug/L	2.10	0.10	8424103
Dissolved Vanadium (V)	ug/L	<5.0	5.0	8424103
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	8424103
RDL = Reportable Detection Limit				

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AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME DISS. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR7250		
Sampling Date		2016/10/02 11:00		
COC Number		506926-01-01		
	UNITS	**DUPLICATE PC**	**RDL**	**QC Batch**
Dissolved Zirconium (Zr)	ug/L	<0.50	0.50	8424103
Dissolved Calcium (Ca)	mg/L	10.5	0.050	8422517
Dissolved Magnesium (Mg)	mg/L	4.41	0.050	8422517
Dissolved Potassium (K)	mg/L	0.598	0.050	8422517
Dissolved Sodium (Na)	mg/L	1.96	0.050	8422517
Dissolved Sulphur (S)	mg/L	<3.0	3.0	8422517
RDL = Reportable Detection Limit				

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Maxxam Job #: B687579
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR7245	PR7246	PR7247	PR7248		PR7249		
Sampling Date		2016/10/02 10:45	2016/10/02 10:05	2016/10/02 17:00	2016/10/02 11:45		2016/10/02 12:00		
COC Number		506926-01-01	506926-01-01	506926-01-01	506926-01-01		506926-01-01		
	UNITS	PC-1	PC-2	PC-5	PC-6	QC Batch	FIELD BLANK PC	RDL	QC Batch
Calculated Parameters									
Total Hardness (CaCO3)	mg/L	43.1	46.8	61.5	45.8	8422604	<0.50	0.50	8422604
Elements									
Total Mercury (Hg)	ug/L	<0.010	<0.010	<0.010	<0.010	8428812	<0.010	0.010	8428812
Total Metals by ICPMS									
Total Aluminum (Al)	ug/L	101	113	97.2	106	8424835	<3.0	3.0	8424973
Total Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	<0.50	8424835	<0.50	0.50	8424973
Total Arsenic (As)	ug/L	0.95	0.90	0.75	0.95	8424835	<0.10	0.10	8424973
Total Barium (Ba)	ug/L	16.6	17.5	18.3	17.6	8424835	<1.0	1.0	8424973
Total Beryllium (Be)	ug/L	<0.10	<0.10	<0.10	<0.10	8424835	<0.10	0.10	8424973
Total Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	8424835	<1.0	1.0	8424973
Total Boron (B)	ug/L	<50	<50	<50	<50	8424835	<50	50	8424973
Total Cadmium (Cd)	ug/L	0.015	0.023	<0.010	0.017	8424835	<0.010	0.010	8424973
Total Chromium (Cr)	ug/L	<1.0	<1.0	1.7	<1.0	8424835	<1.0	1.0	8424973
Total Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	<0.50	8424835	<0.50	0.50	8424973
Total Copper (Cu)	ug/L	1.96	1.88	1.54	1.74	8424835	<0.50	0.50	8424973
Total Iron (Fe)	ug/L	173	163	139	171	8424835	<10	10	8424973
Total Lead (Pb)	ug/L	<0.20	<0.20	<0.20	<0.20	8424835	<0.20	0.20	8424973
Total Lithium (Li)	ug/L	<5.0	<5.0	<5.0	<5.0	8424835	<5.0	5.0	8424973
Total Manganese (Mn)	ug/L	9.2	7.6	5.9	7.2	8424835	<1.0	1.0	8424973
Total Molybdenum (Mo)	ug/L	2.5	2.4	2.2	2.5	8424835	<1.0	1.0	8424973
Total Nickel (Ni)	ug/L	3.5	3.6	3.2	3.6	8424835	<1.0	1.0	8424973
Total Selenium (Se)	ug/L	0.12	0.10	<0.10	<0.10	8424835	<0.10	0.10	8424973
Total Silicon (Si)	ug/L	3640	3870	4030	3800	8424835	<100	100	8424973
Total Silver (Ag)	ug/L	0.027	<0.020	<0.020	<0.020	8424835	<0.020	0.020	8424973
Total Strontium (Sr)	ug/L	30.4	33.0	40.7	32.5	8424835	<1.0	1.0	8424973
Total Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	8424835	<0.050	0.050	8424973
Total Tin (Sn)	ug/L	<5.0	<5.0	<5.0	<5.0	8424835	<5.0	5.0	8424973
Total Titanium (Ti)	ug/L	<5.0	8.1	<5.0	<5.0	8424835	<5.0	5.0	8424973
Total Uranium (U)	ug/L	2.19	2.06	2.02	2.24	8424835	<0.10	0.10	8424973
Total Vanadium (V)	ug/L	<5.0	<5.0	<5.0	<5.0	8424835	<5.0	5.0	8424973
Total Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	8424835	<5.0	5.0	8424973
RDL = Reportable Detection Limit									

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Maxxam Job #: B687579
Report Date: 2016/10/12

AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR7245	PR7246	PR7247	PR7248		PR7249		
Sampling Date		2016/10/02 10:45	2016/10/02 10:05	2016/10/02 17:00	2016/10/02 11:45		2016/10/02 12:00		
COC Number		506926-01-01	506926-01-01	506926-01-01	506926-01-01		506926-01-01		
	UNITS	**PC-1**	**PC-2**	**PC-5**	**PC-6**	**QC Batch**	**FIELD BLANK PC**	**RDL**	**QC Batch**
Total Zirconium (Zr)	ug/L	<0.50	<0.50	<0.50	<0.50	8424835	<0.50	0.50	8424973
Total Calcium (Ca)	mg/L	10.5	11.4	15.1	11.0	8422518	<0.050	0.050	8422518
Total Magnesium (Mg)	mg/L	4.09	4.48	5.76	4.44	8422518	<0.050	0.050	8422518
Total Potassium (K)	mg/L	0.579	0.577	0.581	0.595	8422518	<0.050	0.050	8422518
Total Sodium (Na)	mg/L	1.62	1.65	1.62	1.70	8422518	<0.050	0.050	8422518
Total Sulphur (S)	mg/L	<3.0	<3.0	<3.0	<3.0	8422518	<3.0	3.0	8422518
RDL = Reportable Detection Limit									

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AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR7250		
Sampling Date		2016/10/02 11:00		
COC Number		506926-01-01		
	UNITS	DUPLICATE PC	RDL	QC Batch
Calculated Parameters				
Total Hardness (CaCO3)	mg/L	46.8	0.50	8422604
Elements				
Total Mercury (Hg)	ug/L	<0.010	0.010	8428812
Total Metals by ICPMS				
Total Aluminum (Al)	ug/L	138	3.0	8424835
Total Antimony (Sb)	ug/L	<0.50	0.50	8424835
Total Arsenic (As)	ug/L	0.95	0.10	8424835
Total Barium (Ba)	ug/L	17.9	1.0	8424835
Total Beryllium (Be)	ug/L	<0.10	0.10	8424835
Total Bismuth (Bi)	ug/L	<1.0	1.0	8424835
Total Boron (B)	ug/L	<50	50	8424835
Total Cadmium (Cd)	ug/L	0.021	0.010	8424835
Total Chromium (Cr)	ug/L	<1.0	1.0	8424835
Total Cobalt (Co)	ug/L	<0.50	0.50	8424835
Total Copper (Cu)	ug/L	1.89	0.50	8424835
Total Iron (Fe)	ug/L	190	10	8424835
Total Lead (Pb)	ug/L	<0.20	0.20	8424835
Total Lithium (Li)	ug/L	<5.0	5.0	8424835
Total Manganese (Mn)	ug/L	7.7	1.0	8424835
Total Molybdenum (Mo)	ug/L	2.5	1.0	8424835
Total Nickel (Ni)	ug/L	3.8	1.0	8424835
Total Selenium (Se)	ug/L	<0.10	0.10	8424835
Total Silicon (Si)	ug/L	3980	100	8424835
Total Silver (Ag)	ug/L	<0.020	0.020	8424835
Total Strontium (Sr)	ug/L	33.9	1.0	8424835
Total Thallium (Tl)	ug/L	<0.050	0.050	8424835
Total Tin (Sn)	ug/L	<5.0	5.0	8424835
Total Titanium (Ti)	ug/L	5.5	5.0	8424835
Total Uranium (U)	ug/L	2.27	0.10	8424835
Total Vanadium (V)	ug/L	<5.0	5.0	8424835
Total Zinc (Zn)	ug/L	<5.0	5.0	8424835
RDL = Reportable Detection Limit				

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AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

CSR/CCME TOT. METALS IN WATER W/ CV HG (WATER)

Maxxam ID		PR7250		
Sampling Date		2016/10/02 11:00		
COC Number		506926-01-01		
	UNITS	**DUPLICATE PC**	**RDL**	**QC Batch**
Total Zirconium (Zr)	ug/L	<0.50	0.50	8424835
Total Calcium (Ca)	mg/L	11.4	0.050	8422518
Total Magnesium (Mg)	mg/L	4.48	0.050	8422518
Total Potassium (K)	mg/L	0.623	0.050	8422518
Total Sodium (Na)	mg/L	1.78	0.050	8422518
Total Sulphur (S)	mg/L	<3.0	3.0	8422518
RDL = Reportable Detection Limit				

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GENERAL COMMENTS

Results relate only to the items tested.

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AFRICAN QUEEN MINES LTD.
Client Project #: YJ
Sampler Initials: LD

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8423101	IC4	Matrix Spike	Dissolved Phosphorus (P)	2016/10/05		101	%	80 - 120
8423101	IC4	Spiked Blank	Dissolved Phosphorus (P)	2016/10/05		102	%	80 - 120
8423101	IC4	Method Blank	Dissolved Phosphorus (P)	2016/10/05	<0.0020		mg/L	
8423101	IC4	RPD	Dissolved Phosphorus (P)	2016/10/05	NC		%	20
8423130	CGP	Spiked Blank	Turbidity	2016/10/05		101	%	80 - 120
8423130	CGP	Method Blank	Turbidity	2016/10/05	<0.10		NTU	
8423130	CGP	RPD	Turbidity	2016/10/05	1.8		%	20
8423375	IC4	Matrix Spike	Orthophosphate (P)	2016/10/05		96	%	80 - 120
8423375	IC4	Spiked Blank	Orthophosphate (P)	2016/10/05		95	%	80 - 120
8423375	IC4	Method Blank	Orthophosphate (P)	2016/10/05	<0.0050		mg/L	
8423375	IC4	RPD	Orthophosphate (P)	2016/10/05	NC		%	20
8423538	WAY	Matrix Spike	Alkalinity (Total as CaCO3)	2016/10/06		NC	%	80 - 120
8423538	WAY	Spiked Blank	Alkalinity (Total as CaCO3)	2016/10/06		98	%	80 - 120
8423538	WAY	Method Blank	Alkalinity (Total as CaCO3)	2016/10/06	<0.50		mg/L	
			Alkalinity (PP as CaCO3)	2016/10/06	<0.50		mg/L	
			Bicarbonate (HCO3)	2016/10/06	<0.50		mg/L	
			Carbonate (CO3)	2016/10/06	<0.50		mg/L	
			Hydroxide (OH)	2016/10/06	<0.50		mg/L	
8423538	WAY	RPD	Alkalinity (Total as CaCO3)	2016/10/06	2.7		%	20
			Alkalinity (PP as CaCO3)	2016/10/06	3.4		%	20
			Bicarbonate (HCO3)	2016/10/06	67 (1)		%	20
			Carbonate (CO3)	2016/10/06	3.4		%	20
			Hydroxide (OH)	2016/10/06	NC		%	20
8423541	WAY	Spiked Blank	pH	2016/10/06		102	%	97 - 103
8423541	WAY	RPD	pH	2016/10/06	0		%	N/A
8423542	WAY	Spiked Blank	Conductivity	2016/10/06		100	%	80 - 120
8423542	WAY	Method Blank	Conductivity	2016/10/06	<1.0		uS/cm	
8423542	WAY	RPD	Conductivity	2016/10/06	0		%	20
8423552	WAY	Matrix Spike	Alkalinity (Total as CaCO3)	2016/10/06		NC	%	80 - 120
8423552	WAY	Spiked Blank	Alkalinity (Total as CaCO3)	2016/10/06		99	%	80 - 120
8423552	WAY	Method Blank	Alkalinity (Total as CaCO3)	2016/10/06	0.60, RDL=0.50		mg/L	
			Alkalinity (PP as CaCO3)	2016/10/06	<0.50		mg/L	
			Bicarbonate (HCO3)	2016/10/06	0.73, RDL=0.50		mg/L	
			Carbonate (CO3)	2016/10/06	<0.50		mg/L	
			Hydroxide (OH)	2016/10/06	<0.50		mg/L	
8423552	WAY	RPD [PR7248-01]	Alkalinity (Total as CaCO3)	2016/10/06	5.6		%	20
			Alkalinity (PP as CaCO3)	2016/10/06	NC		%	20
			Bicarbonate (HCO3)	2016/10/06	5.6		%	20
			Carbonate (CO3)	2016/10/06	NC		%	20
			Hydroxide (OH)	2016/10/06	NC		%	20
8423553	WAY	Spiked Blank	pH	2016/10/06		102	%	97 - 103
8423553	WAY	RPD [PR7248-01]	pH	2016/10/06	0.51		%	N/A
8423554	WAY	Spiked Blank	Conductivity	2016/10/06		101	%	80 - 120
8423554	WAY	Method Blank	Conductivity	2016/10/06	<1.0		uS/cm	
8423554	WAY	RPD [PR7248-01]	Conductivity	2016/10/06	0.70		%	20
8423574	IC4	Matrix Spike [PR7248-01]	Orthophosphate (P)	2016/10/05		90	%	80 - 120
8423574	IC4	Spiked Blank	Orthophosphate (P)	2016/10/05		100	%	80 - 120
8423574	IC4	Method Blank	Orthophosphate (P)	2016/10/05	<0.0050		mg/L	
8423574	IC4	RPD [PR7248-01]	Orthophosphate (P)	2016/10/05	NC		%	20
8424103	JT3	Matrix Spike [PR7245-05]	Dissolved Aluminum (Al)	2016/10/07		101	%	80 - 120
			Dissolved Antimony (Sb)	2016/10/07		103	%	80 - 120

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AFRICAN QUEEN MINES LTD.
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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Arsenic (As)	2016/10/07		104	%	80 - 120
			Dissolved Barium (Ba)	2016/10/07		NC	%	80 - 120
			Dissolved Beryllium (Be)	2016/10/07		103	%	80 - 120
			Dissolved Bismuth (Bi)	2016/10/07		101	%	80 - 120
			Dissolved Boron (B)	2016/10/07		106	%	80 - 120
			Dissolved Cadmium (Cd)	2016/10/07		101	%	80 - 120
			Dissolved Chromium (Cr)	2016/10/07		98	%	80 - 120
			Dissolved Cobalt (Co)	2016/10/07		99	%	80 - 120
			Dissolved Copper (Cu)	2016/10/07		95	%	80 - 120
			Dissolved Iron (Fe)	2016/10/07		105	%	80 - 120
			Dissolved Lead (Pb)	2016/10/07		96	%	80 - 120
			Dissolved Lithium (Li)	2016/10/07		102	%	80 - 120
			Dissolved Manganese (Mn)	2016/10/07		100	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/10/07		NC	%	80 - 120
			Dissolved Nickel (Ni)	2016/10/07		99	%	80 - 120
			Dissolved Selenium (Se)	2016/10/07		106	%	80 - 120
			Dissolved Silver (Ag)	2016/10/07		102	%	80 - 120
			Dissolved Strontium (Sr)	2016/10/07		NC	%	80 - 120
			Dissolved Thallium (Tl)	2016/10/07		105	%	80 - 120
			Dissolved Tin (Sn)	2016/10/07		105	%	80 - 120
			Dissolved Titanium (Ti)	2016/10/07		102	%	80 - 120
			Dissolved Uranium (U)	2016/10/07		96	%	80 - 120
			Dissolved Vanadium (V)	2016/10/07		97	%	80 - 120
			Dissolved Zinc (Zn)	2016/10/07		105	%	80 - 120
8424103	JT3	Spiked Blank	Dissolved Aluminum (Al)	2016/10/07		102	%	80 - 120
			Dissolved Antimony (Sb)	2016/10/07		99	%	80 - 120
			Dissolved Arsenic (As)	2016/10/07		103	%	80 - 120
			Dissolved Barium (Ba)	2016/10/07		95	%	80 - 120
			Dissolved Beryllium (Be)	2016/10/07		92	%	80 - 120
			Dissolved Bismuth (Bi)	2016/10/07		98	%	80 - 120
			Dissolved Boron (B)	2016/10/07		106	%	80 - 120
			Dissolved Cadmium (Cd)	2016/10/07		97	%	80 - 120
			Dissolved Chromium (Cr)	2016/10/07		98	%	80 - 120
			Dissolved Cobalt (Co)	2016/10/07		99	%	80 - 120
			Dissolved Copper (Cu)	2016/10/07		98	%	80 - 120
			Dissolved Iron (Fe)	2016/10/07		115	%	80 - 120
			Dissolved Lead (Pb)	2016/10/07		96	%	80 - 120
			Dissolved Lithium (Li)	2016/10/07		92	%	80 - 120
			Dissolved Manganese (Mn)	2016/10/07		101	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/10/07		98	%	80 - 120
			Dissolved Nickel (Ni)	2016/10/07		100	%	80 - 120
			Dissolved Selenium (Se)	2016/10/07		105	%	80 - 120
			Dissolved Silver (Ag)	2016/10/07		104	%	80 - 120
			Dissolved Strontium (Sr)	2016/10/07		97	%	80 - 120
			Dissolved Thallium (Tl)	2016/10/07		102	%	80 - 120
			Dissolved Tin (Sn)	2016/10/07		99	%	80 - 120
			Dissolved Titanium (Ti)	2016/10/07		90	%	80 - 120
			Dissolved Uranium (U)	2016/10/07		94	%	80 - 120
			Dissolved Vanadium (V)	2016/10/07		103	%	80 - 120
			Dissolved Zinc (Zn)	2016/10/07		104	%	80 - 120
8424103	JT3	Method Blank	Dissolved Aluminum (Al)	2016/10/07	<3.0		ug/L	
			Dissolved Antimony (Sb)	2016/10/07	<0.50		ug/L	
			Dissolved Arsenic (As)	2016/10/07	<0.10		ug/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Barium (Ba)	2016/10/07	<1.0		ug/L	
			Dissolved Beryllium (Be)	2016/10/07	<0.10		ug/L	
			Dissolved Bismuth (Bi)	2016/10/07	<1.0		ug/L	
			Dissolved Boron (B)	2016/10/07	<50		ug/L	
			Dissolved Cadmium (Cd)	2016/10/07	<0.010		ug/L	
			Dissolved Chromium (Cr)	2016/10/07	<1.0		ug/L	
			Dissolved Cobalt (Co)	2016/10/07	<0.50		ug/L	
			Dissolved Copper (Cu)	2016/10/07	<0.20		ug/L	
			Dissolved Iron (Fe)	2016/10/07	<5.0		ug/L	
			Dissolved Lead (Pb)	2016/10/07	<0.20		ug/L	
			Dissolved Lithium (Li)	2016/10/07	<5.0		ug/L	
			Dissolved Manganese (Mn)	2016/10/07	<1.0		ug/L	
			Dissolved Molybdenum (Mo)	2016/10/07	<1.0		ug/L	
			Dissolved Nickel (Ni)	2016/10/07	<1.0		ug/L	
			Dissolved Selenium (Se)	2016/10/07	<0.10		ug/L	
			Dissolved Silicon (Si)	2016/10/07	<100		ug/L	
			Dissolved Silver (Ag)	2016/10/07	<0.020		ug/L	
			Dissolved Strontium (Sr)	2016/10/07	<1.0		ug/L	
			Dissolved Thallium (Tl)	2016/10/07	<0.050		ug/L	
			Dissolved Tin (Sn)	2016/10/07	<5.0		ug/L	
			Dissolved Titanium (Ti)	2016/10/07	<5.0		ug/L	
			Dissolved Uranium (U)	2016/10/07	<0.10		ug/L	
			Dissolved Vanadium (V)	2016/10/07	<5.0		ug/L	
			Dissolved Zinc (Zn)	2016/10/07	<5.0		ug/L	
			Dissolved Zirconium (Zr)	2016/10/07	<0.50		ug/L	
8424103	JT3	RPD [PR7245-05]	Dissolved Aluminum (Al)	2016/10/07	NC		%	20
			Dissolved Antimony (Sb)	2016/10/07	NC		%	20
			Dissolved Arsenic (As)	2016/10/07	0.17		%	20
			Dissolved Barium (Ba)	2016/10/07	1.1		%	20
			Dissolved Beryllium (Be)	2016/10/07	NC		%	20
			Dissolved Bismuth (Bi)	2016/10/07	NC		%	20
			Dissolved Boron (B)	2016/10/07	NC		%	20
			Dissolved Cadmium (Cd)	2016/10/07	NC		%	20
			Dissolved Chromium (Cr)	2016/10/07	NC		%	20
			Dissolved Cobalt (Co)	2016/10/07	NC		%	20
			Dissolved Copper (Cu)	2016/10/07	NC		%	20
			Dissolved Iron (Fe)	2016/10/07	NC		%	20
			Dissolved Lead (Pb)	2016/10/07	NC		%	20
			Dissolved Lithium (Li)	2016/10/07	NC		%	20
			Dissolved Manganese (Mn)	2016/10/07	NC		%	20
			Dissolved Molybdenum (Mo)	2016/10/07	NC		%	20
			Dissolved Nickel (Ni)	2016/10/07	NC		%	20
			Dissolved Selenium (Se)	2016/10/07	NC		%	20
			Dissolved Silicon (Si)	2016/10/07	0.82		%	20
			Dissolved Silver (Ag)	2016/10/07	NC		%	20
			Dissolved Strontium (Sr)	2016/10/07	3.6		%	20
			Dissolved Thallium (Tl)	2016/10/07	NC		%	20
			Dissolved Tin (Sn)	2016/10/07	NC		%	20
			Dissolved Titanium (Ti)	2016/10/07	NC		%	20
			Dissolved Uranium (U)	2016/10/07	1.9		%	20
			Dissolved Vanadium (V)	2016/10/07	NC		%	20
			Dissolved Zinc (Zn)	2016/10/07	NC		%	20
			Dissolved Zirconium (Zr)	2016/10/07	NC		%	20

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8424302	CGP	Matrix Spike	Total Suspended Solids	2016/10/07		104	%	80 - 120
8424302	CGP	Spiked Blank	Total Suspended Solids	2016/10/07		104	%	80 - 120
8424302	CGP	Method Blank	Total Suspended Solids	2016/10/07	<4.0		mg/L	
8424302	CGP	RPD	Total Suspended Solids	2016/10/07	NC		%	20
8424572	IW1	Matrix Spike	Nitrate plus Nitrite (N)	2016/10/05		107	%	80 - 120
8424572	IW1	Spiked Blank	Nitrate plus Nitrite (N)	2016/10/05		104	%	80 - 120
8424572	IW1	Method Blank	Nitrate plus Nitrite (N)	2016/10/05	<0.020		mg/L	
8424572	IW1	RPD	Nitrate plus Nitrite (N)	2016/10/05	NC		%	25
8424573	IW1	Matrix Spike	Nitrite (N)	2016/10/05		NC	%	80 - 120
8424573	IW1	Spiked Blank	Nitrite (N)	2016/10/05		94	%	80 - 120
8424573	IW1	Method Blank	Nitrite (N)	2016/10/05	<0.0050		mg/L	
8424573	IW1	RPD	Nitrite (N)	2016/10/05	NC		%	20
8424576	IW1	Spiked Blank	Nitrate plus Nitrite (N)	2016/10/05		103	%	80 - 120
8424576	IW1	Method Blank	Nitrate plus Nitrite (N)	2016/10/05	<0.020		mg/L	
8424577	IW1	Spiked Blank	Nitrite (N)	2016/10/05		95	%	80 - 120
8424577	IW1	Method Blank	Nitrite (N)	2016/10/05	<0.0050		mg/L	
8424769	BB3	Matrix Spike [PR7247-01]	Dissolved Chloride (Cl)	2016/10/06		108	%	80 - 120
8424769	BB3	Spiked Blank	Dissolved Chloride (Cl)	2016/10/06		95	%	80 - 120
8424769	BB3	Method Blank	Dissolved Chloride (Cl)	2016/10/06	<0.50		mg/L	
8424769	BB3	RPD [PR7247-01]	Dissolved Chloride (Cl)	2016/10/06	NC		%	20
8424769	BB3	RPD [PR7250-01]	Dissolved Chloride (Cl)	2016/10/06	NC		%	20
8424775	BB3	Matrix Spike [PR7247-01]	Dissolved Sulphate (SO4)	2016/10/06		110	%	80 - 120
8424775	BB3	Spiked Blank	Dissolved Sulphate (SO4)	2016/10/06		93	%	80 - 120
8424775	BB3	Method Blank	Dissolved Sulphate (SO4)	2016/10/06	<0.50		mg/L	
8424775	BB3	RPD [PR7247-01]	Dissolved Sulphate (SO4)	2016/10/06	0.90		%	20
8424775	BB3	RPD [PR7250-01]	Dissolved Sulphate (SO4)	2016/10/06	0.97		%	20
8424835	AD5	Matrix Spike	Total Aluminum (Al)	2016/10/06		NC	%	80 - 120
			Total Antimony (Sb)	2016/10/06		104	%	80 - 120
			Total Arsenic (As)	2016/10/06		110	%	80 - 120
			Total Barium (Ba)	2016/10/06		NC	%	80 - 120
			Total Beryllium (Be)	2016/10/06		106	%	80 - 120
			Total Bismuth (Bi)	2016/10/06		105	%	80 - 120
			Total Boron (B)	2016/10/06		111	%	80 - 120
			Total Cadmium (Cd)	2016/10/06		NC	%	80 - 120
			Total Chromium (Cr)	2016/10/06		104	%	80 - 120
			Total Cobalt (Co)	2016/10/06		NC	%	80 - 120
			Total Copper (Cu)	2016/10/06		NC	%	80 - 120
			Total Iron (Fe)	2016/10/06		NC	%	80 - 120
			Total Lead (Pb)	2016/10/06		105	%	80 - 120
			Total Lithium (Li)	2016/10/06		NC	%	80 - 120
			Total Manganese (Mn)	2016/10/06		NC	%	80 - 120
			Total Molybdenum (Mo)	2016/10/06		106	%	80 - 120
			Total Nickel (Ni)	2016/10/06		NC	%	80 - 120
			Total Selenium (Se)	2016/10/06		NC	%	80 - 120
			Total Silver (Ag)	2016/10/06		90	%	80 - 120
			Total Strontium (Sr)	2016/10/06		NC	%	80 - 120
			Total Thallium (Tl)	2016/10/06		85	%	80 - 120
			Total Tin (Sn)	2016/10/06		102	%	80 - 120
			Total Titanium (Ti)	2016/10/06		NC	%	80 - 120
			Total Uranium (U)	2016/10/06		NC	%	80 - 120
			Total Vanadium (V)	2016/10/06		104	%	80 - 120
			Total Zinc (Zn)	2016/10/06		NC	%	80 - 120
8424835	AD5	Spiked Blank	Total Aluminum (Al)	2016/10/06		119	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Antimony (Sb)	2016/10/06		103	%	80 - 120
			Total Arsenic (As)	2016/10/06		104	%	80 - 120
			Total Barium (Ba)	2016/10/06		102	%	80 - 120
			Total Beryllium (Be)	2016/10/06		106	%	80 - 120
			Total Bismuth (Bi)	2016/10/06		100	%	80 - 120
			Total Boron (B)	2016/10/06		106	%	80 - 120
			Total Cadmium (Cd)	2016/10/06		105	%	80 - 120
			Total Chromium (Cr)	2016/10/06		103	%	80 - 120
			Total Cobalt (Co)	2016/10/06		100	%	80 - 120
			Total Copper (Cu)	2016/10/06		106	%	80 - 120
			Total Iron (Fe)	2016/10/06		108	%	80 - 120
			Total Lead (Pb)	2016/10/06		99	%	80 - 120
			Total Lithium (Li)	2016/10/06		98	%	80 - 120
			Total Manganese (Mn)	2016/10/06		103	%	80 - 120
			Total Molybdenum (Mo)	2016/10/06		102	%	80 - 120
			Total Nickel (Ni)	2016/10/06		104	%	80 - 120
			Total Selenium (Se)	2016/10/06		120	%	80 - 120
			Total Silver (Ag)	2016/10/06		105	%	80 - 120
			Total Strontium (Sr)	2016/10/06		93	%	80 - 120
			Total Thallium (Tl)	2016/10/06		84	%	80 - 120
			Total Tin (Sn)	2016/10/06		93	%	80 - 120
			Total Titanium (Ti)	2016/10/06		101	%	80 - 120
			Total Uranium (U)	2016/10/06		101	%	80 - 120
			Total Vanadium (V)	2016/10/06		100	%	80 - 120
			Total Zinc (Zn)	2016/10/06		116	%	80 - 120
8424835	AD5	Method Blank	Total Aluminum (Al)	2016/10/06	4.3, RDL=3.0		ug/L	
			Total Antimony (Sb)	2016/10/06	<0.50		ug/L	
			Total Arsenic (As)	2016/10/06	<0.10		ug/L	
			Total Barium (Ba)	2016/10/06	<1.0		ug/L	
			Total Beryllium (Be)	2016/10/06	<0.10		ug/L	
			Total Bismuth (Bi)	2016/10/06	<1.0		ug/L	
			Total Boron (B)	2016/10/06	<50		ug/L	
			Total Cadmium (Cd)	2016/10/06	0.010, RDL=0.010		ug/L	
			Total Chromium (Cr)	2016/10/06	<1.0		ug/L	
			Total Cobalt (Co)	2016/10/06	<0.50		ug/L	
			Total Copper (Cu)	2016/10/06	<0.50		ug/L	
			Total Iron (Fe)	2016/10/06	<10		ug/L	
			Total Lead (Pb)	2016/10/06	<0.20		ug/L	
			Total Lithium (Li)	2016/10/06	<5.0		ug/L	
			Total Manganese (Mn)	2016/10/06	<1.0		ug/L	
			Total Molybdenum (Mo)	2016/10/06	<1.0		ug/L	
			Total Nickel (Ni)	2016/10/06	<1.0		ug/L	
			Total Selenium (Se)	2016/10/06	<0.10		ug/L	
			Total Silicon (Si)	2016/10/06	<100		ug/L	
			Total Silver (Ag)	2016/10/06	<0.020		ug/L	
			Total Strontium (Sr)	2016/10/06	<1.0		ug/L	
			Total Thallium (Tl)	2016/10/06	<0.050		ug/L	
			Total Tin (Sn)	2016/10/06	<5.0		ug/L	
			Total Titanium (Ti)	2016/10/06	<5.0		ug/L	
			Total Uranium (U)	2016/10/06	<0.10		ug/L	
			Total Vanadium (V)	2016/10/06	<5.0		ug/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Zinc (Zn)	2016/10/06	<5.0		ug/L	
			Total Zirconium (Zr)	2016/10/06	<0.50		ug/L	
8424835	AD5	RPD	Total Aluminum (Al)	2016/10/06	0.89		%	20
			Total Antimony (Sb)	2016/10/06	NC		%	20
			Total Arsenic (As)	2016/10/06	NC		%	20
			Total Barium (Ba)	2016/10/06	0.66		%	20
			Total Beryllium (Be)	2016/10/06	1.5		%	20
			Total Bismuth (Bi)	2016/10/06	NC		%	20
			Total Boron (B)	2016/10/06	NC		%	20
			Total Cadmium (Cd)	2016/10/06	0.17		%	20
			Total Chromium (Cr)	2016/10/06	NC		%	20
			Total Cobalt (Co)	2016/10/06	1.2		%	20
			Total Copper (Cu)	2016/10/06	0.43		%	20
			Total Iron (Fe)	2016/10/06	7.9		%	20
			Total Lead (Pb)	2016/10/06	NC		%	20
			Total Lithium (Li)	2016/10/06	1.7		%	20
			Total Manganese (Mn)	2016/10/06	1.5		%	20
			Total Molybdenum (Mo)	2016/10/06	NC		%	20
			Total Nickel (Ni)	2016/10/06	0.87		%	20
			Total Selenium (Se)	2016/10/06	1.7		%	20
			Total Silicon (Si)	2016/10/06	3.2		%	20
			Total Silver (Ag)	2016/10/06	14		%	20
			Total Strontium (Sr)	2016/10/06	1.9		%	20
			Total Thallium (Tl)	2016/10/06	NC		%	20
			Total Tin (Sn)	2016/10/06	NC		%	20
			Total Titanium (Ti)	2016/10/06	NC		%	20
			Total Uranium (U)	2016/10/06	0.19		%	20
			Total Vanadium (V)	2016/10/06	NC		%	20
			Total Zinc (Zn)	2016/10/06	0.30		%	20
			Total Zirconium (Zr)	2016/10/06	NC		%	20
8424857	DC6	Matrix Spike	Total Ammonia (N)	2016/10/06		NC	%	80 - 120
8424857	DC6	Spiked Blank	Total Ammonia (N)	2016/10/06		101	%	80 - 120
8424857	DC6	Method Blank	Total Ammonia (N)	2016/10/06	<0.0050		mg/L	
8424857	DC6	RPD	Total Ammonia (N)	2016/10/06	1.4		%	20
8424864	DC6	Matrix Spike	Total Ammonia (N)	2016/10/06		NC	%	80 - 120
8424864	DC6	Spiked Blank	Total Ammonia (N)	2016/10/06		101	%	80 - 120
8424864	DC6	Method Blank	Total Ammonia (N)	2016/10/06	<0.0050		mg/L	
8424864	DC6	RPD	Total Ammonia (N)	2016/10/06	12		%	20
8424973	GS2	Matrix Spike	Total Aluminum (Al)	2016/10/07		107	%	80 - 120
			Total Antimony (Sb)	2016/10/07		101	%	80 - 120
			Total Arsenic (As)	2016/10/07		104	%	80 - 120
			Total Barium (Ba)	2016/10/07		92	%	80 - 120
			Total Beryllium (Be)	2016/10/07		106	%	80 - 120
			Total Bismuth (Bi)	2016/10/07		98	%	80 - 120
			Total Boron (B)	2016/10/07		96	%	80 - 120
			Total Cadmium (Cd)	2016/10/07		106	%	80 - 120
			Total Chromium (Cr)	2016/10/07		100	%	80 - 120
			Total Cobalt (Co)	2016/10/07		103	%	80 - 120
			Total Copper (Cu)	2016/10/07		103	%	80 - 120
			Total Iron (Fe)	2016/10/07		109	%	80 - 120
			Total Lead (Pb)	2016/10/07		90	%	80 - 120
			Total Lithium (Li)	2016/10/07		99	%	80 - 120
			Total Manganese (Mn)	2016/10/07		103	%	80 - 120

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Molybdenum (Mo)	2016/10/07		93	%	80 - 120
			Total Nickel (Ni)	2016/10/07		104	%	80 - 120
			Total Selenium (Se)	2016/10/07		113	%	80 - 120
			Total Silver (Ag)	2016/10/07		100	%	80 - 120
			Total Strontium (Sr)	2016/10/07		88	%	80 - 120
			Total Thallium (Tl)	2016/10/07		91	%	80 - 120
			Total Tin (Sn)	2016/10/07		98	%	80 - 120
			Total Titanium (Ti)	2016/10/07		104	%	80 - 120
			Total Uranium (U)	2016/10/07		89	%	80 - 120
			Total Vanadium (V)	2016/10/07		105	%	80 - 120
			Total Zinc (Zn)	2016/10/07		127 (1)	%	80 - 120
8424973	GS2	Spiked Blank	Total Aluminum (Al)	2016/10/07		108	%	80 - 120
			Total Antimony (Sb)	2016/10/07		104	%	80 - 120
			Total Arsenic (As)	2016/10/07		109	%	80 - 120
			Total Barium (Ba)	2016/10/07		106	%	80 - 120
			Total Beryllium (Be)	2016/10/07		103	%	80 - 120
			Total Bismuth (Bi)	2016/10/07		102	%	80 - 120
			Total Boron (B)	2016/10/07		94	%	80 - 120
			Total Cadmium (Cd)	2016/10/07		103	%	80 - 120
			Total Chromium (Cr)	2016/10/07		104	%	80 - 120
			Total Cobalt (Co)	2016/10/07		105	%	80 - 120
			Total Copper (Cu)	2016/10/07		104	%	80 - 120
			Total Iron (Fe)	2016/10/07		122 (2)	%	80 - 120
			Total Lead (Pb)	2016/10/07		92	%	80 - 120
			Total Lithium (Li)	2016/10/07		103	%	80 - 120
			Total Manganese (Mn)	2016/10/07		101	%	80 - 120
			Total Molybdenum (Mo)	2016/10/07		100	%	80 - 120
			Total Nickel (Ni)	2016/10/07		110	%	80 - 120
			Total Selenium (Se)	2016/10/07		111	%	80 - 120
			Total Silver (Ag)	2016/10/07		109	%	80 - 120
			Total Strontium (Sr)	2016/10/07		102	%	80 - 120
			Total Thallium (Tl)	2016/10/07		102	%	80 - 120
			Total Tin (Sn)	2016/10/07		109	%	80 - 120
			Total Titanium (Ti)	2016/10/07		106	%	80 - 120
			Total Uranium (U)	2016/10/07		90	%	80 - 120
			Total Vanadium (V)	2016/10/07		101	%	80 - 120
			Total Zinc (Zn)	2016/10/07		111	%	80 - 120
8424973	GS2	Method Blank	Total Aluminum (Al)	2016/10/07	<3.0		ug/L	
			Total Antimony (Sb)	2016/10/07	<0.50		ug/L	
			Total Arsenic (As)	2016/10/07	<0.10		ug/L	
			Total Barium (Ba)	2016/10/07	<1.0		ug/L	
			Total Beryllium (Be)	2016/10/07	<0.10		ug/L	
			Total Bismuth (Bi)	2016/10/07	<1.0		ug/L	
			Total Boron (B)	2016/10/07	<50		ug/L	
			Total Cadmium (Cd)	2016/10/07	<0.010		ug/L	
			Total Chromium (Cr)	2016/10/07	<1.0		ug/L	
			Total Cobalt (Co)	2016/10/07	<0.50		ug/L	
			Total Copper (Cu)	2016/10/07	<0.50		ug/L	
			Total Iron (Fe)	2016/10/07	<10		ug/L	
			Total Lead (Pb)	2016/10/07	<0.20		ug/L	
			Total Lithium (Li)	2016/10/07	<5.0		ug/L	
			Total Manganese (Mn)	2016/10/07	<1.0		ug/L	
			Total Molybdenum (Mo)	2016/10/07	<1.0		ug/L	

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Total Nickel (Ni)	2016/10/07	<1.0		ug/L	
			Total Selenium (Se)	2016/10/07	<0.10		ug/L	
			Total Silicon (Si)	2016/10/07	<100		ug/L	
			Total Silver (Ag)	2016/10/07	<0.020		ug/L	
			Total Strontium (Sr)	2016/10/07	<1.0		ug/L	
			Total Thallium (Tl)	2016/10/07	<0.050		ug/L	
			Total Tin (Sn)	2016/10/07	<5.0		ug/L	
			Total Titanium (Ti)	2016/10/07	<5.0		ug/L	
			Total Uranium (U)	2016/10/07	<0.10		ug/L	
			Total Vanadium (V)	2016/10/07	<5.0		ug/L	
			Total Zinc (Zn)	2016/10/07	<5.0		ug/L	
			Total Zirconium (Zr)	2016/10/07	<0.50		ug/L	
8424973	GS2	RPD	Total Aluminum (Al)	2016/10/07	NC		%	20
			Total Antimony (Sb)	2016/10/07	NC		%	20
			Total Arsenic (As)	2016/10/07	NC		%	20
			Total Barium (Ba)	2016/10/07	NC		%	20
			Total Beryllium (Be)	2016/10/07	NC		%	20
			Total Bismuth (Bi)	2016/10/07	NC		%	20
			Total Boron (B)	2016/10/07	NC		%	20
			Total Cadmium (Cd)	2016/10/07	NC		%	20
			Total Chromium (Cr)	2016/10/07	NC		%	20
			Total Cobalt (Co)	2016/10/07	NC		%	20
			Total Copper (Cu)	2016/10/07	NC		%	20
			Total Iron (Fe)	2016/10/07	NC		%	20
			Total Lead (Pb)	2016/10/07	NC		%	20
			Total Lithium (Li)	2016/10/07	NC		%	20
			Total Manganese (Mn)	2016/10/07	NC		%	20
			Total Molybdenum (Mo)	2016/10/07	NC		%	20
			Total Nickel (Ni)	2016/10/07	NC		%	20
			Total Selenium (Se)	2016/10/07	NC		%	20
			Total Silicon (Si)	2016/10/07	NC		%	20
			Total Silver (Ag)	2016/10/07	NC		%	20
			Total Strontium (Sr)	2016/10/07	NC		%	20
			Total Thallium (Tl)	2016/10/07	NC		%	20
			Total Tin (Sn)	2016/10/07	NC		%	20
			Total Titanium (Ti)	2016/10/07	NC		%	20
			Total Uranium (U)	2016/10/07	NC		%	20
			Total Vanadium (V)	2016/10/07	NC		%	20
			Total Zinc (Zn)	2016/10/07	NC		%	20
			Total Zirconium (Zr)	2016/10/07	NC		%	20
8425180	IC4	Spiked Blank	Dissolved Phosphorus (P)	2016/10/06		110	%	80 - 120
8425180	IC4	Method Blank	Dissolved Phosphorus (P)	2016/10/06	<0.0050		mg/L	
8425180	IC4	RPD	Dissolved Phosphorus (P)	2016/10/06	NC		%	20
8426251	BB3	Matrix Spike	Fluoride (F)	2016/10/07		103	%	80 - 120
8426251	BB3	Spiked Blank	Fluoride (F)	2016/10/07		106	%	80 - 120
8426251	BB3	Method Blank	Fluoride (F)	2016/10/07	<0.010		mg/L	
8426251	BB3	RPD	Fluoride (F)	2016/10/07	NC		%	20
8428763	EL2	Matrix Spike	Dissolved Mercury (Hg)	2016/10/11		92	%	80 - 120
8428763	EL2	Spiked Blank	Dissolved Mercury (Hg)	2016/10/11		91	%	80 - 120
8428763	EL2	Method Blank	Dissolved Mercury (Hg)	2016/10/11	<0.010		ug/L	
8428763	EL2	RPD	Dissolved Mercury (Hg)	2016/10/11	NC		%	20
8428799	EL2	Matrix Spike	Dissolved Mercury (Hg)	2016/10/11		100	%	80 - 120
8428799	EL2	Spiked Blank	Dissolved Mercury (Hg)	2016/10/11		99	%	80 - 120

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
8428799	EL2	Method Blank	Dissolved Mercury (Hg)	2016/10/11	<0.010		ug/L	
8428799	EL2	RPD	Dissolved Mercury (Hg)	2016/10/11	NC		%	20
8428812	EL2	Matrix Spike [PR7249-04]	Total Mercury (Hg)	2016/10/11		92	%	80 - 120
8428812	EL2	Spiked Blank	Total Mercury (Hg)	2016/10/11		97	%	80 - 120
8428812	EL2	Method Blank	Total Mercury (Hg)	2016/10/11	<0.010		ug/L	
8428812	EL2	RPD [PR7249-04]	Total Mercury (Hg)	2016/10/11	NC		%	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Blank Spike outside acceptance criteria (10% of analytes failure allowed).

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Andy Lu, Ph.D., P.Chem., Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Chain Of Custody Record

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INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#12411 AFRICAN QUEEN MINES LTD.	Company Name		Quotation #	B61210	Maxxam Job #	Bottle Order #:
Contact Name	Linda Dandy	Contact Name		P.O. #		B687579	506926
Address	1153 56TH STREET BOX 19040	Address		Project #		Chain Of Custody Record	Project Manager
	DELTA BC V4L 2P8			Project Name	YJ	C#506926-01-01	Veronica De Guzman
Phone	(604) 240-7676 x Fax:	Phone	Fax:	Site #			
Email	lindadandy@telus.net	Email		Sampled By	LINDA DANDY		

Regulatory Criteria

Special Instructions

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to maxxam

Analysis Requested

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT ✓
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number: _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	EC, pH, ALK, F	Cl, SO4, N+N, TURB	TSS	NH4	TOTAL D. PHOS	ORTHOPHOSPHATE	TOTAL METALS W/ CV Hg.	DISSOLVED METALS WITH CV Hg.			# of Bottles	Comments
1		PC-1	OCT 2/16	1045	H_2O	N	Y	✓	✓	✓	✓	✓	✓	✓	✓			8	
2		PC-2		1005		N	Y											8	
3		PC-5		1700		N	Y											8	* NOTE: PHOS BOTTLE – RINSED OUT H_2SO_4 & DID NOT FILTER – LAB TO FILTER & PRESERVE
4		PC-6		1145		N	Y											8	
5		FIELD BLANK PC		1200		N	N											8	
6		DUPLICATE PC		1100		N	Y											8	RECEIVED IN WHITEHORSE BY: Shyono @ 1330 2016-10-03 TEMP: 2 1 3 / 3
7																			
8																			
9																			
10																			

B687579_COC

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Present on Cooler?
Linda Dandy	16/10/03	900	Maurice Berthier	2016/10/04	13:35		☐	22.1	☐ Yes ☐ No

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Maxxam Yellow: Client

Maxxam Analytics International Corporation o/a Maxxam Analytics